

Списък на цитиранията
по научните трудове на проф. д-н Людмил Антонов
спрямо 01.04.2021г.

A.1. <i>Tautomerism – Methods and Theories.</i> L.Antonov (Editor), Wiley-VCH, Weinheim (2014).		
1.	1.	Božič, M., Liu, P., Mathew, A.P., Kokol, V. Enzymatic phosphorylation of cellulose nanofibers to new highly-ions adsorbing, flame-retardant and hydroxyapatite-growth induced natural nanoparticles Cellulose, 21 (4), 2713-2726 (2014).
2.	2.	Ji, Y., Yang, X., Qian, Y. Poly-amidoamine structure characterization: Amide resonance structure of imidic acid (HO-CN) and tertiary ammonium RSC Advances, 4 (90), 49535-49540 (2014).
3.	3.	Saczewski, J., Kedzia, A., Jalińska, A. New derivatives of 4,6-dimethylisoxazolo[3,4-b] pyridin-3(1H)-one: Synthesis, tautomerism, electronic structure and antibacterial activity Heterocyclic Communications, 20 (4), 215-223 (2014).
4.	4.	Bassaco, M.M., Fortes, M.P., Back, D.F., Kaufman, T.S., Silveira, C.C. An eco-friendly synthesis of novel 3,5-disubstituted-1,2-isoxazoles in PEG-400, employing the Et ₃ N-promoted hydroamination of symmetric and unsymmetric 1,3-diyne-indole derivatives RSC Advances, 4 (105), 60785-60797 (2014).
5.	5.	Maki, H., Ryousi, K., Nariai, H., Mizuhata, M. Synthesis, protonation equilibrium and peculiar thermal decomposition behavior of cyclo-tri-μ-imidotetraphosphate (2014) Dalton Transactions, 43 (30), 11611-11623 (2014).
6.	6.	Juribašić, M., Bregović, N., Stilinović, V., Tomišić, V., Cindrić, M., Šket, P., Plavec, J., Rubčić, M., Užarević, K. Supramolecular stabilization of metastable tautomers in solution and the solid state Chemistry - A European Journal, 20 (52), 17333-17345 (2014).
7.	7.	Bandyopadhyay, B., Biswas, P. External control over tautomeric distribution and inter-conversion: New insights into the realm of catalyzed tautomerization RSC Advances, 5 (44), 34588-34593 (2015).
8.	8.	Rauf, M.A., Hisaindee, S., Saleh, N. Spectroscopic studies of keto-enol tautomeric equilibrium of azo dyes RSC Advances, 5 (23), 18097-18110 (2015).
9.	9.	Rams-Baron, M., Wojnarowska, Z., Grzybowska, K., Dulski, M., Knapik, J., Jurkiewicz, K., Smolka, W., Sawicki, W., Ratuszna, A., Paluch, M. Toward a better understanding of the physical stability of amorphous anti-inflammatory agents: The roles of molecular mobility and molecular interaction patterns Molecular Pharmaceutics, 12 (10), 3628-3638 (2015).
10.	10.	Calogero, G., Bartolotta, A., Di Marco, G., Di Carlo, A., Bonaccorso, F. Vegetable-based dye-sensitized solar cells Chemical Society Reviews, 44 (10), 3244-3294 (2015).
11.	11.	Filarowski, A., Lopatkova, M., Lipkowski, P., Van Der Auweraer, M., Leen, V., Dehaen, W. Solvatochromism of BODIPY-Schiff dye Journal of Physical Chemistry B, 119 (6), 2576-2584 (2015).
12.	12.	Wojciechowska, A., Jasiński, M., Kaszyński, P. Tautomeric equilibrium in trifluoroacetaldehyde arylhydrazones Tetrahedron, 71 (16), art. 26497, 2349-2356 (2015).

13.	13.	Cigáň, M., Jakusová, K., Donovalová, J., Filo, J., Horváth, M., Gáplovský, A. Fluorescence of isatin N-phenylsemicarbazones: Aggregation and hydrazide-hydrazone tautomerism Journal of Physical Organic Chemistry, 28 (5), 337-346 (2015).
14.	14.	Calvo, N.L., Simonetti, S.O., Maggio, R.M., Kaufman, T.S. Thermally induced solid-state transformation of cimetidine. A multi-spectroscopic/chemometrics determination of the kinetics of the process and structural elucidation of one of the products as a stable N³-enamino tautomer Analytica Chimica Acta, 875, 22-32 (2015).
15.	15.	Alpaslan, Y.B., Gökce, H., Alpaslan, G., Macit, M. Spectroscopic characterization and density functional studies of (Z)-1-[(2-methoxy-5-(trifluoromethyl)phenylamino)methylene]naphthalene-2(1H)-one Journal of Molecular Structure, 1097, 171-180 (2015).
16.	16.	Marín-Luna, M., Alkorta, I., Elguero, J. The influence of halogen bonds on tautomerism: The case of 3-mercapto-1,2-azoles (pyrazoles, isoxazoles, isothiazoles) Structural Chemistry, 26 (3), 639-645 (2015).
17.	17.	Ajaj, I., Markovski, J., Rančić, M., Mijin, D., Milčić, M., Jovanović, M., Marinković, A. Solvent and structural effects in tautomeric 2(6)-hydroxy-4-methyl-6(2)-oxo-1-(substituted phenyl)-1,2(1,6)-dihydropyridine-3-carbonitriles: UV, NMR and quantum chemical study Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 150, 575-585 (2015).
18.	18.	Barare, B., Yildiz, M., Alpaslan, G., Dilek, N., Ünver, H., Tadesse, S., Aslan, K. Synthesis, characterization, theoretical calculations, DNA binding and colorimetric anion sensing applications of 1-[(E)-[(6-methoxy-1,3-benzothiazol-2-yl)imino]methyl]naphthalen-2-ol Sensors and Actuators, B: Chemical, 215, 52-61 (2015).
19.	19.	Samuilov, A.Ya., Balabanova, F.B., Samuilov, Ya.D., Konovalov, A.I. Alcohol associates as catalysts of tautomeric transformations Russian Journal of General Chemistry, 85 (8), 1808-1815 (2015).
20.	20.	Saczewski, J., Fedorowicz, J., Korcz, M., Saczewski, F., Wicher, B., Gdaniec, M., Konopacka, A. Experimental and theoretical studies on the tautomerism and reactivity of isoxazolo[3,4-b]quinolin-3(1H)-ones Tetrahedron, 71 (47), 8975-8984 (2015).
21.	21.	Singh, V., Fedeles, B.I., Essigmann, J.M. Role of tautomerism in RNA biochemistry RNA, 21, 1-13 (2015).
22.	22.	Karpińska, G., Dobrowolski, J.C. On tautomerism of 1,2,4-triazol-3-ones Computational and Theoretical Chemistry, 1052, 58-67 (2015).
23.	23.	Tyukhtenko, S., Hilton, M., Gerasimchuk, N. Classic Isomeric 1,2- and 2,1-nitrosonaphthols are Oximes in Solid State and Solutions Current Inorganic Chemistry, 5 (2), 120-136 (2015).
24.	24.	Saghi, M., Lotfi, A., Bigtan, M.H., Zare, R. Studying the geometric parameters, stability of isomer and IR frequencies in enamnone compounds with the DFT and HF methods: A theoretical study Scientific Journal of Review, 4 (5), 71-77 (2015).
25.	25.	Walg, S.P. Synthese neuartiger Phosphinoazinliganden und kooperative Effekte ihrer Komplexe Dissertation, Technischen Universität Kaiserslautern, Germany, 215 (2015).
26.	26.	Pis-Diez, R., Echeverría, G.A., Piro, O.E., Jios, J.L., Parajón-Costa, B.S. A structural, spectroscopic and theoretical study of an o-vanillin Schiff base derivative involved in enol-imine and keto-amine tautomerism New Journal of Chemistry, 40 (3), 2730-2740 (2016).
27.	27.	Dona, A.C., Kyriakides, M., Scott, F., Shephard, E.A., Varshavi, D., Veselkov, K., Everett, J.R.

		A guide to the identification of metabolites in NMR-based metabonomics/metabolomics experiments Computational and Structural Biotechnology Journal, 14, 135-153 (2016).
28.	28.	Kumar, D., Vemula, S.R., Cook, G.R. Merging C-H Bond Functionalization with Amide Alcoholysis: En Route to 2-Aminopyridines ACS Catalysis, 6 (6), 3531-3536 (2016).
29.	29.	Nagy, P.I. Replacement of oxygen by sulfur in small organic molecules. 3. Theoretical studies on the tautomeric equilibria of the 2OH and 4OH-substituted oxazole and thiazole and the 3OH and 4OH-Substituted isoxazole and isothiazole in the isolated state and in solution International Journal of Molecular Sciences, 17 (7), art. 1094 (2016).
30.	30.	Głębocka, A., Raczynska, E.D., Chylewska, A., Makowski, M. Experimental (FT-IR) and theoretical (DFT) studies on prototropy and H-bond formation for pyrazine-2-amidoxime Journal of Physical Organic Chemistry, 29 (7), 326-335 (2016).
31.	31.	Tok, O.L., Růžicková, Z., Růžicka, A., Hnyk, D., Štíbr, B. Prototropic μ -H _{8,9} and μ -H _{9,10} Tautomers Derived from the [nido-5,6-C ₂ B ₈ H ₁₁]-Anion Inorganic Chemistry, 55 (20), 10122-10124 (2016).
32.	32.	Novko, D., Tremblay, J.C., Blanco-Rey, M. On the tautomerisation of porphycene on copper (111): Finding the subtle balance between van der Waals interactions and hybridisation Journal of Chemical Physics, 145 (24), art. 244701 (2016).
33.	33.	Elguero, J. Tautomerism: A Historical Perspective Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 1-10 (2016).
34.	34.	Nagy, P. Theoretical Consideration of In-Solution Tautomeric Equilibria in Relation to Drug Design Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 113-146 (2016).
35.	35.	Hill, J.P., Labuta, J., Ishihara, S., Richards, G.J., Xie, Y., D'Souza, F., Ariga, K. Tautomerism in Oxoporphyrinogens and Pyrazinacenes Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 203-228 (2016).
36.	36.	Mejía-Mazariegos, L., Robles, J., García-Revilla, M.A. Tautomerism in some pyrimidine nucleoside analogues used in the treatment of cancer: an ab initio study Theoretical Chemistry Accounts, 135, art. 233 (2016).
37.	37.	Aibassov, Y., Yemelyanova, V., Tussupbayev, N., Shakieva, T., Yerzhanova, Z., Bulenbayev, M., Blagikh, E. Explanation of Tautomerism and Isomerization in Terms of the Magnetic Field Journal of Chemistry and Chemical Engineering, 10, 96-98 (2016).
38.	38.	do Rêgo, J.K.M.A. Efeito da incorporação de corantes fotocromáticos em matriz de poli (metacrilato de metila) Tesa de Doutorado, Universidade Federal do Rio Grande do Norte, Brasília, 122 (2016).
39.	39.	Pulst, M., Elgabarty, H., Sebastiani, D., Kressler, J. The annular tautomerism of lithium 1,2,3-triazolate New Journal of Chemistry, 41 (4), 1430-1435 (2017).
40.	40.	Hübscher, J., Seichter, W., Weber, E. Intermolecular contacts in the crystal structures of specifically varied halogen and protonic group substituted azines CrystEngComm, 19 (22), 3026-3036 (2017).
41.	41.	Martyanov, T.P., Klimenko, L.S., Kozlovskiy, V.I., Ushakov, E.N. Tautomeric chromoionophores derived from 1-aryloxanthraquinones and 4' -

		aminobenzo-15-crown-5 ether: Sandwich complex formation enhanced by interchromophoric interactions Tetrahedron, 73 (6), 681-691 (2017).
42.	42.	Božić, A.R., Filipović, N.R., Novaković, I.T., Bjelogrić, S.K., Nikolić, J.B., Drmanić, S.Ž., Marinković, A.D. Synthesis, antioxidant and antimicrobial activity of Carbohydrazones Journal of the Serbian Chemical Society, 82 (5), 495-508 (2017).
43.	43.	Saganuwan, S.A. In vivo piroxicam metabolites: Possible source for synthesis of central nervous system (CNS) acting depressants Central Nervous System Agents in Medicinal Chemistry, 17 (3), 172-177 (2017).
44.	44.	Siskos, M.G., Choudhary, M.I., Gerothanassis, I.P. Refinement of labile hydrogen positions based on DFT calculations of ¹ H NMR chemical shifts: Comparison with X-ray and neutron diffraction methods Organic and Biomolecular Chemistry, 15 (21), 4655-4666 (2017).
45.	45.	Wagner-Wysiecka, E., Szarmach, M., Chojnacki, J., Łukasik, N., Luboch, E. Cation sensing by diphenyl-azobenzocrowns Journal of Photochemistry and Photobiology A: Chemistry, 333, 220-232 (2017).
46.	46.	Nikitina, P.A., Perevalov, V.P. Methods of synthesis and physicochemical properties of 1-hydroxyimidazoles, imidazole 3-oxides, and their benzoannulated analogs Chemistry of Heterocyclic Compounds, 53 (2), 123-149 (2017).
47.	47.	Novko, D., Blanco-Rey, M., Tremblay, J.C. Intermode Coupling Drives the Irreversible Tautomerization in Porphycene on Copper(111) Induced by Scanning Tunnelling Microscopy Journal of Physical Chemistry Letters, 8 (5), 1053-1059 (2017).
48.	48.	Quertinmont, J., Carletta, A., Tumanov, N.A., Leyssens, T., Wouters, J., Champagne, B. Assessing density functional theory approaches for predicting the structure and relative energy of salicylideneaniline molecular switches in the solid state Journal of Physical Chemistry C, 121 (12), 6898-6908 (2017).
49.	49.	Alomari, M.I., Ababneh, T.S., Alshboul, T.M.A. Structure, vibrations and relative stability of 1-methylcyclobutene and methylenecyclobutane tautomers using DFT and CCSD methods Journal of Theoretical and Computational Chemistry, 16 (5), art. 1750041 (2017).
50.	50.	Sakashita, R., Oka, Y., Akimaru, H., Kesavan, P.E., Ishida, M., Toganoh, M., Ishizuka, T., Mori, S., Furuta, H. Tautomerism-Induced Cis-Trans Isomerization of Pyridylethenyl N-Confused Porphyrin Journal of Organic Chemistry, 82 (16), 8686-8696 (2017).
51.	51.	Łukasik, N., Wagner-Wysiecka, E. Salicylaldimine-based receptor as a material for iron(III) selective optical sensing Journal of Photochemistry and Photobiology A: Chemistry, 346, 318-326 (2017).
52.	52.	Malaspina, L.A., White, A.H., Wege, D., Tolmie, M.B., Skelton, B.W., Grabowsky, S. Tautomerism in acyl-pyrazolones and in a novel photolysis product—importance and impact of the accurate localization of hydrogen atoms in crystal structures Structural Chemistry, 28 (5), 1343-1357 (2017).
53.	53.	Raczyńska, E.D. Quantum-chemical studies on the favored and rare isomers of isocytosine Computational and Theoretical Chemistry, 1121, 58-67 (2017).
54.	54.	Siskos, M.G., Choudhary, M.I., Gerothanassis, I.P. Hydrogen Atomic Positions of O—H...O Hydrogen Bonds in Solution and in the Solid State: The Synergy of Quantum Chemical Calculations with ¹ H-NMR Chemical Shifts and X-ray Diffraction Methods Molecules, 22 (3), art. 415 (2017).
55.	55.	Alomari, M.I., Ababneh, T.S., Alshboul, T.M.A. Structure, vibrations and relative stability of 1-methylcyclobutene and methylenecyclobutane tautomers using DFT and CCSD methods

		Journal of Theoretical and Computational Chemistry, 16 (5), art. 1750041 (2017).
56.	56.	Ji, Y., Yang, X., Tang, J. Amide Resonance Structure Detected by NMR to Predict Hydroxyl Unit in Protein Advances in Biological Sciences Research, 4, 459-464 (2017).
57.	57.	de Alcântara Morais, S.F. Efeitos Sinérgicos da Cooperatividade Molecular na Descrição da Reatividade Química Tesa de Doutorado, Universidade de Brasília, 108 (2017).
58.	58.	Liu, J., Yang, X., Zuo, Z., Nan, J., Wang, Y., Luan, X. Catalytic Enantioselective Tautomerization of Metastable Enamines Organic Letters, 20 (1), 244-247 (2018).
59.	59.	Quertinmont, J., Leyssens, T., Wouters, J., Champagne, B. Effects of empirical dispersion energy on the geometrical parameters and relative energy of a salicylideneaniline molecular switch in the solid state Crystals, 8 (3), art. 125 (2018).
60.	60.	Liu, S., Baugh, D., Motobayashi, K., Zhao, X., Levchenko, S.V., Gawinkowski, S., Waluk, J., Grill, L., Persson, M., Kumagai, T. Anharmonicity in a double hydrogen transfer reaction studied in a single porphycene molecule on a Cu(110) surface (2018) Physical Chemistry Chemical Physics, 20 (17), 12112-12119 (2018).
61.	61.	Varshavi, D., Scott, F.H., Varshavi, D., Veeravalli, S., Phillips, I.R., Veselkov, K., Strittmatter, N., Takats, Z., Shephard, E.A., Everett, J.R. Metabolic biomarkers of ageing in C57BL/6J wild-type and flavin-containing monooxygenase 5 (FMO5)-knockout mice Frontiers in Molecular Biosciences, 5 (APR), art. 28 (2018).
62.	62.	Zutterman, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B. Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
63.	63.	Makhloufi, A., Ghemit, R., Baitiche, M., Merbah, M. Theoretical and Experimental Investigation of the 2-Hydroxyquinoxaline Structure: Study of the Tautomerization Equilibrium System and Analysis of the Electronic Properties Journal of Structural Chemistry, 59 (1), 71-79 (2018).
64.	64.	Colasurdo, D.D., Pila, M.N., Iglesias, D.A., Laurella, S.L., Ruiz, D.L. Tautomerism of uracil and related compounds: A mass spectrometry study European Journal of Mass Spectrometry, 24 (2), 214-224 (2018).
65.	65.	Soniya, K., Chandra, A. Free energy landscapes of prototropic tautomerism in pyridoxal 5' - phosphate schiff bases at the active site of an enzyme in aqueous medium Journal of Computational Chemistry, 39 (21), 1629-1638 (2018).
66.	66.	Zhang, H., Wu, W., Mo, Y. Tautomerism of protonated imidazoles: A perspective from ab initio valence bond theory Tetrahedron, 74 (37), 4791-4798 (2018).
67.	67.	Meshhal, M.M., Shibl, M.F., El-Demerdash, S.H., El-Nahas, A.M. A computational study on molecular structure and stability of tautomers of dipyrrole-based phenanthroline analogue Computational and Theoretical Chemistry, 1145, 6-14 (2018).
68.	68.	Kumagai, T., Ladenthin, J.N., Litman, Y., Rossi, M., Grill, L., Gawinkowski, S., Waluk, J., Persson, M. Quantum tunneling in real space: Tautomerization of single porphycene molecules on the (111) surface of Cu, Ag, and Au Journal of Chemical Physics, 148 (10), art. 102330 (2018).
69.	69.	Nikitina, P.A., Koldaeva, T.Y., Mityanov, V.S., Miroshnikov, V.S., Basanova, E.I., Perevalov, V.P. Prototropic Tautomerism and Some Features of the IR Spectra of 2-(3-Chromenyl)-1-hydroxyimidazoles

		Australian Journal of Chemistry, 72 (9), 699-709 (2019).
70.	70.	Gökce, H., Alpaslan, Y.B., Zeyrek, C.T., Açar, E., Güder, A., Özdemir, N., Alpaslan, G. Structural, spectroscopic, radical scavenging activity, molecular docking and DFT studies of a synthesized Schiff base compound Journal of Molecular Structure, 1179, 205-215 (2019).
71.	71.	Joseph, S.K., Kuritz, N., Yahel, E., Lapshina, N., Rosenman, G., Natan, A. Proton-Transfer-Induced Fluorescence in Self-Assembled Short Peptides Journal of Physical Chemistry A, 123 (9), 1758-1765 (2019).
72.	72.	Alpaslan, G., Boyacioglu, B., Demir, N., Tümer, Y., Yapar, G., Yıldırım, N., Yıldız, M., Ünver, H. Synthesis, characterization, biological activity and theoretical studies of a 2-amino-6-methoxybenzothiazole-based fluorescent Schiff base Journal of Molecular Structure, 1180, 170-178 (2019).
73.	73.	Zhang, N., Shi, Z., Guo, Y., Xie, S., Qiao, Y., Li, X.-N., Xue, Y., Luo, Z., Zhu, H., Chen, C., Hu, L., Zhang, Y. The absolute configurations of hyperilongenols A-C: Rare 12,13-: Seco -spirocyclic polycyclic polyprenylated acylphloroglucinols with enolizable β, β' -tricarbonyl systems from Hypericum longistylum Oliv. Organic Chemistry Frontiers, 6 (9), 1491-1502 (2019).
74.	74.	Wolnica, K., Szklarz, G., Dulski, M., Wojtyniak, M., Tarnacka, M., Kaminska, E., Wrzalik, R., Kaminski, K., Paluch, M. Studying tautomerism in an important pharmaceutical glibenclamide confined in the thin nanometric layers Colloids and Surfaces B: Biointerfaces, 182, art. 110319 (2019).
75.	75.	Ponomarev, A.V., Vlasov, S.I., Kholodkova, E.M., Chulkov, V.N., Bludenko, A.V. Influence of boiling on radiolysis of oxygen-containing liquids Radiation Physics and Chemistry, 165, art. 108405 (2019).
76.	76.	Ajaj, I., Assaleh, F.H., Markovski, J., Rančić, M., Brković, D., Milčić, M., Marinković, A.D. Solvatochromism and azo-hydrazo tautomerism of novel arylazo pyridone dyes: Experimental and quantum chemical study, Arabian Journal of Chemistry, 12 (8), 3463-3478 (2019).
77.	77.	Viková, M. Type of Chromic Materials Chromic materials : fundamentals, measurements, and applications, Apple Academic Press Inc., 36-108 (2019).
78.	78.	Brovarets, O.O., Hovorun, D.M. Intramolecular tautomerization of the quercetin molecule due to the proton transfer: QM computational study PLOS ONE, 14 (11), art. e0224762 (2019).
79.	79.	Filo, J., Tisovský, P., Csicsai, K., Donovalová, J., Gáplovský, M., Gáplovský, A., Cigáň, M. Tautomeric photoswitches: Anion-assisted azo/azine-to-hydrazone photochromism RSC Advances, 9 (28), 15910-15916 (2019).
80.	80.	Shekaari, A., Jafari, M. Modeling the action of environment on proton tunneling in the adenine-thymine base pair Progress in Biophysics and Molecular Biology, 150, 98-103 (2020).
81.	81.	Asha, T.M., Shiju, E., Keloth, C., Kurup, M.R.P. A Schiff base colorimetric chemosensor for CN ⁻ ion and its dioxidomolybdenum (VI) complexes: Evaluation of structural aspects and optoelectronic properties Applied Organometallic Chemistry, art. e5520 (2020).
82.	82.	Benkhaya, S., M'rabet, S., El Harfi, A. Classifications, properties, recent synthesis and applications of azo dyes Heliyon, 6 (1), art. e03271 (2020).
83.	83.	Siskos, M.G., Varras, P.C., Gerothanassis, I.P. DFT calculations of O-H...O 1H NMR chemical shifts in investigating enol-enol tautomeric equilibria: Probing the impacts of intramolecular hydrogen bonding vs stereoelectronic interactions

		Tetrahedron, 76 (9), art. 130979 (2020).
84.	84.	Xiao, R., He, L., Luo, Z., Spinney, R., Wei, Z., Dionysiou, D.D., Zhao, F. An experimental and theoretical study on the degradation of clonidine by hydroxyl and sulfate radicals Science of the Total Environment, 710, art. 136333 (2020).
85.	85.	Brovarets', O.O., Hovorun, D.M. A new era of the prototropic tautomerism of the quercetin molecule: A QM/QTAIM computational advances Journal of Biomolecular Structure and Dynamics, 38 (16), 4774-4800 (2020).
86.	86.	Kwabi, D.G., Ji, Y., Aziz, M.J. Electrolyte Lifetime in Aqueous Organic Redox Flow Batteries: A Critical Review Chemical Reviews, 120 (14), 6467-6489 (2020)
87.	87.	Doppagne, B., Neuman, T., Soria-Martinez, R., López, L.E.P., Bulou, H., Romeo, M., Berciaud, S., Scheurer, F., Aizpurua, J., Schull, G. Single-molecule tautomerization tracking through space- and time-resolved fluorescence spectroscopy Nature Nanotechnology, 15 (3), 207-211 (2020)..
88.	88.	Ishizuka, T., Sakashita, R., Iwanaga, O., Morimoto, T., Mori, S., Ishida, M., Toganoh, M., Takegoshi, K., Osuka, A., Furuta, H. NH Tautomerism of N-Confused Porphyrin: Solvent/Substituent Effects and Isomerization Mechanism Journal of Physical Chemistry A, 124 (28), 5756-5769 (2020).
89.	89.	Ila, Dani, R., Verma, S.P., Krishnamoorthy, G. The origin of the longer wavelength emission in 2-(4-fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole and its analogue 2-phenylamino-5-(2-hydroxybenzeno)-1,3,4-thiadiazole Photochemical and Photobiological Sciences, 19 (6), 844-853 (2020).
90.	90.	Tseng, C.-C., Chung, C.-Y., Tsai, S.-E., Takayama, H., Uramaru, N., Lin, C.-Y., Wong, F.F. Selective synthesis and photoluminescence study of pyrazolopyridopyridazine diones and N-aminopyrazolopyrrolopyridine diones Molecules, 25 (10), art. no. 2409 (2020).
91.	91.	Wagner-Wysiecka, E., Szulc, P., Luboch, E., Chojnacki, J., Szwarc-Karabyka, K., Łukasik, N., Murawski, M., Kosno, M. Photochemical Rearrangement of a 19-Membered Azoxybenzocrown: Products and their Properties ChemPlusChem, 85 (9), 2067-2083 (2020).
92.	92.	Schoelits, B., Mwingira, V., Mboera, L. E. G., Beijleveld, H., Koenraadt, C. J. M., Spitzen, J., van Loon, J. J. A., Takken, W. Chemical Mediation of Oviposition by Anopheles Mosquitoes: a Push-Pull System Driven by Volatiles Associated with Larval Stages Journal of Chemical Ecology, 46, 397-409 (2020).
93.	93.	Arsene, I., Coropceanu, E. Studiul teoretic al stabilității energetice a citozinei – component al moleculei de ADN Învățământ superior: tradiții, valori, perspective, 1, 24-28 (2020).
94.	94.	Viková M, Pechová M. Study of adaptive thermochromic camouflage for combat uniform Textile Research Journal, 90 (17-18), 2070-2084 (2020).
95.	95.	Kapusta, D.P., Kulakova, A.M., Khrenova, M.G. Modeling the Tautomeric Equilibrium and Absorption Spectrum of 4,5-Dimethyl-2-(2'-hydroxyphenyl)imidazole Russian Journal of Physical Chemistry A, 94 (5), 945-950 (2020).
96.	96.	Arsene, I., Coropceanu, E., Aluchi N. Investigații teoretice a stabilității energetice a guaninei în cadrul orelor de Chimie și Biologie Materialele Conferinței Republicane a Cadrelor Didactice, 2, 133-138 (2021).
97.	97.	Derevyashkin, S.V., Soboleva, E.A., Shelkovnikov, V., Orlova, N.A., Malakhov, I.A.,

		Berezhnaya, V.N., Savina, E.D., Tsentalovich, Y.P. Phototransformations of acrylamide derivatives of piperazine-substituted polyfluorinated chalcones Journal of Photochemistry and Photobiology A: Chemistry, 406, art. no. 112973 (2021).
98.	98.	Colasurdo, D.D., Pila, M.N., Laurella, S.L., Allegratti, P.E., Ruiz, D.L. Evidence of the presence of minor tautomeric forms in selected nitroanilines Rapid Communications in Mass Spectrometry, 35 (3), art. no. e9000 (2021).
99.	99.	Neuerová, Z., Lyčka, A. 15N, 13C and 1H NMR study of tautomerism in 2-(phenyldiazenyl-4-substituted naphthalen-1-yl)s. Influence of substitution in passive components on azo-hydrazo tautomerism Dyes and Pigments, 188, art. no. 109149 (2021).
100.	100.	Bingöl Alpaslan, Y., Gökce, H., Macit, M., Kaya, S., Alpaslan, G. Structural, spectroscopic, and theoretical investigations of (E)-methyl-3-(3,5-di-tert-butyl-2-hydroxybenzylideneamino)-4-methylbenzoate Journal of the Chinese Chemical Society, doi: 10.1002/jccs.202000285 (2021).
101.	101.	Chung, C.-Y., Tseng, C.-C., Li, S.-M., Tsai, S.-E., Lin, H.-Y., Wong, F.F. Structural identification between phthalazine-1,4-diones and n-aminophthalimides via vilsmeier reaction: Nitrogen cyclization and tautomerization study Molecules, 26 (10), art. no. 2907 (2021).
A.2. Preface. <u>L.Antonov</u> ; in <i>Tautomerism – Methods and Theories</i> , <u>L.Antonov</u> (Editor), Wiley-VCH, XV-XVII (2014)		
102.	1.	Konshina, D.N., Lupanova, I.A., Efimenko, S.E., Konshin, V.V. A new derivative of 8-hydroxyquinoline. Features of distribution and complexation with Cu(II) and Zn(II) in two-phase systems Solvent Extraction and Ion Exchange, doi: 10.1080/07366299.2021.1910271 (2021).
A.3. Tautomerism: Introduction, history, and recent developments in experimental and theoretical methods. P.J.Taylor, G. van der Zwan & <u>L.Antonov</u> ; in <i>Tautomerism – Methods and Theories</i> , <u>L.Antonov</u> (Editor), Wiley-VCH, 1-24 (2014)		
103.	1.	Pop, R., Ilici, M., Andoni, M., Bercean, V.N., Muntean, C., Venter, M.M., Julean, I. Theoretical Considerations Regarding the Thione-thiol Tautomerism in 2-(5-mercapto-1,3,4-thiadiazol-2-ylthio)acetic Acid Acta Chimica Slovenica, 62, 8-14 (2015).
104.	2.	Kumagai, T. Direct observation and control of hydrogen-bond dynamics using low-temperature scanning tunneling microscopy Progress in Surface Science, 90 (3), 239-291 (2015).
105.	3.	Storch, G., Spallek, M.J., Rominger, F., Trapp, O. Tautomerization-Mediated Molecular Switching Between Six- and Seven-Membered Rings Stabilized by Hydrogen Bonding Chemistry - A European Journal, 21 (24), 8939-8945 (2015).
106.	4.	Chen, C., Hu, J., Xie, K., Liu, H., Zhang, X. Investigation of condensation products of aldehydes with acetoacetic ester catalyzed by organic bases: absolute configuration determination by X-ray crystallography and tautomeric equilibria studies by NMR spectroscopy Research on Chemical Intermediates, 41 (8), 5769–5780 (2015).
107.	5.	Szternier, P., Galvão, T.L.P., Amaral, L.M.P.F., Ribeiro Da Silva, M.D.M.C., Ribeiro Da Silva, M.A.V. 5-Isopropylbarbituric and 2-thiobarbituric acids: An experimental and computational study Thermochimica Acta, 625, 36-46 (2016).
108.	6.	Campbell, J.L., Yang, A.M.-C., Melo, L.R., Hopkins, W.S. Studying Gas-Phase Interconversion of Tautomers Using Differential Mobility Spectrometry Journal of the American Society for Mass Spectrometry, 27 (7), 1277-1284 (2016).
109.	7.	Yıldırım, A.O., Yıldırım, M.H., Kaştaş, C.A. Studies on the synthesis, spectroscopic analysis and DFT calculations on (E)-4,6-dichloro-2-[(2-chlorophenylimino)methyl]-3-methoxyphenol as a novel Schiff's base

		Journal of Molecular Structure, 113, 1-8 (2016).
110.	8.	Joseph, A. Studies of Polymorphs and Solvates of Molecular Organic Solids Doutoramento em Química, Universidade de Lisboa, Portugal, 308 (2016).
111.	9.	De Freitas, G.R.S., Coelho, S.E., Monteiro, N.K.V., Neri, J.M., Cavalcanti, L.N., Domingos, J.B., Vieira, D.S., De Souza, M.A.F., Menezes, F.G. Theoretical and experimental investigation of acidity of the glutamate receptor antagonist 6,7-dinitro-1,4-dihydroquinoxaline-2,3-dione and Its Possible Implication in GluA2 Binding Journal of Physical Chemistry A, 121 (39), 7414-7423 (2017).
112.	10.	Irshaidat, T. Toward Exploring Novel Organic Materials: MP4-DFT Properties of 4-Amino-3-Iminoindene Molecules, 22 (5), art. 720 (2017).
113.	11.	Attygalle, A.B., Xia, H., Pavlov, J. Influence of Ionization Source Conditions on the Gas-Phase Protomer Distribution of Anilinium and Related Cations Journal of The American Society for Mass Spectrometry, 28 (8), 1575–1586 (2017).
114.	12.	Jordaan, M.A., Shapi, M. Investigation of the solvent-dependent photolysis of a nonnucleoside reverse-transcriptase inhibitor, antiviral agent efavirenz (2017) Antiviral Chemistry and Chemotherapy, 25 (3), 94-104 (2017).
115.	13.	Farley, C., Aggarwal, A., Singh, S., Dolor, A., To, P., Falber, A., Crossley, M., Drain, C.M. A structural model of nitro-porphyrin dyes based on spectroscopy and density functional theory Journal of Computational Chemistry, 39 (18), 1129-1142 (2018).
116.	14.	Marrero-Carballo, R., Tun-Rosado, F., Mena-Rejón, G.J., Cáceres-Castillo, D., Barroso, J., Murillo, F., Merino, G., Quijano-Quiñones, R.F. The base-catalyzed keto-enol tautomerism of chrysophanol anthrone. A DFT investigation of the base-catalyzed reaction Molecular Simulation, 45 (9), 716-723 (2019).
117.	15.	Boodram, S., Roy, S., Singh, N., Fairman, R.A., Peter, S.C., Rambaran, V.H. Investigations into an Intramolecular Proton Transfer and Solvent Dependent Acid-Base Equilibria in 2,6-Pyridine Diacetic Acid ChemistrySelect, 4 (14), 4301-4307 (2019).
118.	16.	Ouvry, G., Clary, L., Tomas, L., Aurelly, M., Bonnary, L., Borde, E., Bouix-Peter, C., Chantalat, L., Defoin-Platel, C., Deret, S., Forissier, M., Harris, C.S., Isabet, T., Lamy, L., Luzy, A.-P., Pascau, J., Soulet, C., Taddei, A., Taquet, N., Thoreau, E., Varvier, E., Vial, E., Hennequin, L.F. Impact of Minor Structural Modifications on Properties of a Series of mTOR Inhibitors ACS Medicinal Chemistry Letters, 10 (11), 1561-1567 (2019).
119.	17.	Zilberg, S. Stronger Hydrogen Bonds of Less Stable Tautomers in the Ground State and Reversed Stability in the First Excited State: The Role of Electronic Excited States in Hydrogen-Bonding Hydrogen-Bonding Research in Photochemistry, Photobiology, and Optoelectronic Materials (K.Han, G.Zhao, editors), World Scientific, 239-273 (2019).
120.	18.	Coropceanu, E., Arsene, I., Șargarovschi, V., Purcel, Z. Study of instability of some unsaturated alcohols isomers and of intermediate reactions in the tautomeric transformation process in the Organic Chemistry course Acta et Commentationes, Sciences of Education, 2 (16), 32-42 (2019).
121.	19.	Brovarets, O.O., Hovorun, D.M. Intramolecular tautomerization of the quercetin molecule due to the proton transfer: QM computational study PLoS ONE, 14 (11), art. e0224762 (2019).
122.	20.	Secieru, A., O'Neill, P.M., Cristiano, M.L.S. Revisiting the structure and chemistry of 3(5)-substituted pyrazoles Molecules, 25 (1), art. 42 (2020).

123.	21.	Brovarets', O.O., Hovorun, D.M. A new era of the prototropic tautomerism of the quercetin molecule: A QM/QTAIM computational advances Journal of Biomolecular Structure and Dynamics, 38 (16), 4774-4800 (2020).
124.	22.	Trivedi, M.K., Panda, P., Sethi, K.K., Gangwar, M., Mondal, S.C., Jana, S. Solid and liquid state characterization of tetrahydrocurcumin using XRPD, FT-IR, DSC, TGA, LC-MS, GC-MS, NMR and its biological activities Journal of Pharmaceutical Analysis, 10 (4), 334-345 (2020).
125.	23.	Wahl, O., Sander, T. Tautobase: An Open Tautomer Database Journal of Chemical Information and Modeling, 60 (3), 1085-1089 (2020).
126.	24.	Wieder, M., Fass, J., Chodera, J. D. Fitting quantum machine learning potentials to experimental free energy data: Predicting tautomer ratios in solution bioRxiv (2020), doi: 10.1101/2020.10.24.353318.
127.	25.	Marín-Luna, M., Claramunt, R M., Elguero, J., Alkorta, I. Theoretical and Spectroscopic Characterization of API-Related Azoles in Solution and in Solid State Current Pharmaceutical Design 26(38), 4847-4857 (2020).
128.	26.	Baker, C.M., Kidley, N.J., Papachristos, K., Hotson, M., Carson, R., Gravestock, D., Pouliot, M., Harrison, J., Dowling, A. Tautomer Standardization in Chemical Databases: Deriving Business Rules from Quantum Chemistry Journal of Chemical Information and Modeling, 60(8), 3781-3791 (2020).
129.	27.	Mohammed, S.J., Salih, A.K., Rashid, M.A.M., Omer, K.M., Abdalkarim, K.A. Synthesis, Spectroscopic Studies and Keto-Enol Tautomerism of Novel 1,3,4-Thiadiazole Derivative Containing 3-Mercaptobutan-2-one and Quinazolin-4-one Moieties Molecules, 25 (22), art. no. 5441 (2020).
130.	28.	Oziminski, W.P., Wójtowicz, A. New theoretical insights on tautomerism of hyperforin—a prenylated phloroglucinol derivative which may be responsible for St. John's wort (<i>Hypericum perforatum</i>) antidepressant activity Structural Chemistry, 31 (2), 657-666 (2020).
131.	29.	Liu, Q., Wackenhut, F., Wang, L., Hauler, O., Roldao, J.C., Adam, P.-M., Brecht, M., Gierschner, J., Meixner, A.J. Direct Observation of Structural Heterogeneity and Tautomerization of Single Hypericin Molecules Journal of Physical Chemistry Letters, 12 (3), 1025-1031 (2021).
132.	30.	Sabahi-Agabager, L., Eskandari, H., Nasiri, F., Shamkhali, A.N., Baghi Sefidan, S. Properties of a furan ring-opening reaction in aqueous micellar solutions for selective sensing of mesalazine Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 258, art. no. 119846 (2021).
133.	31.	Vazquez-Salazar, L.I., Boittier, E., Unke, O.T., Meuwly, M. Impact of the characteristics of quantumchemical databases on machine learning predictions of tautomerization energies arXiv: 2104.06099 (2021).
134.	32.	Takele, W.M. Molecular Properties in an Optical Microcavity: From Ensembles to Single Molecules Doctoral Thesis, Institute of Physical Chemistry (PAS) and University of Tuebingen, 101 (2021).
A.4. Absorption UV-Vis spectroscopy and chemometrics: from qualitative conclusions to quantitative analysis. L.Antonov; in <i>Tautomerism – Methods and Theories</i> , L.Antonov (Editor), Wiley-VCH, 25-47 (2014)		
135.	1.	Elguero, J. Tautomerism: A Historical Perspective Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor),

		Wiley-VCH, 1-10 (2016).
136.	2.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
A.5. <i>Tautomerism – Concepts and Applications in Science and Technology.</i> L.Antonov (Editor), Wiley-VCH, Weinheim (2016)		
137.	1.	Bhatt, P., T. Kumar, S.A., Kumar, H., Safvan, C.P. Formation of H ₂ ⁺ and H ₃ ⁺ in energetic highly-charged-ion collisions with NH ₃ Physical Review A, 96, art. 022710 (2017).
138.	2.	Rams-Baron, M., Włodarczyk, P., Dulski, M., Włodarczyk, A., Kruk, D., Rachocki, A., Jachowicz, R., Paluch, M. The indications of tautomeric conversion in amorphous bicalutamide drug European Journal of Pharmaceutical Sciences, 110, 117-123 (2017)
139.	3.	Sakashita, R., Oka, Y., Akimaru, H., Kesavan, P.E., Ishida, M., Toganoh, M., Ishizuka, T., Mori, S., Furuta, H. Tautomerism-Induced Cis-Trans Isomerization of Pyridylethenyl N-Confused Porphyrin Journal of Organic Chemistry, 82 (16), 8686-8696 (2017).
140.	4.	Irshaidat, T. Unique and novel hydrogen bonding at the frontiers: 2-Dimethylaminobenzoic acid and MF _n interaction as model Oriental Journal of Chemistry, 33 (5), 2237-2248 (2017).
141.	5.	Wagner-Wysiecka, E., Szarmach, M., Chojnacki, J., Łukasik, N., Luboch, E. Cation sensing by diphenyl-azobenzocrowns Journal of Photochemistry and Photobiology A: Chemistry, 333, 220-232 (2017).
142.	6.	Brás, E.M., Fausto, R. Controlled light-driven switching in 2-thiobenzimidazole Journal of Photochemistry and Photobiology A: Chemistry, 357, 185-192 (2018).
143.	7.	Szymkowiak, J., Warżajtis, B., Rychlewska, U., Kwit, M. One - step Access to Resorcinsalens–Solvent - Dependent Synthesis, Tautomerism, Self - sorting and Supramolecular Architectures of Chiral Polyimine Analogues of Resorcinarene Chemistry – A European Journal, 24 (23), 6041-6046 (2018).
144.	8.	Bowers, G.A., Seybold, P.G. A stochastic cellular automata model of tautomer equilibria Molecular Physics, 116 (5-6), 746-751 (2018).
145.	9.	Zhang, H., Wu, W., Mo, Y. Tautomerism of protonated imidazoles: A perspective from ab initio valence bond theory Tetrahedron, 74 (37), 4791-4798 (2018).
146.	10.	Zutterman, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B. Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
147.	11.	De La Concepción, J.G., Ávalos, M., Cintas, P., Jiménez, J.L., Light, M.E. On the dual reactivity of a janus-type mesoionic dipole: Experiments and theoretical validation Organic and Biomolecular Chemistry, 16 (26), 4778-4783 (2018).
148.	12.	Saad, H.A.R., Shakir, R.M., Mahdi, M.H. Synthesis and Thermal Electro Conductivity of Some New Triazole Derivatives Bearing Azo or Azomethine Group Ibn Al Haitham Journal for Pure and Applied sciences, 31 (3), 88-101 (2018).
149.	13.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
150.	14.	Nikitina, P.A., Koldaeva, T.Y., Mityanov, V.S., Miroshnikov, V.S., Basanova, E.I., Perevalov,

		V.P. Prototropic Tautomerism and Some Features of the IR Spectra of 2-(3-Chromenyl)-1-hydroxyimidazoles Australian Journal of Chemistry, 72 (9), 699-709 (2019).
151.	15.	Watson, M.A., Yu, H.S., Bochevarov, A.D. Generation of Tautomers Using Micro-p K _{inf} 's Journal of Chemical Information and Modeling, 59 (6), 2672-2689 (2019).
152.	16.	Heidarpour Saremi, L., Ebrahimi, A., Lagzian, M. Substituent effects on direct and indirect tautomerism of pyrimidin-2(1H)-one/pyrimidin-2-ol Molecular Simulation, 45 (1), 58-67 (2019).
153.	17.	Wang, X., Gao, D., Li, D., Xie, Q., Deng, Z., Zhang, H. Collecting the molecular and ionization states of Irbesartan in the solid state Crystal Growth and Design, 20 (9), 5664-5669 (2020).
154.	18.	Litman, Y.E. Tunneling and Zero-Point Energy Effects in Multidimensional Hydrogen Transfer Reactions: From Gas Phase to Adsorption on Metal Surfaces Dissertation, Freie Universität Berlin, Germany (2020)
155.	19.	Brovarets', O.O., Hovorun, D.M. A new era of the prototropic tautomerism of the quercetin molecule: A QM/QTAIM computational advances Journal of Biomolecular Structure and Dynamics, 38 (16), 4774-4800 (2020).
156.	20.	Kapusta, D.P., Kulakova, A.M., Khrenova, M.G. Modeling the Tautomeric Equilibrium and Absorption Spectrum of 4,5-Dimethyl-2-(2'-hydroxyphenyl)imidazole Russian Journal of Physical Chemistry A, 94 (5), 945-950 (2020).
157.	21.	Ishizuka, T., Sakashita, R., Iwanaga, O., Morimoto, T., Mori, S., Ishida, M., Toganoh, M., Takegoshi, K., Osuka, A., Furuta, H. NH Tautomerism of N-Confused Porphyrin: Solvent/Substituent Effects and Isomerization Mechanism Journal of Physical Chemistry A, 124 (28), 5756-5769 (2020).
158.	22.	Dey G, Chakraborty A. Tautomers of homophthalic anhydride in the ground and excited electronic states: analysis through energy, hardness and vibrational signatures. Journal of Molecular Modeling, 26(7), art. no. 173 (2020).
159.	23.	Procházková, E., Kucherak, O., Stodůlková, E., Tošner, Z., Císařová, I., Flieger, M., Kolařík, M., Baszczyński, O. NMR Structure Elucidation of Naphthoquinones from Quambalaria cyanescens Journal of Natural Products, 84 (1), 46-55 (2021).
160.	24.	Levine, D.S., Watson, M.A., Jacobson, L.D., Dickerson, C.E., Yu, H.S., Bochevarov, A.D. Pattern-free generation and quantum mechanical scoring of ring-chain tautomers Journal of Computer-Aided Molecular Design, 35 (4), 417-431 (2021).
161.	25.	Kapusta, D.P., Mulashkin, F.D., Khrenova, M.G. Keto - enol tautomerism of the 4,5 - dimethyl - 2 - (2' - hydroxyphenyl)imidazole in water solution: Modeling equilibrium between neutral forms and accurate assignment of the absorption bands International Journal of Quantum Chemistry, 121 (8), art. no. e26577 (2021).
162.	26.	Janczak, J. Supramolecular architecture formed between amidinothiourea and 2-pyridinecarboxylic acid Journal of Molecular Structure, 1242, art. no. 130736 (2021).
163.	27.	Dey G, Chakraborty A. Conformational Landscape and Tautomerisation in (Z)-4-(hydroxymethylene) isochroman-1,3-dione: Analysis through Energy and Hardness profiles Journal of Molecular Structure, doi: 0.1016/j.molstruc.2021.130859 (2021).
A.6. Triage for tautomers: the choice between experiment and computation.		

P.J.Taylor & L.Antonov; in <i>Tautomerism – Concepts and Applications in Science and Technology</i> , L.Antonov (Editor), Wiley-VCH, 11-34 (2016)		
164.	1.	Vandyshev, D. Y., Shikhaliev, K. S., Potapov, A. Y., Krysin, M. Y., Zubkov, F. I., Sapronova, L. V. A novel synthetic approach to hydroimidazo[1,5-b]pyridazines by the recyclization of itaconimides and HPLC–HRMS monitoring of the reaction pathway Beilstein Journal of Organic Chemistry 2017, 13, 2561–2568 (2017).
165.	2.	Wieder, M., Fass, J., Chodera, J.D. Fitting quantum machine learning potentials to experimental free energy data: Predicting tautomer ratios in solution bioRxiv, doi: 10.1101/2020.10.24.353318v3 (2020).
A.7. The Fault Line in Prototropic Tautomerism. P.J.Taylor & L.Antonov; in <i>Tautomerism – Concepts and Applications in Science and Technology</i> , L.Antonov (Editor), Wiley-VCH, 95-112 (2016)		
A.8. Controlled Tautomerism: Is It Possible? D.Nedeltcheva & L.Antonov; in <i>Concepts and Applications in Science and Technology</i> , L.Antonov (Editor), Wiley-VCH, 273-294 (2016)		
166.	1.	Darugar, V., Vakili, M., Tayyari, S.F. Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach Optik, 236, art. no. 166475 (2021).
B.1. Drawbacks of the present standards for processing absorption spectra recorded linearly as a function of wavelength. L.Antonov; <i>Trends in Analytical Chemistry</i> , 16 , 536-543 (1997)		
167.	1.	Schneider, R.C. Zur Bestimmung von Ecstasy-Tabletten: Vergleich von Reflexions - und Transmissionsmessung im Nahen Infrarot Dissertation, Eberhard-Karls-Universität Tübingen, Germany, 125 (2002)
168.	2.	Schneider, R.C., Kovar, K.-A. Analysis of ecstasy tablets: Comparison of reflectance and transmittance near infrared spectroscopy Forensic Science International, 134 (2-3), 187-195 (2003).
169.	3.	McMillan, N.D., O'Rourke, B., Riedel, S.M., O'Neill, M., O'Neill, A.E., Bertho, A.C., Doyle, G., Beverley, K., Hammond, J., Augousti, A., Mason, J., Skelly, D.O., O'Neill, A.T., Boller, D., Cave, S.J. A new democratic phase coherent data-scatter technique for calibration, measurement, fingerprinting and rapid archival identification of ultraviolet-visible multi-component food spectra Analytica Chimica Acta, 511 (1), 119-135 (2004).
170.	4.	Moline, M.A., Blackwell, S.M., Chant, R., Oliver, M.J., Bergmann, T., Glenn, S., Schofield, O.M.E. Episodic physical forcing and the structure of phytoplankton communities in the coastal waters of New Jersey Journal of Geophysical Research C: Oceans, 109 (12), 1-17 (2004).
171.	5.	Heger, D., Jirkovský, J., Klán, P. Aggregation of methylene blue in frozen aqueous solutions studied by absorption spectroscopy Journal of Physical Chemistry A, 109 (30), 6702-6709 (2005).
172.	6.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
173.	7.	Habibi, M.H., Hassanzadeh, A., Zeini-Isfahani, A. Spectroscopic studies of Solophenyl red 3BL polyazo dye tautomerism in different solvents using UV-visible, ¹ H NMR and steady-state fluorescence techniques Dyes and Pigments, 69 (1-2), 93-101 (2006).

174.	8.	Heger, D., Klánová, J., Klán, P. Enhanced protonation of cresol red in acidic aqueous solutions caused by freezing Journal of Physical Chemistry B, 110 (3), 1277-1287 (2006).
175.	9.	Heger, D., Klán, P. Interactions of organic molecules at grain boundaries in ice: A solvatochromic analysis Journal of Photochemistry and Photobiology A: Chemistry, 187 (2-3), 275-284 (2007).
176.	10.	Wahbi, A.A., Hassan, E., Barary, M., Khamis, E., Hamdi, D. Derivative spectrophotometry in the visible region using absorbance versus log wavelength or wavenumber determination of cyanocobalamin in injection Pakistan Journal of Pharmaceutical Sciences, 20 (2), 93-99 (2007).
177.	11.	Dognon, J.-P., Clavaguéra, C., Pyykkö, P. Chemical properties of the predicted 32-electron systems Pu@Sn_{12} and Pu@Pb_{12} Comptes Rendus Chimie, 13 (6-7), 884-888 (2010).
178.	12.	Nedeltcheva, D., Kurteva, V., Topalova, I. Gas-phase tautomerism in hydroxy azo dyes-from 4-phenylazo-1-phenol to 4-phenylazo-anthracen-1-ol Rapid Communications in Mass Spectrometry, 24 (6), 714-720 (2010).
179.	13.	Parente, M., Makarewicz, H.D., Bishop, J.L. Decomposition of mineral absorption bands using nonlinear least squares curve fitting: Application to Martian meteorites and CRISM data Planetary and Space Science, 59 (5-6), 423-442 (2011).
180.	14.	Heger, D., Nachtigallová, D., Surman, F., Krausko, J., Magyarová, B., Brumovský, M., Rubeš, M., Gladich, I., Klán, P. Self-organization of 1-methylnaphthalene on the surface of artificial snow grains: A combined experimental-computational approach Journal of Physical Chemistry A, 115 (41), 11412-11422 (2011).
181.	15.	Zhu, Q., Gu, A., Li, D., Zhang, T., Xiang, L., He, M. Online recognition of drainage type based on UV-vis spectra and derivative neural network algorithm Frontiers of Environmental Science & Engineering, 15, art. no. 136 (2021).
182.	16.	Jędrzejczak, M., Wojciechowski, K. A numerical method of analyzing the composition of colored wastewater from dyeing plant International Journal of Environmental Science and Technology, doi: 10.1007/s13762-021-03208-2 (2021).
B.2. Resolution of overlapping UV-Vis absorption bands and quantitative analysis. L.Antonov & D.Nedeltcheva; <i>Chemical Society Reviews</i> , 29, 217-227 (2000)		
183.	1.	Santos, T.M., Madureira, J., Goodfellow, B.J., Drew, M.G.B., De Jesus, J.P., Félix, V. Interaction of ruthenium(II)-dipyridophenazine complexes with CT-DNA: Effects of the polythioether ancillary ligands Metal-Based Drugs, 8 (3), 125-136 (2001).
184.	2.	Workman Jr., J., Creasy, K.E., Doherty, S., Bond, L., Koch, M., Ullman, A., Veltkamp, D.J. Process analytical chemistry Analytical Chemistry, 73 (12), 2705-2718 (2001).
185.	3.	Liao, L., Pang, Y. A study on the vibrational structure of poly(phenylenevinylene)s via low-temperature UV-vis and fluorescence spectroscopy Journal of Materials Chemistry, 11 (12), 3078-3081 (2001).
186.	4.	Neumann, B. Resolution of absorption spectra of three azo dyes in monomeric state Dyes and Pigments, 52 (1), 47-53 (2002).
187.	5.	Tissue, B.M. Ultraviolet and visible absorption spectroscopy Characterization of Materials (E.N. Kaufmann, editor), 1 st edition, Wiley (2002)
188.	6.	Jansone, D., Fleisher, M., Andreeva, G., Leite, L., Popelis, J., Lukevics, E.

		Synthesis and photoisomerization of 3-cyano-6,6-dimethyl-4-(4-nitro- phenylvinyl)-5,6-dihydropyran-2-one Chemistry of Heterocyclic Compounds, 39 (12), 1584-1590 (2003).
189.	7.	Alsmeyer, F. Fortschritt-Berichte VDI, Reihe3:Verfahrenstechnik V-XII Fortschritt-Berichte VDI, Reihe 3: Verfahrenstechnik, 790 I-III,V-XII, 1-170
190.	8.	Alsmeyer, F., Koß, H.-J., Marquardt, W. Indirect spectral hard modeling for the analysis of reactive and interacting mixtures Applied Spectroscopy, 58 (8), 975-985 (2004).
191.	9.	Alsmeyer, F., Marquardt, W. Automatic generation of peak-shaped models Applied Spectroscopy, 58 (8), 986-994 (2004).
192.	10.	Pogocki, D.M. Wewnętrzne przemiany rodnikowe z udziałem utlenionego centrum siarkowego w modelowych związkach tioeterowych o znaczeniu biologicznym Habilitation thesis, Institute of Nuclear Chemistry and Technology, Warsaw, Poland, 81 (2004).
193.	11.	Marquardt, W. Model-based experimental analysis of kinetic phenomena in multi-phase reactive systems Chemical Engineering Research and Design, 83 (6 A), 561-573 (2005).
194.	12.	Brown, E.J. Hyperspectral Mapping of Ancient Hydrothermal Systems PhD Thesis, Macquarie University, Australia, 291 (2005).
195.	13.	Habibi, M.H., Hassanzadeh, A., Zeini-Isfahani, A. Spectroscopic studies of Solophenyl red 3BL polyazo dye tautomerism in different solvents using UV-visible, ¹ H NMR and steady-state fluorescence techniques Dyes and Pigments, 69 (1-2), 93-101 (2006).
196.	14.	Hassanzadeh, A., Zeini-Isfahani, A., Habibi, M.H. Molecular exciton theory calculations based on experimental results for Solophenyl red 3BL azo dye-surfactants interactions Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 64 (2), 464-476 (2006).
197.	15.	Nagy, P.I., Fabian, W.M.F. Theoretical study of the enol imine ↔ enamionone tautomeric equilibrium in organic solvents Journal of Physical Chemistry B, 110 (49), 25026-25032 (2006).
198.	16.	Wiznycia, A.V. The preparation and study of Bis(pyridyl-imine) and Monohelical salen-type complexes of iron and zinc PhD Thesis, Kansas State University, 131 (2006)
199.	17.	Fernández, E., García-Río, L., Mejuto, J.C., Parajó, M. Determination of pyridine-2-azo-p-dimethylaniline acidity constants by spectra resolution methodology Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 66 (4-5), 1102-1106 (2007).
200.	18.	García-Río, L., Godoy, A. Use of spectra resolution methodology to investigate surfactant/ β - cyclodextrin mixed systems Journal of Physical Chemistry B, 111 (23), 6400-6409 (2007).
201.	19.	García-Río, L., Hervella, P., Mejuto, J.C., Parajó, M. Spectroscopic and kinetic investigation of the interaction between crystal violet and sodium dodecylsulfate Chemical Physics, 335 (2-3), 164-176 (2007).
202.	20.	Ohta, K., Kamada, K. Theoretical approach to large two-photon absorption cross section in extended π -conjugated systems

		AIP Conference Proceedings, 963 (1), 389-405 (2007).
203.	21.	Sargsian, H.R., Belluyan, M.V., Markarian, S.A. Volumetric study of surfactant–dimethylsulfoxide–water system Proceedings of Yerevan State University, Natural Sciences, (1), 51-56 (2007).
204.	22.	Gibson D. Investigating the Kinetics and Structural Effects of Azo Dye Photochemistry Using NMR With In Situ Laser Irradiation and Ab Initio (DFT) Calculations PhD Thesis, University of Edinburg, UK, 184 (2007)
205.	23.	Costa, L., Brissos, V., Lemos, F., Ribeiro, F.R., Cabral, J.M.S. Following multi-component reactions in liquid medium using spectral band-fitting techniques Applied Spectroscopy, 62 (8), 932-935 (2008).
206.	24.	Kriesten, E., Alsmeyer, F., Bardow, A., Marquardt, W. Fully automated indirect hard modeling of mixture spectra Chemometrics and Intelligent Laboratory Systems, 91 (2), 181-193 (2008).
207.	25.	Bahmanyar, N., Haghbeen, K., Jamshidi, A., Mobedi, H., Evini, M., Mobedi, E. Studying the structural stability of leuprolide acetate after releasing from lactide-co-glycolide copolymer by different spectroscopic methods and HPTLC Iranian Polymer Journal (English Edition), 17 (5), 345-352 (2008).
208.	26.	Lórenz-Fonfria, V.A., Padrós, E. Method for the estimation of the mean lorentzian bandwidth in spectra composed of an unknown number of highly overlapped bands (2008) Applied Spectroscopy, 62 (6), 689-700 (2008).
209.	27.	Leyva, V., Corral, I., Schmierer, T., Heinz, B., Feixas, F., Migani, A., Blancafort, L., Gilch, P., González, L. Electronic states of o-nitrobenzaldehyde: A combined experimental and theoretical study Journal of Physical Chemistry A, 112 (23), 5046-5053 (2008).
210.	28.	Ghasemi, J.B., Mandoumi, N. A new algorithm for the characterization of thermodynamics of monomer-dimer process of dye stuffs by photometric temperature titration Acta Chimica Slovenica, 55 (2), 377-384 (2008).
211.	29.	Aguerssif, N., Benamor, M., Kachbi, M., Draa, M.T. Simultaneous determination of Fe(III) and Al(III) by first-derivative spectrophotometry and partial least-squares (PLS-2) method - Application to post-haemodialysis fluids Journal of Trace Elements in Medicine and Biology, 22 (3), 175-182 (2008).
212.	30.	Kriesten, E., Mayer, D., Alsmeyer, F., Minnich, C.B., Greiner, L., Marquardt, W. Identification of unknown pure component spectra by indirect hard modeling Chemometrics and Intelligent Laboratory Systems, 93 (2), 108-119 (2008).
213.	31.	Gao, F., Zhang, H., Guo, L., Garland, M. Application of the BTEM family of algorithms to reconstruct individual UV-Vis spectra from multi-component mixtures Chemometrics and Intelligent Laboratory Systems, 95 (1), 94-100 (2009).
214.	32.	Tan, S.-T., Zhu, H., Chew, W. Self-modeling curve resolution of multi-component vibrational spectroscopic data using automatic band-target entropy minimization (AutoBTEM) Analytica Chimica Acta, 639 (1-2), 29-41 (2009).
215.	33.	Ŝucha, V., Czímerová, A., Bujdák, J. Surface properties of illite-smectite minerals as detected by interactions with Rhodamine 6G dye Clays and Clay Minerals, 57 (3), 361-370 (2009).
216.	34.	Panea, I., Pelea, M., Coroş, M., Silaghi-Dumitrescu, L., Bâldea, I. The comparative study of the influences of the external factors on the UV-VIS absorption spectra of some potentially tautomeric azocoupling products Studia Universitatis Babes-Bolyai Chemia, 2, 15-31 (2009).
217.	35.	Khoury, S.J., Richter, D., Buss, V. Circular dichroism and theoretical calculations of pinacyanol dimer inclusion in γ -

		cyclodextrin Journal of Inclusion Phenomena and Macrocyclic Chemistry, 65 (3), 287-292 (2009).
218.	36.	Belay, A., Gholap, A.V. Determination of integrated absorption cross-section, oscillator strength and number density of caffeine in coffee beans by the integrated absorption coefficient technique International Journal of Physical Sciences, 4 (11), 722-728 (2009).
219.	37.	Gonen, Y., Rytwo, G. Using a Matlab Implemented Algorithm for UV-vis Spectral Resolution for pKa Determination and Multicomponent Analysis Analytical Chemistry Insights, 4, 21-27 (2009)
220.	38.	Androver, M., Frau, J., Caldés, C., Vilanova. B., Donoso, J., Muñoz, F. Impact of the ionic forms on the UV-Vis spectra 2 - hydroxybenzylamine. A TD - DFT study International Journal of Quantum Chemistry, 110 (12), 2179-2191 (2010)
221.	39.	Khoury, S.J., Buss, V. UV/Vis spectral study of the self-aggregation of pinacyanol chloride in ethanol-water solutions Journal of Solution Chemistry, 39 (1), 121-130 (2010).
222.	40.	Prabhu, A.A.M., Venkatesh, G., Sankaranarayanan, R.K., Siva, S., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 4-amino-2', 3-dimethylazobenzene Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 49 (4), 407-417 (2010).
223.	41.	Arantes, C., Rocco, A.M., Rocco, M.L.M. Spectroscopic investigation and characterization of polypyrrole film doped with [MeN ₄] ²⁺ [Ni(dmit) ₂] ⁻ complex salt Journal of Molecular Structure, 969 (1-3), 220-228 (2010).
224.	42.	Ion, R.-M. Derivative UV-Vis spectrophotometry for porphyrins interactions in photodynamic therapy Analytical Letters, 43 (7), 1277-1286 (2010).
225.	43.	Antony Muthu Prabhu, A., Venkatesh, G., Rajendiran, N. Azo-hydrazo tautomerism and inclusion complexation of 1-phenylazo-2- naphthols with various solvents and β -cyclodextrin Journal of Fluorescence, 20 (4), 961-972 (2010).
226.	44.	Skotak, M., Larsen, G. Visible light-absorbing biocompatible polymers based on L-lactide and aminosugars: Preparation and characterization Polymer International, 59 (10), 1331-1338 (2010).
227.	45.	Osacký, M., Šucha, V., Czímerová, A., Madejová, J. Reaction of smectites with iron in a nitrogen atmosphere at 75°C Applied Clay Science, 50 (2), 237-244 (2010).
228.	46.	Su, Y.-Z., Lin, L.-W., Chen, C.-Y., Hung, M.-W., Huang, K.-C. Resolution of overlapping skin auto-fluorescence for development of non-invasive applications Proceedings of SPIE - The International Society for Optical Engineering, 7797, art. 77970Y (2010).
229.	47.	Borge, J., Cadierno, V., Díez, J., García-Garrido, S.E., Gimeno, J. Novel push-pull butadienes derived from 1,1-diaryl-2-propyn-1-ols and 1,1,1,5,5,5-hexafluoro-2,4-pentanedione: Synthesis, absorption spectra and solvatochromic behaviour Dyes and Pigments, 87 (3), 209-217 (2010).
230.	48.	Mielniczek-Brzóška, E. The nature of Mn(II) complexes in concentrated aqueous ammonium oxalate solutions Crystal Research and Technology, 45 (12), 1295-1304 (2010).
231.	49.	Kassa, J.M. Chiral immunoaffinity chromatography in miniaturized systems PhD Thesis, Northern Illinois University, USA, 145 (2010)
232.	50.	Kenny, P.W., Taylor, P.J.

		The Prediction of Tautomer Preference in Aqueous Solution OpenEye Scientific Software (2010).
233.	51.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria, 36 (2010).
234.	52.	Hemmateenejad, B., Absalan, G., Hasanpour, M. Application of multivariate curve resolution analysis for studying the thermodynamics of methylene blue aggregations in aqueous solutions Journal of the Iranian Chemical Society, 8 (1), 166-175 (2011).
235.	53.	Su, Y.-Z., Hung, M.-W., Huang, K.-C., Lin, L.-W. Resolution of skin auto-fluorescence for non-invasive application Conference Record - IEEE Instrumentation and Measurement Technology Conference, art. 5944034, 695-698 (2011).
236.	54.	Khoury, S.J., Buss, V. Interaction of cationic cyanine dye with algal alginates: evidence for a polymer bound dye dimer Journal of Biophysical Chemistry, 2(4), 380-385 (2011).
237.	55.	Schmieder, T. Femtosekundenspektroskopie an o-substituierten Nitrobenzolen - von Modellen zu photolabilen Schutzgruppen Dissertation, LMU München, Germany, 150 (2011).
238.	56.	Li, J., Dai, L. A hard modeling approach to determine methanol concentration in methanol gasoline by Raman spectroscopy Sensors and Actuators, B: Chemical, 173, 385-390 (2012).
239.	57.	Tissue, B.M. Ultraviolet and visible absorption spectroscopy Characterization of Materials (E.N.Kaufmann, editor), 2 nd edition, Wiley (2012).
240.	58.	Khoury, S.J., Buss, V. Circular Dichroism and Derivative Spectra Study of the Excitonic Aggregation of Pinacyanol by Aerosol-OT Open Journal of Physical Chemistry, 2, 34-40 (2012).
241.	59.	De, S., Ray, M., Pati, A.Y., Das, P.K. Base triggered enhancement of first hyperpolarizability of a keto-enol tautomer Journal of Physical Chemistry B, 117 (48), 15086-15092 (2013).
242.	60.	Belay A. Determination the Optical Transition Probabilities and Number Densities of Ethidium Bromide (EB) in Hetero-Association by Integrated Absorption Coefficient Techniques Journal of Biological and Chemical Research, 30 (2), 451-465 (2013).
243.	61.	Perras, F.A., Bryce, D.L. Boron-boron J coupling constants are unique probes of electronic structure: A solid-state NMR and molecular orbital study Chemical Science, 5 (6), 2428-2437 (2014).
244.	62.	Beenken, W., Presselt, M., Ngo, T.H., Dehaen, W., Maes, W., Kruk, M. Molecular structures and absorption spectra assignment of corrole NH tautomers Journal of Physical Chemistry A, 118 (5), 862-871 (2014).
245.	63.	Francos, J., Borge, J., Díez, J., García-Garrido, S.E., Cadierno, V. Easy entry to donor/acceptor butadiene dyes through a MW-assisted InCl ₃ -catalyzed coupling of propargylic alcohols with indan-1,3-dione in water Catalysis Communications, 63, 10-14 (2015).
246.	64.	Shvarov, Y. A suite of programs, OptimA, OptimB, OptimC, and OptimS compatible with the Unitherm database, for deriving the thermodynamic properties of aqueous species from solubility, potentiometry and spectroscopy measurements Applied Geochemistry, 55, 17-27 (2015).
247.	65.	Li, X., Hou, D.B., Huang, P.J., Cai, J.H., Zhang, G.X.

		Component spectra extraction from terahertz measurements of unknown mixtures Applied Optics, 54 (30), 8925-8934 (2015).
248.	66.	Man, M.T., Lee, H.S. Interband transition and confinement of charge carriers in CdS and CdS/CdSe quantum dots Applied Science and Convergence Technology, 24 (5), 167-171 (2015).
249.	67.	Hanks, E.A. Silver nanoparticle and silver ion water contamination: assessment of phytoremediation and point-of-use filtration media PhD dissertation, University of Cincinnati, USA, 39 (2015).
250.	68.	Franco, J., García-Garrido, S.E., Borge, J., Suárez, F.J., Cadierno, V. Butadiene dyes based on 3-(dicyanomethylidene)indan-1-one and 1,3-bis(dicyanomethylidene)indane: Synthesis, characterization and solvatochromic behaviour RSC Advances, 6 (9), 6858-6867 (2016).
251.	69.	Elguero, J. Tautomerism: A Historical Perspective Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 1-10 (2016).
252.	70.	Castet, F., Champagne, B. Switching of the Nonlinear Optical Responses of Anil Derivatives: From Dilute Solutions to the Solid State Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 175-202 (2016).
253.	71.	Vershilovskaya, I.V., Stefani, S., Verstappen, P., Ngo, T.H., Scheblykin, I.G., Dehaen, W., Maes, W., Kruk, M.M. Spectral-luminescent properties of meso-tetraarylporphyrins revisited: The role of aryl type, substitution pattern and macrocycle core protonation Macromolecules, 10 (3), 257-267 (2017).
254.	72.	Frank, P., Szilagy, R.K., Gramlich, V., Hsu, H.-F., Hedman, B., Hodgson, K.O. Spin-Polarization-Induced Pre-edge Transitions in the Sulfur K-Edge XAS Spectra of Open-Shell Transition-Metal Sulfates: Spectroscopic Validation of σ -Bond Electron Transfer Inorganic Chemistry, 56 (3), 1080-1093 (2017).
255.	73.	Abtahi, S.M.H., Burrows, N.D., Idris, F.A., Murphy, C.J., Saleh, N.B., Vikesland, P.J. Sulfate-Mediated End-to-End Assembly of Gold Nanorods Langmuir, 33 (6), 1486-1495 (2017).
256.	74.	Wojciechowski, K., Jedrzejczak, M. Photochemical Degradation of Disazo Dyes, R-Salt Derivatives, on Dyed Cotton Journal of Natural Fibers, 14 (3), 346-356 (2017).
257.	75.	Fornacelli, C., Ceglie, A., Bracci, S., Vilarigues, M. The role of different network modifying cations on the speciation of the Co^{2+} -complex in silicates and implication in the investigation of historical glasses Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 188, 507-515 (2018).
258.	76.	Muelleman, A.W., Glaser, R.E. Learning to Read Spectra: Teaching Decomposition with Excel in a Scientific Writing Course Journal of Chemical Education, 95 (3), 476-481 (2018).
259.	77.	Mátyás, B., Bautista, G., Szarka, M., Serrano, V., Morales Arteaga, J., Loja, D., Yaguana, S.G., Gómez, F., Ramírez-Cando, L.J. Decision support algorithm for the selection of analytical methods in organic compounds detection for future extraterrestrial exploratory missions Electrophoresis, 39 (22), 2884-2889 (2018).
260.	78.	Khodadadi Karimvand, S., Abdollahi, H. Chemometrical study of spectral curve fitting constraint on self-modelling curve resolution methods Journal of Chemometrics, 32 (12), art. e3074 (2018).
261.	79.	Woodford, O.J., Ziessel, R., Harriman, A.

		Photofading of an Extended BOPHY Chromophore Dispersed in Poly(methyl methacrylate) as a Chemical Actinometer ChemPhotoChem, 2 (12), 1046-1054 (2018).
262.	80.	Israr, S., Israr, F. Studies on computational chemistry and complexation behavior between Poly(styrene-co-methacrylic acid) and Poly(styrene-co-4-vinylpyridine) Moroccan Journal of Chemistry, 7 (1), 123-131 (2019).
263.	81.	Furukawa, O. Prevention of false peak detection of brillouin gain spectrum by using peak tracking and trend analysis IEEJ Transactions on Fundamentals and Materials, 139 (11), 539-544 (2019).
264.	82.	Turner, M.A.P., Horbury, M.D., Stavros, V.G., Hine, N.D.M. Determination of Secondary Species in Solution through Pump-Selective Transient Absorption Spectroscopy and Explicit-Solvent TDDFT Journal of Physical Chemistry A, 123 (4), 873-880 (2019).
265.	83.	Cui, Z., Song, H., Ge, S., He, W., Liu, Y. Fabrication of BiOCl/BiOBr hybrid nanosheets with enhanced superoxide radical dominating visible light driven photocatalytic activity Applied Surface Science, 467-468, 505-513 (2019).
266.	84.	La Cruz, T.E., Carvalho, T.C., Ramírez, A., Tábor, J.E. Implementation of a mathematical model for the photochemical kinetics of a solid form active pharmaceutical ingredient International Journal of Pharmaceutics, 566, 500-512 (2019).
267.	85.	Mátyás, B., Bautista, G. Authors' reply to the commentary in the journal of Electrophoresis regarding "Decision support algorithm for the selection of analytical methods in organic compounds detection for future extraterrestrial exploratory missions" Electrophoresis, 40 (20), 2664 (2019).
268.	86.	Járvás, G., Guttman, A. Commentary regarding "Decision support algorithm for the selection of analytical methods in organic compounds detection for future extraterrestrial exploratory missions" Electrophoresis, 40 (20), 2662-2663 (2019).
269.	87.	Markarian, S.A., Ghazoyan, H.H., Sargsyan, H.R., Shahinyan, G.A. Thermodynamic and Spectroscopic (UV-Vis, FT IR) Studies of Solutions of CoCl_2 (or NiCl_2) in Diethylsulfoxide Journal of Solution Chemistry, 48 (10), 1378-1392 (2019).
270.	88.	Walshe, J., Amarandei, G., Ahmed, H., McCormack, S., Doran, J. Development of poly-vinyl alcohol stabilized silver nanofluids for solar thermal applications Solar Energy Materials and Solar Cells, 201, art. 110085 (2019).
271.	89.	Higareda, A., Kumar-Krishnan, S., García-Ruiz, A.F., Maya-Cornejo, J., Lopez-Miranda, J.L., Bahena, D., Rosas, G., Pérez, R., Esparza, R. Synthesis of Au@Pt core-shell nanoparticles as efficient electrocatalyst for methanol electro-oxidation Nanomaterials, 9 (11), art. 1644 (2019).
272.	90.	Ai, X., Wang, Z., Cheong, H., Wang, Y., Zhang, R., Lin, J., Zheng, Y., Gao, M., Xing, B. Multispectral optoacoustic imaging of dynamic redox correlation and pathophysiological progression utilizing upconversion nanoprobe Nature Communications, 10 (1), art. 1087 (2019).
273.	91.	Zheng, W., Liu, M., Lee, L.Y.S. Electrochemical instability of metal-organic frameworks: In situ spectroelectrochemical investigation of the real active sites ACS Catalysis, 10 (1), 81-92 (2020).
274.	92.	Jones, C., An, S.J., Yoon, Y.K., Kothari, S., Sahastrabudhe, S., Carbis, R. Spectroscopic characterisation of a series of Salmonella Typhi Vi-diphtheria toxoid glycoconjugate antigens differing in polysaccharide-protein ratio Journal of Pharmaceutical and Biomedical Analysis, 181, art. 113100 (2020).

275.	93.	Lavrinenko, I.A., Holyavka, M.G., Chernov, V.E., Artyukhov, V.G. Second derivative analysis of synthesized spectra for resolution and identification of overlapped absorption bands of amino acid residues in proteins: Bromelain and ficin spectra in the 240-320 nm range Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 227, art. 117922 (2020).
276.	94.	Yang, M., Zhou, Y.-N., Cao, Y.-N., Tong, Z., Dong, B., Chai, Y.-M. Advances and Challenges of Fe-MOFs Based Materials as Electrocatalysts for Water Splitting Applied Materials Today, 20, art. no. 100692 (2020).
277.	95.	Trnková, L., Třísková, I. Application of the elimination principle in spectral experiments Workshop of biophysical chemists and electrochemists, 64-65 (2020).
278.	96.	Smith, A. T., Ding, H., Gorski, A., Zhang, M., Gitman, P. A., Park, C., Hao, Z., Jiang, Y., Williams, B. L., Zeng, S., Kokkula, A., Yu, Q., Ding, G., Zeng, H., Sun, L. Multi-color Reversible Photochromisms via Tunable Light-Dependent Responses Matter, 2 (3), 680-696 (2020).
279.	97.	Scheutz, G.M., Rowell, J.L., Wang, F.-S., Abboud, K.A., Peng, C.-H., Sumerlin, B.S. Synthesis of functional 1,2-dithiolanes from 1,3-bis-(tert-butyl thioethers Organic and Biomolecular Chemistry, 18 (33), 6509-6513 (2020).
280.	98.	Jones, C. Glycoconjugate vaccine batch consistency assessed by objective comparison of circular dichroism spectra Journal of Pharmaceutical and Biomedical Analysis, 191, art. no. 113571 (2020).
281.	99.	Furukawa, O. Prevention of false peak detection of Brillouin gain spectrum by using peak tracking and trend analysis Electronics and Communications in Japan, 103 (1-4), 3-9 (2020).
282.	100.	Maya-Cornejo, J., Diaz-Real, J.A., Lopez-Miranda, J.L., Álvarez-Contreras, L., Esparza, R., Arjona, N., Estévez, M. Formation of Cu@Pd core@shell nanocatalysts with high activity for ethanol electro-oxidation in alkaline medium Applied Surface Science, 538, art. no. 148119 (2021).
283.	101.	Klán, P., Heger, D. Spectroscopy and photochemistry of organic compounds in ice Photochemistry, 48, 423-444 (2021).
284.	102.	Anu, Yadav, K., Gaur, A., Haldar, K.K. Effect of oxygen vacancies, lattice distortions and secondary phase on the structural, optical, dielectric and ferroelectric properties in Cd-doped Bi ₂ TiO ₇ nanoparticles Materials Research Bulletin, 141, art. no. 111373 (2021).
285.	103.	Dolia, V., James, A.L., Chakrabarty, S., Jasuja, K. Dissimilar adsorption of higher-order aggregates compared with monomers and dimers of methylene blue on graphene oxide: An optical spectroscopic perspective, Carbon Trends, 4, art. no. 100066 (2021).
286.	104.	Jones, C. Wavelength Calibration Uncertainty in Protein Circular Dichroism Data Bank Spectra Applied Spectroscopy, doi: 10.1177/0003702821990748 (2021).
287.	105.	Jones, C. Impact of Imperfect Data on the Performance of Algorithms to Compare Near-Ultraviolet Circular Dichroism Spectra Applied Spectroscopy, doi: 10.1177/0003702821992370 (2021).
288.	106.	Jędrzejczak, M., Wojciechowski, K. A numerical method of analyzing the composition of colored wastewater from dyeing plant International Journal of Environmental Science and Technology, doi: 10.1007/s13762-021-03208-2 (2021).

B.3. Chemometric models for quantitative analysis of tautomeric Schiff bases and azodyes. D.Nedeltcheva, <u>L.Antonov</u> , A.Lycka, B.Damyanova & S.Popov; <i>Current Organic Chemistry</i> , 13 , 217-240 (2009)		
289.	1.	Schilf, W. Books and reviews Nuclear Magnetic Resonance, 40, 1-36 (2011).
290.	2.	Martyniak, A., Lipkowski, P., Boens, N., Filarowski, A. Electron-topological, energetic and π -electron delocalization analysis of ketoenamine-enolimine tautomeric equilibrium Journal of Molecular Modeling, 18 (1), 257-263 (2012).
291.	3.	Chen, X.-C., Tao, T., Wang, Y.-G., Peng, Y.-X., Huang, W., Qian, H.-F. Azo-hydrazone tautomerism observed from UV-vis spectra by pH control and metal-ion complexation for two heterocyclic disperse yellow dyes Dalton Transactions, 41 (36), 11107-11115 (2012).
292.	4.	Schilf, W., Kamieński, B., Užarević, K. Nitrogen and carbon CPMAS NMR investigations of keto-enol tautomerism in asymmetric o-hydroxy Schiff bases Journal of Molecular Structure, 1031, 211-215 (2013).
293.	5.	Abood Hameed, S., Alrouby, S.K., Hilal, R. Design of molecular switching and signaling based on proton transfer in 2-hydroxy Schiff bases: A computational study Journal of Molecular Modeling, 19 (2), 559-569 (2013).
294.	6.	Schilf, W., Kamieński, B., Szady-Chełmieniecka, A., Kołodziej, B., Grech, E., Zarzecznańska, D., Wcisło, A., Ossowski, T. Structure investigation of intramolecular hydrogen bond in some substituted salicylaldehydes and 4-aminoantipyrene derivatives in solution and in the solid state Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 109, 47-54 (2013).
295.	7.	Irshaidat, T. Properties of Molecular Materials: the Effect of the N-H/B Substitution on the Electronic Structure of 2-Hydroxybenzaldimine Asian Journal of Research in Chemistry, 6 (6), 577-583 (2013).
296.	8.	Mirković, J., Rogan, J., Poleti, D., Vitnik, V., Vitnik, Ž., Ušćumlić, G., Mijin, D. On the structures of 5-(4-, 3- and 2-methoxyphenylazo)-3-cyano-1-ethyl-6- hydroxy-4-methyl-2-pyridone: An experimental and theoretical study Dyes and Pigments, 104, 160-168 (2014).
297.	9.	Irshaidat, T. Molecular properties and H-bonding in N-8-quinolinyl-2-hydroxynaphthaldimine and its Azo-analogue Journal of the Chemical Society of Pakistan, 36 (6), 1071-1078 (2015).
298.	10.	Irshaidat, T. Aromaticity versus Soft-Soft Interaction: A DFT Study on Consequences of the O-H/Au Substitution in N-Methyl Salicylaldimine International Journal of Molecular Modeling, 7 (1), 53-63 (2015).
299.	11.	Fabian, W.M.F., Ali, S.T. Design of molecular switches and sensors based on proton transfer - Theory vs. experiment AIP Conference Proceedings, 1642, 465-468 (2015).
300.	12.	Wang, Y.-H., Qian, H.-F., Feng, Y.-N., Huang, W. Tautomerism, crystal structure, and copper(II) complexation of isomeric pyridonylazo dyes derived from 2- and 4-aminobenzoic acids Coloration Technology, 132 (6), 433-440 (2016).
301.	13.	Zuttermann, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B. Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines

		Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
302.	14.	Marrero-Carballo, R., Tun-Rosado, F., Mena-Rejón, G.J., Cáceres-Castillo, D., Barroso, J., Murillo, F., Merino, G., Quijano-Quiñones, R.F. The base-catalyzed keto-enol tautomerism of chrysophanol anthrone. A DFT investigation of the base-catalyzed reaction Molecular Simulation, 45 (9), 716-723 (2019).
303.	15.	Qian, H.-F., Geng, J., Xu, D., Huang, W. Hydrazone to deprotonated azo/azo-enol transformation for isomeric pyrazolone based heterocyclic dyes via metal-ion complexation Dyes and Pigments, 160, 853-862 (2019).
304.	16.	Omotayo, I.A., Kolawole, O.A., Banjo, S. Thermodynamics and kinetics of hydrogen transfer mechanism in 1-[(E)-1, 3-benzothiazol-2-ylazo]naphthalen-2-ol tautomers in aqueous medium/ density functional theory Iraqi Journal of Science, 60 (4), 677-687 (2019).
305.	17.	Matovic, L., Ladarevic, J., Vitnik, Ž., Vitnik, V., Mijin, D. A detailed UV-Vis spectral investigation of six azo dyes derived from benzoic- and cinnamic acids: experimental and theoretical insight Comptes Rendus Chimie, 24 (2), 267-280 (2021).
B.4. Excited-state intramolecular proton transfer: a short introductory review. H.C.Joshi & L.Antonov; <i>Molecules</i> , 26 , art. 1475 (2021)		
306.	1.	Petdee, S., Chaiwai, C., Benchaphanthawee, W., Nalaoh, P., Kungwan, N., Namuangruk, S., Sudyoasak, T., Promarak, V. Imidazole-Based Solid-State Fluorophores with Combined ESIPT and AIE Features as Self-Absorption-Free Non-doped Emitters for Electroluminescent Devices Dyes and Pigments, doi: 10.1016/j.dyepig.2021.109488 (2021).
307.	2.	Chansen, W., Kungwan, N. Theoretical Insights into Excited-State Intermolecular Proton Transfers of 2,7-Diazaindole in Water Using a Microsolvation Approach Journal of Physical Chemistry A, doi: 10.1021/acs.jpca.1c03120 (2021).
C.1. Quantitative analysis of azo-quinonehydrazone tautomeric equilibrium. S.Stoyanov & L.Antonov; <i>Dyes and Pigments</i> , 10 , 33-45 (1988)		
308.	1.	Peng, Q., Li, M., Gao, K., Cheng, L. Hydrazone-azo tautomerism of pyridone azo dyes: Part II: Relationship between structure and pH values Dyes and Pigments, 15 (4), 263-274 (1991).
309.	2.	Baughman, G.L., Weber, E.J. Estimation of water solubility and octanol/water partition coefficient of hydrophobic dyes. Part I: Relationship between solubility and partition coefficient Dyes and Pigments, 16 (4), 261-271 (1991).
310.	3.	O'Shea, K.E., Kirmse, K.M. Fox, M.A., Johnston, K.P. Polar and hydrogen-bonding interactions in supercritical fluids: effects on the tautomeric equilibrium of 4-(phenylazo)-1-naphthol Journal of Physical Chemistry, 95 (20), 7863-7867 (1991).
311.	4.	Fedorov, L.A. Solid state ¹³ C NMR spectra and intermolecular tautomerism of 4-aryloxy-1-naphthols Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 40 (10), 2017-2022 (1991).
312.	5.	Zollinger, H. Color Chemistry, 2 nd edition, VCH, p. 136 (1991).
313.	6.	Peng, Q., Li, M., Gao, K., Cheng, L. Hydrazone-azo tautomerism of pyridone azo dyes. Part III-effect of dye structure and solvents on the dissociation of pyridone azo dyes Dyes and Pigments, 18 (4), 271-286 (1992).
314.	7.	Ertan, N., Eydurhan, F. The synthesis of some heteroaryloxy pyridone dyes and solvent effects on their absorption spectra

		Dyes and Pigments, 27 (4), 313-320 (1995).
315.	8.	Ertan, N., Gürkan, P. Synthesis and properties of some azo pyridone dyes and their Cu(II) complexes Dyes and Pigments, 33 (2), 137-147 (1997).
316.	9.	Wojciechowski, K., Szadowski, J. Effect of the sulphonic group position on the properties of monoazo dyes Dyes and Pigments, 44 (2), 137-147 (2000).
317.	10.	Jimenez-Cruz, F., Perez-Caballero, G., Hernandez-Ortega, S., Rubio-Arroyo, M. 2-(4-Methoxyphenyl-azo)-4-phenyl-phenol Acta Crystallographica, C56, 1028-1029 (2000).
318.	11.	Cheon, K.-S., Park, Y.S., Kazmaier, P.M., Buncel, E. Studies of azo-hydrazone tautomerism and H-bonding in azo-functionalized dendrimers and model compounds Dyes and Pigments, 53 (1), 3-14 (2002).
319.	12.	Wojciechowski, K., Wyřbak, A., Gumulak, J. Direct dyes derived from iso- and terephthalic acids Dyes and Pigments, 56 (2), 99-109 (2003).
320.	13.	Hihara, T., Okada, Y., Morita, Z. Azo-hydrazone tautomerism of phenylazonaphthol sulfonates and their analysis using the semiempirical molecular orbital PM5 method Dyes and Pigments, 59 (1), 25-41 (2003).
321.	14.	Wyřbak, A., Wojciechowski, K. Composition of direct dyes resembling phthalic acids Przegląd Włokienniczy, (8), 28-33 (2003).
322.	15.	Zollinger, H. Color Chemistry, 3 rd edition, Verlag Helvetica Chimica Acta, p. 193 (2003).
323.	16.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
324.	17.	Çakir, S., Biçer, E., Odabasoglu, M., Albayrak, Ç. Electrochemical and Spectroscopic Study of 4-(Phenyldiazenyl)-2-[[tris-(hydroxymethyl)methyl]aminomethylene]cyclohexa-3,5-dien-1(2H)-one. Mechanism of the Azo and Imine Electroreduction Journal of Brazilian Chemical Society, 16 (4), 711-717 (2005).
325.	18.	Odabaşoğlu, M., Albayrak, C., Özkanca, R., Aykan, F.Z., Lonecke, P. Some polyhydroxy azo-azomethine derivatives of salicylaldehyde: Synthesis, characterization, spectroscopic, molecular structure and antimicrobial activity studies Journal of Molecular Structure, 840 (1-3), 71-89 (2007).
326.	19.	Panea, I., Pelea, M., Silberg, I.A. Azocoupling products VI. The sensitivity to external factors of the UV-vis absorption spectra of the azocoupling product between 1-(4-hydroxy-6-methyl-pyrimidin-2-yl)-3-methylpyrazolin-5-one and 4-(N,N-dimethyl) aminobenzenediazonium salt Dyes and Pigments, 74 (1), 113-122 (2007).
327.	20.	Wojciechowski, K., Szymczak, A. The research of the azo-hydrazone equilibrium by means of AM1 method based on the example of an azo dye - the Schäffer salt derivative Dyes and Pigments, 75 (1), 45-51 (2007).
328.	21.	La, J.Q.-H., Michaelides, A.A., Manderville, R.A. Tautomeric equilibria in phenolic a-ring derivatives of prodigiosin natural products Journal of Physical Chemistry B, 111 (40), 11803-11811 (2007).
329.	22.	Larciprete, M.C., Dini, D., Ostuni, R., Sibilia, C., Bertolotti, M., Alvarez-Mico, X., Gomez-Bombarelli, R., Cappeddu, M., Scalora, M., Bloemer, M.J. Optical switching of a photochromic bis-phenylazo compound in PMMA films Journal of Materials Science, 42 (18), 7866-7871 (2007).
330.	23.	Biçer, E., Arat, C.

		Voltammetric behaviours of Zn(II) and Ni(II) complexes with acid red 1 at mercury electrode Journal of the Chilean Chemical Society, 53 (4), 1734-1739 (2008).
331.	24.	Kenny, P.W., Taylor, P.J. The Prediction of Tautomer Preference in Aqueous Solution OpenEye Scientific Software (2010).
332.	25.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
333.	26.	Fragoza-Mar, L., Pérez-Caballero, G., García-Gutierrez, J.L., Jiménez-Cruz, F. Modeling and theory in resonance assisted hydrogen bonding (RAHB) systems: β -diketones (OHO) and arylazophenols (NHO) Molecular Systems: Theory and Modeling (F.Jiménez-Cruz, J.L.García-Gutiérrez, editors), 97-122, Transworld Research Network (2011).
334.	27.	Ghanadzadeh Gilani, A., Moghadam, M., Zakerhamidi, M.S., Moradi, E. Solvatochromism, tautomerism and dichroism of some azoquinoline dyes in liquids and liquid crystals Dyes and Pigments, 92 (3), 1320-1330 (2012).
335.	28.	Mirković, J.M., Ušćumlić, G.S., Marinković, A.D., Mijin, D.Z. Azo-hydrazone tautomerism of aryl azo pyridone dyes Hemijska Industrija, 67 (1), 1-15 (2013).
336.	29.	Kakanejadifard, A., Azarbani, F., Zabardasti, A., Kakanejadifard, S., Ghasemian, M., Esna-Ashari, F., Omid, S., Shirali, S., Rafieefar, M. The synthesis, structural characterization and antibacterial properties of some 2-((4-amino-1,2,5-oxadiazol-3-ylimino)methyl)-4-(phenyldiazenyl)phenol Dyes and Pigments, 97 (1), 215-221 (2013).
337.	30.	Nicolás-Vázquez, I., Pérez-Caballero, G., Jiménez, A.G., Rangel, G.G., Ruvalcaba, R.M. A novel azocompound, 2-(4-phenylazoaniline)-4-phenylphenol: Spectroscopic and quantum-chemical approach International Journal of Quantum Chemistry, 113 (8), 1107-1115 (2013).
338.	31.	Mirković, J.M., Ušćumlić, G.S., Marinković, A.D., Mijin, D.Z. Azo-hydrazone tautomerism of aryl azo pyridone dyes Hemijska industrija, 67 (1), 1-15 (2013).
339.	32.	Ghasemian, M., Kakanejadifard, A., Azarbani, F., Zabardasti, A., Kakanejadifard, S. Spectroscopy and solvatochromism studies along with antioxidant and antibacterial activities investigation of azo-azomethine compounds 2-(2-hydroxyphenylimino)methyl-4-phenyldiazenylphenol Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 124, 153-158 (2014).
340.	33.	Ghasemian, M., Kakanejadifard, A., Azarbani, F., Zabardasti, A., Kakanejadifard, S. The triazine-based azo-azomethine dyes; Spectroscopy, solvatochromism and biological properties of 2,2'-((2,2'-(6-methoxy-1,3,5-triazine-2,4-diyl) bis(oxy))bis(2,1-phenylene))bis(azan-1-yl-1-ylidene))bis(methan-1-yl-1-ylidene))bis(4-phenyldiazenyl)phenol Journal of Molecular Liquids, 195, 35-39 (2014).
341.	34.	Ghasemian, M., Kakanejadifard, A., Azarbani, F., Zabardasti, A., Shirali, S., Saki, Z., Kakanejadifard, S. The triazine-based azo-azomethine dyes; synthesis, characterization, spectroscopy, solvatochromism and biological properties of 2,2'-(((6-methoxy-1,3,5-triazine-2,4-diyl)bis(sulfanediy))bis(2,1-phenylene))bis(azanylylidene))bis(methanylylidene))bis(4-(phenyldiazenyl)phenol) Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 138, 643-647 (2015).
342.	35.	Wu, Z., Zhang, R., Rong, Z. Azo-hydrazone tautomerisms of azodyes Journal of Chemical Industry and Engineering, 66 (1), 52-59 (2015).

343.	36.	Christie, R. Colour Chemistry, RSC, 2nd edition, p. 98 (2015).
344.	37.	Ghasemian, M., Kakanejadifard, A., Karami, T. Synthesis, structural characterization, antimicrobial activities and theoretical investigations of some 4-(4-aminophenylsulfonyl) phenylimino) methyl)-4-(aryldiazenyl) phenol Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 168, 190-198 (2016).
345.	38.	Moradi Rufchahi, E.O., Ghanadzadeh Gilani, A. Aryl and heteroaryl azo dyes derived from 6, 8-dichloro-4-hydroxyquinolin-2 (1H)-one: synthesis, characterisation, solvatochromism and spectroscopic properties Coloration Technology, 135 (5), 391-406 (2019).
C.2. Thione-thiol tautomerism and stability of 2- and 4-mercaptopyridines and 2-mercaptopyrimidine. S.Stoyanov, I.Petkov, L.Antonov, T.Stoyanova, P.Karagiannidis & P.Aslanidis; <i>Canadian Journal of Chemistry</i> , 68 , 1482-1489 (1990)		
346.	1.	Breitenbach, J., Nieger, M., Vögtle, F. 7,15 - Dihydroxy[2.2](2,6)pyridinophan: Darstellung über selenoorganische Stufen und Aggregation durch Wasserstoff - Brückenbindungen Chemische Berichte, 124 (11), 2583-2586 (1991).
347.	2.	Vögtle, F., Breitenbach, J., Nieger, M. The first [2.2]pyridonophane: preparation, structure and hydrogen bond pattern with water Journal of the Chemical Society, Chemical Communications, 860-862 (1991).
348.	3.	Etter, M.C., MacDonald, J.C., Wanke, R.A. Solution and solid-state aggregation properties of 4-mercaptopyridine-4-thiopyridone Journal of Physical Organic Chemistry, 5 (4), 191-200 (1992).
349.	4.	Vlassa, M., Silberg, L., Afloroaei, C. A new rearrangement of heterocyclic isothiocyanates Heterocyclic Communications, 1 (1), 55-58 (1994).
350.	5.	Contreras, J.G., Seguel, G.V., Alderete, J.B. The vibrational spectra of some 2-mercaptopyrimidine complexes of mercury(II) Spectrochimica Acta Part A: Molecular Spectroscopy, 50 (2), 371-374 (1994).
351.	6.	Reszka, K.J., Chignell, C.F. PHOTOCHEMISTRY OF 2 - MERCAPTOPYRIDINES. PART 1. AN EPR AND SPIN - TRAPPING INVESTIGATION USING 5,5 - DIMETHYL - PYRROLINE N - OXIDE IN AQUEOUS AND TOLUENE SOLUTIONS Photochemistry and Photobiology, 60 (5), 442-449 (1994).
352.	7.	Raper, E.S. Copper complexes of heterocyclic thioamides and related ligands Coordination Chemistry Reviews, 129 (1-2), 91-156 (1994).
353.	8.	Wang, J., Gilson, D.F.R. Variable-temperature and -pressure vibrational spectroscopic studies of solid 2-thiopyridone and 2-pyridone Journal of Molecular Structure, 324 (1-2), 83-91 (1994).
354.	9.	Contreras, J.G., Alderete, J.B. Ab initio SCRF study of the tautomeric equilibrium of 2-thiopyrimidine Chemical Physics Letters, 232 (1-2), 61-66 (1995).
355.	10.	Contreras, J.G., Alderete, J.B. MO studies on the prototropic tautomerism and protonation of 2-thiopurine Journal of Molecular Structure: THEOCHEM, 334 (2-3), 223-228 (1995).
356.	11.	Surga, W.J., Wisniewski, M.Z., Repka, A. Coordination compounds of ruthenium(III), rhodium(III), palladium(II) and platinum(II) with 2-mercaptopyrimidine Polish Journal of Chemistry, 69 (4); 540-545 (1995).
357.	12.	Couce, M.D., Cherchi, V., Faraglia, G., Russo, U., Sindellari, L., Valle, G., Zancan, N. Synthesis and characterization of organotin complexes with 2-mercaptopyridine derivatives

		Applied Organometallic Chemistry, 10 (1), 35-45 (1996).
358.	13.	Raper, E.S. Complexes of heterocyclic thionates. Part 1. Complexes of monodentate and chelating ligands Coordination Chemistry Reviews, 153, 199-255 (1996).
359.	14.	Couce, M.D., Faraglia, G., Russo, U., Sindellari, L., Valle, G. Synthesis, characterisation and X-ray crystal structures of diorganotin(IV) complexes with 2-mercaptopyridine derivatives Journal of Organometallic Chemistry, 513 (1-2), 77-83 (1996).
360.	15.	Alderete, J.B., Madariaga, S., Quiroga, J., Braulio Insuasty, Y. Estudio teorico y de RMN De15N De 6-amino-4-oxopirimidinas Boletin de la Sociedad Chilena de Quimica, 41 (4), 355-362 (1996).
361.	16.	Baldwin, J., Schühler, N., Butler, I.S., Andrews, M.P. Integrated optics evanescent wave surface enhanced Raman scattering (IO-EWERS) of mercaptopyridines on a planar optical chemical bench: Binding of hydrogen and copper ion Langmuir, 12 (26), 6389-6398 (1996) .
362.	17.	Jung, H.S., Kim, K., Kim, M.S. Raman spectroscopic investigation of the adsorption of 4-mercaptopyridine on a silver-sol surface Journal of Molecular Structure, 407 (2-3), 139-147 (1997) .
363.	18.	Davies, S.C., Durrant, M.C., Hughes, D.L., Leidenberger, K., Stapper, C., Richards, R.L. Copper complexes of 1,3-bis(2-pyridyl)-1-thiopropane (bpt) and pyridine-2(1H)-thione. Crystal structure of $[\{Cu(\mu-O_2CMe)_2(bpt)\}_2]$ and metal-promoted cleavage of bpt Journal of the Chemical Society - Dalton Transactions, (14), 2409-2418 (1997).
364.	19.	Raper, E.S. Complexes of heterocyclic thionates Part 2: Complexes of bridging ligands Coordination Chemistry Reviews, 165, 475-567 (1997).
365.	20.	Couce, M.D., Faraglia, G., Russo, U., Sindellari, L., Valle, G., Furlani, A., Scarcia, V. 2-Mercaptopyridine derivatives as neutral or ionic donors towards tin tetrahalides New Journal of Chemistry, 21 (10), 1103-1111 (1997).
366.	21.	M. T. Molina, M.T., Yáñez, M., Mó, O., Notario, R., Abboud, J.-L.M. The thiocarbonyl group The chemistry of double-bonded functional groups (S.Patai, editor), Wiley, 1355-1496 (1997).
367.	22.	Davis, J.J., Allen, H., Hill, O., Yamada, R., Naohara, H., Uosaki, K. Scanning tunnelling microscopy study of the self assembly of 2-mercaptopyrimidine and 4,6-dimethyl-2-mercaptopyrimidine on Au(111) Journal of the Chemical Society - Faraday Transactions, 94 (9), 1315-1319 (1998).
368.	23.	Alam, M.M., Fujitsuka, M., Watanabe, A., Ito, O. Laser photolysis study of photochemical reactions of triplet states of pyridinethiones Journal of the Chemical Society. Perkin Transactions 2, (4), 817-824 (1998).
369.	24.	Pang, Y.S., Hwang, H.J., Kim, M.S. Adsorption of 2-mercaptopyridine and 2-mercaptopyrimidine on a silver colloidal surface investigated by Raman spectroscopy Journal of Molecular Structure, 441 (1), 63-76 (1998).
370.	25.	Tavagnacco, C., Peressini, S., Costa, G., Borsari, M., Battistuzzi, R. Electrochemistry of 2-thio- and 2-oxo-pyrimidines in dimethyl formamide in the presence of dioxygen Inorganica Chimica Acta, 270 (1-2), 145-150 (1998).
371.	26.	Amado, S., Dicks, A.P., Williams, D.L.H. Kinetics and mechanism of the nitrosation of 2-mercaptopyridine [pyridine-2(1H)-thione] Journal of the Chemical Society. Perkin Transactions 2, (9), 1869-1875 (1998).
372.	27.	Herczynska, L., Lestel, L., Boileau, S., Chojnowski, J., Polowinski, S. Modification of polysiloxanes by free-radical addition of pyridylthiols to the vinyl groups of the polymer

		European Polymer Journal, 35 (6), 1115-1122 (1999).
373.	28.	Demir, A.S., Igdir, A.C., Mahasneh, A.S. Novel conversion of thiols into disulfides, via S-nitrosothiol intermediates using trichloronitromethane Tetrahedron, 55 (42), 12399-12404 (1999).
374.	29.	Pinheiro, L.S., Temperini, M.L.A. Coadsorption of 2-mercaptopyrimidine and 2,2'-bipyridine on Au(111) studied by scanning tunneling microscopy Surface Science, 441 (1), 45-52 (1999).
375.	30.	Pinheiro, L.S., Temperini, M.L.A. Coadsorption of 2-mercaptopyrimidine and 1,10'-phenanthroline on Au(111) as seen by STM Surface Science, 441 (1), 53-64 (1999).
376.	31.	Zhang, H.-L., Chen, M., Li, H.-L. Study on Two-Component Matrix Formed by Coadsorption of Aromatic and Long Chain Mercaptans on Gold Journal of Physical Chemistry B, 104 (1), 28-36 (2000).
377.	32.	El-Kemary, M.A., El-Khouly, M.E., Ito, O. Photophysical characteristics of two 4,6-disubstituted-3-cyanopyridin-2(1H)-thiones in various solvents Journal of Photochemistry and Photobiology A: Chemistry, 137 (2-3), 105-113 (2000).
378.	33.	Holmes, A.J. The Role of L-Ascorbic Acid in 5-Nitrosothiol Decomposition and Aspects of the Nitrosation of Thiones PhD Thesis, Durham University (2000).
379.	34.	Rojas, S., García Fierro, J.L., Fandos, R., Rodríguez, A., Terreros, P. Synthesis, structure and hydroformylation activity of monomer rhodium and iridium pyrimidine thiolate complexes Journal of the Chemical Society, Dalton Transactions, (15), 2316-2324 (2001).
380.	35.	Fernandes, R.M., Lang, E.S., López, E.M.V., De Sousa, G.F. Organotin(IV) complexes of 4,6-dimethylpyrimidine-2-thione, Me ₂ PymtH. Preparation, characterization and crystal structure determination of cis-[Ph ₂ Sn(Me ₂ Pymt) ₂] and [Ph ₃ Sn(Me ₂ Pymt)] Polyhedron, 21 (12-13), 1149-1153 (2002).
381.	36.	Spychała, J. Correlation between the reactivity and spectroscopic properties of N-substituted secondary thioamides. New intramolecular N...H +...N binding approach and proton complexes based on thioamide ligation Magnetic Resonance in Chemistry, 41 (3), 169-176 (2003).
382.	37.	Zhang, H.-L., Evans, S.D., Henderson, J.R., Miles, R.E., Shen, T. Spectroscopic characterization of gold nanoparticles passivated by mercaptopyridine and mercaptopyrimidine derivatives Journal of Physical Chemistry B, 107 (25), 6087-6095 (2003).
383.	38.	Martos-Calvente, R., De la Peña O'Shea, V.A., Campos-Martin, J.M., Fierro, J.L.G. The Usefulness of Density Functional Theory to Describe the Tautomeric Equilibrium of 4,6-Dimethyl-2-mercaptopyrimidine in Solution Journal of Physical Chemistry A, 107 (38), 7490-7495 (2003).
384.	39.	Tripathi, G.N.R., Clements, M. Adsorption of 2-mercaptopyrimidine on silver nanoparticles in water Journal of Physical Chemistry B, 107 (40), 11125-11132 (2003).
385.	40.	Chung, J.Y.L., Cvetovich, R.J., Tsay, F.-R., Dormer, P.G., DiMichele, L., Mathre, D.J., Chilenski, J.R., Mao, B., Wenslow, R. Synthesis of 3-Aminopyrazinone Mediated by 2-Pyridylthioimidate-ZnCl ₂ Complexes. Development of an Efficient Route to a Thrombin Inhibitor Journal of Organic Chemistry, 68 (23), 8838-8846 (2003).
386.	41.	Reichardt C.

		Solvents and Solvent Effects in Organic Chemistry, 3 rd edition, VCH, p. 112 (2003).
387.	42.	Hanika-Heidl, H., Fischer, R.D. Versatile reaction of the potential host system [(Me ₃ Sn IV) 4RuII(CN) ₆] [∞] with 4-thiopyridone/4-mercaptopyridine in water Inorganica Chimica Acta, 357 (6), 1748-1760 (2004).
388.	43.	Muthu, S., Vittal, J.J. A new polymorph of 4-pyridinethione containing a helical assembly based on N-H...S hydrogen bonds Crystal Growth and Design, 4 (6), 1181-1184 (2004).
389.	44.	Hoogerheide, J.G., Scott, R.A. Use of 2-mercaptopyridine for the determination of alkylating agents in complex matrices: Application to dimethyl sulfate Talanta, 65 (2 SPEC. ISS.), 453-460 (2005).
390.	45.	Sondhi, S.M., Goyal, R.N., Lahoti, A.M., Singh, N., Shukla, R., Raghubir, R. Synthesis and biological evaluation of 2-thiopyrimidine derivatives Bioorganic and Medicinal Chemistry, 13 (9), 3185-3195 (2005).
391.	46.	García Calzón, J.A., Muñiz Álvarez, J.L., López Fonseca, J.M. Oxidation process induced by 2-mercaptopyrimidine at a mercury electrode Journal of Colloid and Interface Science, 290 (2), 498-504 (2005).
392.	47.	Eichhöfer, A., Buth, G. Synthesis and structure of the group 12 pyrimidinethiolate complexes $\infty 3[\text{Zn}(\text{S}-2\text{-N}2\text{C}4\text{H}3)_2]$, $\infty 2[\text{Cd}(\text{S}-2\text{-N}2\text{C}4\text{H}3)_2]$, $[\text{Hg}(\text{S}-2\text{-N}2\text{C}4\text{H}3)_2]$ and $[\text{Cd}(\text{S}-2\text{-N}2\text{C}4\text{H}3)_2(\text{tmeda})]$ European Journal of Inorganic Chemistry, (20), 4160-4167 (2005).
393.	48.	Constable, E.C., Hermann, B.A., Housecroft, C.E., Neuburger, M., Schaffner, S., Scherer, L.J. 2,2' :6,2'' -Terpyridine-4' (1' H)-thione: A missing link in metallosupramolecular chemistry New Journal of Chemistry, 29 (11), 1475-1481 (2005).
394.	49.	Azzouzi, F., Lyazidi, S.A., Haddad, M., El Messaoudi, M., Hasnaoui, A., Ben Larbi, N. Ultraviolet-visible spectroscopic study of 3,5-dithio-2,7-dimethyl-[1,2,4]- triazepine: Qualitative analysis of tautomeric behaviour Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 62 (4-5), 875-879 (2005).
395.	50.	Ghassemzadeh, M., Adhami, F. Taeb, A., Heravi, M.M., Neumüller, B. A Coordination Polymer from HAMTTO with Silver(I) (HAMTTO = 4 - Amino - 6 - methyl - 1,2,4 - triazine - 3 - thione - 5 - one) Zeitschrift für Anorganische und Allgemeine Chemie, 631, 1568-1570 (2005).
396.	51.	Morin, J. Synthesis and Evaluation of Photoactive Pyridine Complexes for Electron Transfer Studies and Photoelectrochemical Applications Dissertation, Uppsala University (2005).
397.	52.	Cheng, J., Xu, W., Zhao, B., Zhang, G., Gong, B. Study on vibrational spectra and structure of 4-mercaptopyridine monomer and dimer using DFT Spectroscopy and Spectral Analysis, 26 (5), 854-857 (2006).
398.	53.	Cheng, J., Xu, W., Zhao, B., Zhang, G., Gong, B. Investigation on Vibrational Spectra and Structures of 4-Mercaptopyridine Monomer and Its Dihydrate Chemical Research in Chinese Universities, 22 (1), 90-93 (2006)
399.	54.	Lima, M.C.P., Coutinho, K., Canuto, S., Rocha, W.R. Reaction mechanism and tautomeric equilibrium of 2-mercaptopyrimidine in the gas phase and in aqueous solution: A combined monte carlo and quantum mechanics study Journal of Physical Chemistry A, 110 (22), 7253-7261 (2006).
400.	55.	Freeman, F., Po, H.N. Dimers of and tautomerism between 2-pyrimidinethiol and 2(1H)-pyrimidinethione: A Density Functional Theory (DFT) study Journal of Physical Chemistry A, 110 (25), 7904-7912 (2006).

401.	56.	Stanovnik, B., Tišler, M., Katritzky, A.R., Denisko, O.V. The Tautomerism of Heterocycles: Substituent Tautomerism of Six-Membered Ring Heterocycles Advances in Heterocyclic Chemistry, 91, 1-134 (2006).
402.	57.	Goyal, R.N., Sondhi, S.M., Lahoti, A.M. Electrochemical investigations of biologically active 1-(3-Hydroxy-2-pyridyl)-4,4,6-trimethyl-3,4-dihydropyrimidine-2[1H]-thione at pyrolytic graphite electrode Bulletin of the Chemical Society of Japan, 79 (4), 569-576 (2006).
403.	58.	Yee, N.S. Synthetic, structural and reactivity studies of indenyl ruthenium complexes PhD Thesis, National University of Singapore, Singapore (2006).
404.	59.	Spillane, W.J. Reactions of Acids and their Derivatives Organic Reaction Mechanisms - 1990, 19-83 (2007).
405.	60.	Méndez, E., Cerdá, M.F., Gancheff, J.S., Torres, J., Kremer, C., Castiglioni, J., Kieninger, M., Ventura, O.N. Tautomeric forms of 2-thiobarbituric acid as studied in the solid, in polar solutions, and on gold nanoparticles Journal of Physical Chemistry C, 111 (8), 3369-3383 (2007).
406.	61.	Pinheiro, L.S., Temperini, M.L.A. Pyridine and pyridine carboxylic acids as guests in a bidimensional hydrogen bond structure analyzed by scanning tunneling microscopy Surface Science, 601 (8), 1836-1843 (2007).
407.	62.	Räisänen, M.T., Kemell, M., Leskelä, M., Repo, T. Oxidation of elemental gold in alcohol solutions Inorganic Chemistry, 46 (8), 3251-3256 (2007).
408.	63.	Delgado, S., Molina-Ontoria, A., Medina, M.E., Pastor, C.J., Jiménez-Aparicio, R., Priego, J.L. Structural diversity of copper complexes with angular and linear dipyridyl ligands Polyhedron, 26 (12), 2817-2828 (2007).
409.	64.	Silveira, C.C., Mendes, S.R. Catalytic oxidation of thiols to disulfides using iodine and CeCl ₃ ·7H ₂ O in graphite Tetrahedron Letters, 48 (42), 7469-7471 (2007).
410.	65.	Räisänen, M.T., Runeberg, N., Klinga, M., Nieger, M., Bolte, M., Pyykkö, P., Leskelä, M., Repo, T. Coordination of pyridinethiols in gold(I) complexes Inorganic Chemistry, 46 (23), 9954-9960 (2007).
411.	66.	Chao, Y., Zhou, Q., Li, Y., Yan, Y., Wu, Y., Zheng, J. Potential dependent surface-enhanced raman scattering of 4-mercaptopyridine on electrochemically roughened silver electrodes Journal of Physical Chemistry C, 111 (45), 16990-16995 (2007).
412.	67.	Kalinowski, D.S., Sharpe, P.C., Bernhardt, P.V., Richardson, D.R. Design, synthesis, and characterization of new iron chelators with anti-proliferative activity: Structure-activity relationships of novel thiohydrazone analogues Journal of Medicinal Chemistry, 50 (24), 6212-6225 (2007).
413.	68.	Hassan, N. Spectroelectrochemistry of self-assembled monolayers of 2- and 4-mercaptopyridines Dissertation, Technische Universität Chemnitz, Deutschland (2007).
414.	69.	Sin, Y.N., Weng, K.L., Lai, Y.G., Webster, R.D. Synthesis, X-ray crystal structures and electrochemistry of (indenyl)-ruthenium complexes containing dppf and heterocyclic thiolato/thione ligands European Journal of Inorganic Chemistry, (1), 144-151 (2008).
415.	70.	Freeman, F., Po, H.N., Ho, T.S., Wang, X. Electrochemical oxidation of 2-pyrimidinethiols and theoretical study of their dimers, disulfides, sulfenyl radicals, and tautomers Journal of Physical Chemistry A, 112 (7), 1643-1655 (2008).
416.	71.	Timm, R.A., Bonacin, J.A., Formiga, A.L.B., Toma, H.E.

		A theoretical study of the tautomerism and vibrational spectra of 4,5-diamine-2,6-dimercaptopyrimidine Journal of the Brazilian Chemical Society, 19 (2), 287-292 (2008).
417.	72.	Zhang, Y.A., Monga, V., Orvig, C., Wang, Y.A. Theoretical studies of the tautomers of pyridinethiones Journal of Physical Chemistry A, 112 (14), 3231-3238 (2008).
418.	73.	Radwan, M.A.A., Abbas, E.M.H. Synthesis of some pyridine, thiopyrimidine, and isoxazoline derivatives based on the pyrrole moiety Monatshefte fur Chemie, 140 (2), 229-233 (2009).
419.	74.	Upadhye, K., PrakashaReddy, J., Pedireddi, V.R. C-H...N hydrogen bonds mediated solid state structures of 2,2'-bis(4-pyridylsulfanylmethyl)-1,1'-biphenyl and 9-(4-pyridylsulfanyl)phenanthrene Journal of Molecular Structure, 937 (1-3), 81-84 (2009).
420.	75.	M. T. Molina, M.T., Yáñez, M., Mó, O., Notario, R., Abboud, J.-L.M. The thiocarbonyl group PATAI's Chemistry of Functional Groups, Wiley, 1-142 (2009).
421.	76.	Mohamed, M.S., Kamel, R., Fatahala, S.S. Synthesis and biological evaluation of some thio containing pyrrolo [2,3-d] Pyrimidine derivatives for their anti-inflammator European Journal of Medicinal Chemistry, 45 (7), 2994-3004 (2010).
422.	77.	Schepp, N.P., Green, C.J.M., Cozens, F.L. Non-resonant two-photon photochemistry of a Barton ester, N-phenylacetyloxy-2-pyridinethione Photochemical and Photobiological Sciences, 9 (1), 110-113 (2010).
423.	78.	Constable, E.C., Housecroft, C.E., Neuburger, M., Price, J.R., Zampese, J.A. Tuning coordination environments through ligand redox chemistry: The thiol-disulfide reaction Australian Journal of Chemistry, 63 (9), 1334-1341 (2010).
424.	79.	Reichardt, C., Welton, T. Solvents and Solvent Effects in Organic Chemistry: Fourth Edition Solvents and Solvent Effects in Organic Chemistry: Fourth Edition, 692 p. (2010)
425.	80.	Bergman, J., Pettersson, B., Hasimbegovic, V., Svensson, P.H. Thionations using a P4S10-pyridine complex in solvents such as acetonitrile and dimethyl sulfone Journal of Organic Chemistry, 76 (6), 1546-1553 (2011).
426.	81.	Du, R., Liu, C., Zhao, Y., Pei, K.-M., Wang, H.-G., Zheng, X., Li, M., Xue, J.-D., Phillips, D.L. Resonance raman spectroscopic and theoretical investigation of the excited state proton transfer reaction dynamics of 2-thiopyridone Journal of Physical Chemistry B, 115 (25), 8266-8277 (2011).
427.	82.	Maddila, S., Jonnalagadda, S.B. Synthesis and biological activity of ethyl 2-(substituted benzylthio)-4-(3-(ethoxycarbonyl)biphenyl-4-yl)-6-methyl-1,4-dihydropyrimidine-5-carboxylate derivatives Archiv der Pharmazie, 345 (2), 163-168 (2012).
428.	83.	Kotaiah, Y., Hari Krishna, N., Naga Raju, K., Rao, C.V., Jonnalagadda, S.B., Maddila, S. Synthesis and biological evaluation of novel isopropyl 2-thiazolopyrimidine-6-carboxylate derivatives Journal of the Korean Chemical Society, 56 (1), 68-73 (2012).
429.	84.	Hassan, N., Holze, R. Surface enhanced Raman spectroscopy of self-assembled monolayers of 2-mercaptopyridine on a gold electrode Russian Journal of Electrochemistry, 48 (4), 401-411 (2012).
430.	85.	Ramírez, E.A., Cortés, E., Rubert, A.A., Carro, P., Benítez, G., Vela, M.E., Salvarezza, R.C. Complex surface chemistry of 4-mercaptopyridine self-assembled monolayers on Au(111) Langmuir, 28 (17), 6839-6847 (2012).
431.	86.	Guo, X.-N., Du, R., Zhao, Y.-Y., Pei, K.-M., Wang, H.-G., Zheng, X.-M.

		Dynamic structures of 2-thiopyrimidone and 2-thiopyridone in B-band absorptions Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 28 (7), 1570-1578 (2012).
432.	87.	Lavanya, P., Maddila, S., Jonnalagadda, S.B., Rao, C.V. Synthesis and biological evaluation of novel thio-1,4-dihydropyrimidine-5- carboxylate derivatives Asian Journal of Chemistry, 25 (1), 385-389 (2013).
433.	88.	Calloni, A., Brambilla, A., Berti, G., Bussetti, G., Canesi, E.V., Binda, M., Petrozza, A., Finazzi, M., Ciccacci, F., Duò, L. X-ray photoemission spectroscopy investigation of the interaction between 4-mercaptopyridine and the anatase TiO ₂ surface Langmuir, 29 (26), 8302-8310 (2013).
434.	89.	Gerlach, D.L., Coucouvanis, D., Kampf, J., Lehnert, N. Isolation and characterization of single and sulfide-bridged double [4Fe-4S] cubane clusters with 4-pyridinethiolato ligands European Journal of Inorganic Chemistry, (30), 5253-5264 (2013).
435.	90.	İnkaya, E., Dinçer, M., Şahan, E., Yıldırım, I. Synthesis, spectroscopic and structural characterization of 5-benzoyl-4-phenyl-2-methylthio-1H-pyrimidine with theoretical calculations using density functional theory Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 114, 92-100 (2013).
436.	91.	Cortés, C. Construcción y propiedades de sistemas moleculares ensamblados sobre superficies lisas, nanoestructuradas y nanopartículas Tesis de doctorado, Universidad Nacional de la Plata, Argentina (2013).
437.	92.	Hilmy, K.M.H., Soliman, D.H., Shahin, E.B.A., El-Deeb, H.S., El-Kousy, S.M. Design, synthesis and evaluation of novel diaryl pyrrolopyrimidine and pyrrolothiazine derivatives as inhibitors of tumor necrosis factor stimulated gene-14 (TSG-14) production European Journal of Medicinal Chemistry, 78, 419-424 (2014).
438.	93.	Huang, W.-L., Hung, G.-J., Lo, Y.-H. Unprecedented formation of ruthenium 2-mercaptobenzothiazole complex Journal of Organometallic Chemistry, 767, 120-124 (2014).
439.	94.	De La Pinta, N., Caballero, A.B., Madariaga, G., Ezpeleta, J.M., Rodriguez-Dieguez, A., Salas, J.M., Cortés, R. DPDS-DPS in situ transformation at room temperature via a 1,2-nucleophilic addition mechanism CrystEngComm, 16 (36), 8322-8326 (2014).
440.	95.	Головнев, Н., Молокеев, М. 2-тиобарбитуровая кислота и ее комплексы с металлами: синтез, структура и свойства СФУ, 236 (2014).
441.	96.	Aseman, M.D., Nabavizadeh, S.M., Shahsavari, H.R., Rashidi, M. C-H reductive elimination during the reaction of cycloplatinated(ii) complexes with pyridine-2-thione: Kinetic follow up RSC Advances, 5 (29), 22692-22702 (2015).
442.	97.	Rajaguru, K., Mariappan, A., Manjusri, R., Muthusubramanian, S., Bhuvanesh, N. An efficient desulfitative C-C cross coupling of fused thiazolidine-2-thione with boronic acids and boronic acid pinacol esters: Formation of fused thiazoles RSC Advances, 5 (105), 86832-86839 (2015).
443.	98.	Tuci, G., Luconi, L., Rossin, A., Baldini, F., Cicchi, S., Tombelli, S., Trono, C., Giannetti, A., Manet, I., Fedeli, S., Brandi, A., Giambastiani, G. A hetero-bifunctional spacer for the smart engineering of carbon-based nanostructures ChemPlusChem, 80 (4), 704-714 (2015).
444.	99.	Golovnev, N.N., Molokeev, M.S., Vereshchagin, S.N., Atuchin, V.V. Synthesis and thermal transformation of a neodymium(III) complex [Nd(HTBA) ₂ (C ₂ H ₃ O ₂)(H ₂ O) ₂]-2H ₂ O to non-centrosymmetric oxosulfate Nd ₂ O ₂ SO ₄ Journal of Coordination Chemistry, 68 (11), 1865-1877 (2015).

445.	100.	Bron, M., Holze, R. Structural studies of self-assembled monolayers of 4-mercaptopyridine on gold electrodes with surface-enhanced Raman spectroscopy Journal of Solid State Electrochemistry, 19 (9), 2673-2682 (2015).
446.	101.	Prnova, M.S., Ballekova, J., Majekova, M., Stefek, M. Antioxidant action of 3-mercapto-5h-1,2,4-triazino[5,6-b]indole-5-acetic acid, an efficient aldose reductase inhibitor, in a 1,1'-diphenyl-2-picrylhydrazyl assay and in the cellular system of isolated erythrocytes exposed to tert-butyl hydroperoxide Redox Report, 20 (6), 282-288 (2015).
447.	102.	Rodríguez, A., García-Vázquez, J.A. The use of sacrificial anodes for the electrochemical synthesis of metallic complexes Coordination Chemistry Reviews, 303, 42-85 (2015).
448.	103.	Pettersson, B., Hasimbegovic, V., Svensson, P.H., Bergman, J. Thionation process and a thionating agent US Patent 9221855B2 (2015).
449.	104.	Pettersson, B., Hasimbegovic, V., Svensson, P.H., Bergman, J. Thionating agent US Patent 9115158B2 (2015).
450.	105.	Navarro, R., Perrino, M.P., García, C., Elvira, C., Gallardo, A., Reinecke, H. Opening new gates for the modification of PVC or other PVC derivatives: Synthetic strategies for the covalent binding of molecules to PVC Polymers, 8 (4), art. 152, (2016).
451.	106.	Fuoco, T., Finne-Wistrand, A., Pappalardo, D. A Route to Aliphatic Poly(ester)s with Thiol Pendant Groups: From Monomer Design to Editable Porous Scaffolds Biomacromolecules, 17 (4), 1383-1394 (2016).
452.	107.	Nkungli, N.K., Ghogomu, J.N. Concomitant Effects of Transition Metal Chelation and Solvent Polarity on the First Molecular Hyperpolarizability of 4-Methoxyacetophenone Thiosemicarbazone: A DFT Study Journal of Theoretical Chemistry, article ID 7909576 (2016).
453.	108.	Ghogomu, J.N., Nkungli, N.K. A DFT Study of Some Structural and Spectral Properties of 4-Methoxyacetophenone Thiosemicarbazone and Its Complexes with Some Transition Metal Chlorides: Potent Antimicrobial Agents Advances in Chemistry, article ID 9683630 (2016).
454.	109.	Phelps, J.P. Engineering and Virology of the Cowpea Mosaic Virus and Flock House Virus, Positive Sense Icosahedral RNA Viruses PhD Thesis, University of California, San Diego (2017)
455.	110.	Lal, K., Paliwal, L.J., Bagade, M.B. Synthesis, Molecular Docking and Pharmacological Study of Some New Thiopyrimidine Derivatives Materials Today: Proceedings, 5 (7), 15354-15360 (2018).
456.	111.	Bucher, G., Lal, M., Rana, A., Schmitt, M. Fragmentation of a dioxolanyl radical via nonstatistical reaction dynamics: Characterization of the vinyloxy radical by ns time-resolved laser flash photolysis Physical Chemistry Chemical Physics, 20 (30), 19819-19828 (2018).
457.	112.	Tuci, G., Mosconi, D., Rossin, A., Luconi, L., Agnoli, S., Righetto, M., Pham-Huu, C., Ba, H., Cicchi, S., Granozzi, G., Giambastiani, G. Surface Engineering of Chemically Exfoliated MoS ₂ in a "click": How to Generate Versatile Multifunctional Transition Metal Dichalcogenides-Based Platforms Chemistry of Materials, 30 (22), 8257-8269 (2018).
458.	113.	Clark, M.L., Ge, A., Videla, P.E., Rudshiteyn, B., Miller, C.J., Song, J., Batista, V.S., Lian, T., Kubiak, C.P. CO Reduction Catalysts on Gold Electrode Surfaces Influenced by Large

		Electric Fields Journal of the American Chemical Society, 140 (50), 17643-17655 (2018).
459.	114.	Schuh, E. Darstellung von N-heterocyclischen Carben-Gold-Komplexen mit anionischen Schwefel-, Kohlenstoff- und Stickstoffliganden: Strukturen, biologische Studien und Reaktivität Dissertation zur Erlangung des akademischen Grades Doktor der Naturwissenschaften, Bergischen Universität Wuppertal (2018).
460.	115.	Al Yahyaie, B. Design and synthesis of triazole-based inhibitors of the DNA repair enzyme alkyladenine glycosylase (AAG) Doctoral thesis, University of Surrey (2018).
461.	116.	Furutani, M., Nakayama, K., Okuma, K., Arimitsu, K. Photoadhesive of acrylates containing cross-links of dipyrindyl disulfide Journal of Photopolymer Science and Technology, 32 (4), 619-622 (2019).
462.	117.	Jeong, H., Kang, Y., Kim, J., Kim, B.-K., Hong, S. Factors that determine thione(thiol)-disulfide interconversion in a bis(thiosemicarbazone) copper(II) complex RSC Advances, 9 (16), 9049-9052 (2019).
463.	118.	Yassin, M.A., Fuoco, T., Mohamed-Ahmed, S., Mustafa, K., Finne-Wistrand, A. 3D and Porous RGDC-Functionalized Polyester-Based Scaffolds as a Niche to Induce Osteogenic Differentiation of Human Bone Marrow Stem Cells Macromolecular Bioscience, 19 (6), art. 1900049 (2019).
464.	119.	Norell, J., Ljungdahl, A., Odelius, M. Interdependent Electronic Structure, Protonation, and Solvatization of Aqueous 2-Thiopyridone Journal of Physical Chemistry B, 123 (26), 5555-5567 (2019).
465.	120.	Lopez Quezada, L., Li, K., McDonald, S.L., Nguyen, Q., Perkowski, A.J., Pharr, C.W., Gold, B., Roberts, J., McAulay, K., Saito, K., Somersan Karakaya, S., Javidnia, P.E., Porras De Francisco, E., Amieva, M.M., Díaz, S.P., Mendoza Losana, A., Zimmerman, M., Liang, H.-P.H., Zhang, J., Dartois, V., Sans, S., Lagrange, S., Goullieux, L., Roubert, C., Nathan, C., Aubé, J. Dual-Pharmacophore Pyrithione-Containing Cephalosporins Kill Both Replicating and Nonreplicating Mycobacterium tuberculosis ACS Infectious Diseases, 5 (8), 1433-1445 (2019).
466.	121.	Norell, J., Eckert, S., Van Kuiken, B.E., Föhlisch, A., Odelius, M. Ab initio simulations of complementary K-edges and solvatization effects for detection of proton transfer in aqueous 2-thiopyridone Journal of Chemical Physics, 151 (11), art. 114117 (2019).
467.	122.	Yassin, M.A., Fuoco, T., Mohamed-Ahmed, S., Mustafa, K., Finne-Wistrand, A. 3D and Porous RGDC-Functionalized Polyester-Based Scaffolds as a Niche to Induce Osteogenic Differentiation of Human Bone Marrow Stem Cells Macromolecular Bioscience, 19 (6), art. 1900049 (2019).
468.	123.	Bomzon, B., Khunger, Y., Subramanian, R. A dielectric and spectrophotometric study of the tautomerization of 2-hydroxypyridine and 2-mercaptopyridine in water RSC Advances, 10 (4), 2389-2395 (2020).
469.	124.	Dumont, E., De Bleye, C., Haouchine, M., Coïc, L., Sacré, P.-Y., Hubert, P., Ziemons, E. Effect of the functionalisation agent on the surface-enhanced Raman scattering (SERS) spectrum: Case study of pyridine derivatives, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 233, art. no. 118180 (2020).
470.	125.	Vernack, E., Costa, D., Tingaut, P., Marcus, P. DFT studies of 2-mercaptobenzothiazole and 2-mercaptobenzimidazole as corrosion inhibitors for copper Corrosion Science, 174, art. no. 108840 (2020).
471.	126.	Sukmanee, T., Wongravee, K., Kitahama, Y., Ekgasit, S., Itoh, T., Pienpinijtham, P., Ozaki, Y.

		Distinguishing Enantiomers by Tip-Enhanced Raman Scattering: Chemically Modified Silver Tip with an Asymmetric Atomic Arrangement Angewandte Chemie - International Edition, 59 (34), 14564-14569 (2020).
472.	127.	Plaza-Lozano, D., Morales-Martínez, D., González, F.J., Olguín, J. Homoleptic Mononuclear Tris-Chelate Complexes of FeII, CoII, NiII, and ZnII Based on a Redox-Active Imidazolyl-2-thione Ligand: Structural and Electrochemical Correlation European Journal of Inorganic Chemistry, 2020 (17), 1562-1573 (2020).
473.	128.	Norell, J., Odelius, M., Vacher, M. Ultrafast dynamics of photo-excited 2-thiopyridone: Theoretical insights into triplet state population and proton transfer pathways Structural Dynamics, 7 (2), art. no. 024101 (2020).
474.	129.	Norell, J. Fingerprints of light-induced molecular transients: from quantum chemical models of ultrafast x-ray spectroscopy Dissertation, Stockholm University, Sweden (2020).
475.	130.	Furutani, M., Fujihira, D., Arimitsu, K. Photoadhesive materials containing 2-mercaptopyridyl moieties Journal of Photopolymer Science and Technology, 33 (3), 261-267 (2020).
476.	131.	Cordero-Rivera, R.E., Rendón-Nava, D., Ángel-Jijón, C., Suárez-Castillo, O.R., Mendoza-Espinosa, D. Synthesis and Reactivity of (NHC)AuI-Mercaptopyridine Complexes Organometallics, 39 (10), 1887-1895 (2020).
477.	132.	El-serwy, W.S., Mohamed, El-serwy, W.S., Mohamed, triageH.S., Kassem, E.M.M., Mahmoud, K., Nossier, E.S. Thiopyrimidine - 5 - carbonitrile Derivatives as VEGFR - 2 Inhibitors: Synthesis, Anticancer Evaluation, Molecular Docking, ADME Predictions and QSAR Studies ChemistrySelect, 5, art. no. 15243 (2020).
478.	133.	Gomez-Bonilla, M.A., Salazar-Pereda, V., Mendoza-Espinosa, D., Gonzalez-Montiel, S., Castañeda-Ovando, A., Rojas-Lima, S., Sandoval-Chavez, C.I., Lopez-Jimenez, J.A. Reactivity of 2-mercaptopyridines with Iridium(III)-Tris(pyrazolyl) borate complexes European Journal of Inorganic Chemistry, (13), 1244-1250 (2021).
479.	134.	Moulay, S. S-methylation of organosulfur substrates: A comprehensive overview Phosphorus, Sulfur and Silicon and the Related Elements, doi: 10.1080/10426507.2021.1925672 (2021).
480.	135.	Browne, K. A., Chau, A., Cline, J., Savage, M. Impact of an Unusual Disulfide Transformation on Detection of Isothermal Amplification Products Canadian Journal of Chemistry, doi: 10.1139/cjc-2020-0302 (2021).
C.3. Analysis of the overlapping bands in UV-Vis absorption spectroscopy. L.Antonov & S.Stoyanov; <i>Applied Spectroscopy</i> , 47 , 1030-1035 (1993)		
481.	1.	Ajito, K., Sukamto, J.P.H., Nagahara, L.A., Hashimoto, K., Fujishima, A. Strain imaging analysis of Si using Raman microscopy Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 13 (3), 1234-1238 (1995).
482.	2.	Bontchev, P.R., Gencheva, G., Gochev, G., Simova, S., Dimova, V. Copper(II) complexes of a new cynamyl derivative of the antibiotic rifampicin Journal of Inorganic Biochemistry, 65 (3), 175-182 (1997).
483.	3.	Benjathapanun, N., Boyle, W.J.O., Grattan, K.T.V. Binary encoded 2nd-differential spectrometry using UV-Vis spectral data and neural networks in the estimation of species type and concentration IEE Proceedings: Science, Measurement and Technology, 144 (2), 73-80 (1997).
484.	4.	Benjathapanun, N., Boyle, W.J.O., Grattan, K.T.V. The Application of Binary Encoded 2nd Differential Spectrometry in Preprocessing of UV-Vis Absorption Spectral Data Operations Research/Computer Science Interfaces Series, 8, 95-100 (1997).

485.	5.	Benjathapanun, N., Boyle, W.J.O., Grattan, K.T.V. Classification of UV-Vis spectroscopic data using principal component analysis and neural network techniques Measurement: Journal of the International Measurement Confederation, 24 (1), 1-7 (1998).
486.	6.	Bohren, A., Sigrist, M.W. SILC - An algorithm for calibration and analysis of multi-component absorption spectra with considerable abscissa errors Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 54 (8), 1049-1058 (1998).
487.	7.	Bakola-Christianopoulou, M.N., Apazidou, K.K., Stoyanov, S., Akrivos, P.D. Application of spectroscopic and computational methods in the study of the electronic excitations of partially silylated hydroxyquinones Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 59 (5), 1017-1024 (2003).
488.	8.	Parmar, C.K., Rumbles, G., Winscom, C.J. Light stability of pyrazolotriazole azamethine dyes at oil/aqueous interfaces Physical Chemistry Chemical Physics, 7 (8), 1815-1823 (2005).
489.	9.	Matthews, C., Clark, R., Callinan, L. Spectral discrimination of Southern Victorian salt tolerant vegetation Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 4065 LNAI, 389-403 (2006).
490.	10.	Habibi, M.H., Hassanzadeh, A., Zeini-Isfahani, A. Spectroscopic studies of Solophenyl red 3BL polyazo dye tautomerism in different solvents using UV-visible, ¹ H NMR and steady-state fluorescence techniques Dyes and Pigments, 69 (1-2), 93-101 (2006).
491.	11.	Hassanzadeh, A., Zeini-Isfahani, A., Habibi, M.H. Molecular exciton theory calculations based on experimental results for Solophenyl red 3BL azo dye-surfactants interactions Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 64 (2), 464-476 (2006).
492.	12.	Raschellà, R. Photoinduced effects for holographic applications in hybrid sol-gel thin films PhDthesis, University of Parma (2006).
493.	13.	Katritzky, A.R., Slavov, S.H., Dobchev, D.A., Karelson, M. QSPR modeling of UV absorption intensities Journal of Computer-Aided Molecular Design, 21 (7), 371-377 (2007).
494.	14.	Vo, E., Murray, D.K., Scott, T.L., Attar, A.J. Development of a novel colorimetric indicator pad for detecting aldehydes Talanta, 73 (1), 87-94 (2007).
495.	15.	Belay, A. Measurement of integrated absorption cross-section, oscillator strength and number density of caffeine in coffee beans by integrated absorption coefficient technique Food Chemistry, 121 (2), 585-590 (2010).
496.	16.	Markarian, S.A., Sargsyan, H.R. Electronic absorption spectra of ascorbic acid in water and water-dialkylsulfoxide mixtures Journal of Applied Spectroscopy, 78 (1), 6-10 (2011) .
497.	17.	Suppakul, P. Intelligent Packing Handbook of Frozen Food Processing and Packaging (D.-W.Sun, editor), 2 nd edition, CRC press (2011).
498.	18.	Ehwie, T.O. Analysis of drug polymorphism by diffuse reflectance visible spectroscopy-a novel approach PhD Thesis, University of Greenwich (2011).
499.	19.	De Wael, K., Lepot, L., Lunstroot, K.

		The use of linear dichroism in forensic fibre examinations - Part 6. Validation and practical aspects of MSP-PPL Science and Justice, 52 (4), 249-258 (2012).
500.	20.	Brémond, E. Simulation ab initio de spectres UV-visibles These, Université Pierre et Marie Curie - Paris VI (2012).
501.	21.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study Structural Chemistry, 25 (4), 1257-1270 (2014).
502.	22.	Ajaj, I., Markovski, J., Rančić, M., Mijin, D., Milčić, M., Jovanović, M., Marinković, A. Solvent and structural effects in tautomeric 2(6)-hydroxy-4-methyl-6(2)-oxo-1-(substituted phenyl)-1,2(1,6)-dihydropyridine-3-carbonitriles: UV, NMR and quantum chemical study Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 150, art. 13723, 575-585 (2015).
503.	23.	Бркић, Д.Р. Синтеза, структура и својства деривата исатина Докторске дисертације, Универзитет у Београду (2015).
504.	24.	Fu, Y., Fan, C., Liu, G., Pu, S. A colorimetric and fluorescent sensor for Cu ²⁺ and F ⁻ based on a diarylethene with a 1,8-naphthalimide Schiff base unit Sensors and Actuators, B: Chemical, 239, 295-303 (2017).
505.	25.	Brkić, D.R., Božić, A.R., Marinković, A.D., Milčić, M.K., Prlainović, N.Ž., Assaleh, F.H., Cvijetić, I.N., Nikolić, J.B., Drmanić, S.Ž. Detailed solvent, structural, quantum chemical study and antimicrobial activity of isatin Schiff base Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 196, 16-30 (2018).
506.	26.	Gao, W., Li, H., Pu, S. A highly selective fluorescent probe for Cu ²⁺ based on a diarylethene with a benzo[1,2,5]oxadiazol-4-ylamine Schiff base unit Journal of Photochemistry and Photobiology A: Chemistry, 364, 208-218 (2018).
507.	27.	Sarap, C.S., Partovi-Azar, P., Fyta, M. Optoelectronic properties of diamondoid-DNA complexes ACS Applied Bio Materials, 1 (1), 59-69 (2018).
508.	28.	Matijević, B.M., Vaštag, Đ.Đ., Apostolov, S.L., Milčić, M.K., Marinković, A.D., Petrović, S.D. N-(substituted phenyl)-2-chloroacetamides: LSER and LFER study, Arabian Journal of Chemistry, 12 (8), 3367-3379 (2019).
509.	29.	Ajaj, I., Assaleh, F.H., Markovski, J., Rančić, M., Brković, D., Milčić, M., Marinković, A.D. Solvatochromism and azo-hydrazo tautomerism of novel arylazo pyridone dyes: Experimental and quantum chemical study, Arabian Journal of Chemistry, 12 (8), 3463-3478 (2019).
510.	30.	La Cruz, T.E., Carvalho, T.C., Ramírez, A., Tábara, J.E. Implementation of a mathematical model for the photochemical kinetics of a solid form active pharmaceutical ingredient International Journal of Pharmaceutics, 566, 500-512 (2019).
511.	31.	Liu, F., Fan, C., Pu, S. A new "turn-on" fluorescent chemosensor for Zn ²⁺ based on a diarylethene derivative and its practical applications Journal of Photochemistry and Photobiology A: Chemistry, 371, 248-254 (2019).
512.	32.	Lavrinenko, I.A., Holyavka, M.G., Chernov, V.E., Artyukhov, V.G. Second derivative analysis of synthesized spectra for resolution and identification of overlapped absorption bands of amino acid residues in proteins: Bromelain and ficin spectra in the 240-320 nm range Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 227, art. 117722 (2020).

513.	33.	Choiri, S., Ainurofiq, A. Spectrophotometric analysis of desloratadine multicomponent crystal formulation: Comparison of conventional methods and chemometric analysis <i>Molekul</i> , 15 (1), 1-8 (2020).
514.	34.	Arroyo, G.V., Madrid, A.T., Gavilanes, A.F., Naranjo, B., Debut, A., Arias, M.T., Angulo, Y. Green synthesis of silver nanoparticles for application in cosmetics <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 55 (11), 1304-1320 (2020).
C.4. Approach for increased information from the second-derivative spectra in UV-Vis absorption spectroscopy. <u>L.Antonov & S.Stoyanov; <i>Applied Spectroscopy</i>, 47, 1712-1715 (1993)</u>		
515.	1.	Hargis, L.G., Howell, J.A., Sutton, R.E. Ultraviolet and light absorption spectrometry <i>Analytical Chemistry</i> , 68 (12), 169R-183R (1996).
516.	2.	Bujdák, J., Iyi, N., Sasai, R. Spectral Properties, Formation of Dye Molecular Aggregates, and Reactions in Rhodamine 6G/Layered Silicate Dispersions <i>Journal of Physical Chemistry B</i> , 108 (14), 4470-4477 (2004).
517.	3.	Bui, T.V., Han, Y., Radu, R.A., Travis, G.H., Mata, N.L. Characterization of native retinal fluorophores involved in biosynthesis of A2E and lipofuscin-associated retinopathies <i>Journal of Biological Chemistry</i> , 281 (26), 18112-18119 (2006).
518.	4.	Sargsian, H.R., Belluyan, M.V., Markarian, S.A. Volumetric study of surfactant–dimethylsulfoxide–water system <i>Proceedings of YSU, Natural Sciences</i> , (1), 51-56 (2007).
519.	5.	Thupakula, U., Khan, A.H., Bal, J.K., Ariga, K., Acharya, S. Size selective excitonic transition energies in strongly confined CdSe quantum dots <i>Journal of Nanoscience and Nanotechnology</i> , 11 (9), 7709-7714 (2011).
520.	6.	Kumar, S. Application of derivative spectroscopy of α,β -unsaturated carbonyl compounds PhD Thesis, University of Delhi (2012).
521.	7.	Czarnecki, M.A. Resolution enhancement in second-derivative spectra <i>Applied Spectroscopy</i> , 69 (1), 67-74 (2015).
522.	8.	Klyuev, V.G., Volykhin, D.V., Ivanova, A.A. Influence of hydrogen peroxide on the stability and optical properties of CdS quantum dots in gelatin <i>Journal of Luminescence</i> , 183, 519-524 (2017).
523.	9.	Langhals, H., Schlücker, T., Ernst, H. Novel Spectrophotometric Protocol for the Long-Term Characterization of the Hue of Artwork <i>Analytical Letters</i> , 50 (14), 2270-2278 (2017).
524.	10.	Klyuev, V.G., Volykhin, D.V., Smirnov, M.S., Dubovitskaya, N.S. Influence of manganese doping on the luminescence characteristics of colloidal $\text{ZnxCd}_{1-x}\text{S}$ quantum dots in gelatin <i>Journal of Luminescence</i> , 192, 893-901 (2017).
C.5. Spectrophotometric investigation of the complex formation between aza-15-crown-5 containing chromoionophores and alkali and alkaline earth metal ions in acetonitrile. <u>L.Antonov & N.Mateeva; <i>Talanta</i>, 41, 1489-1492 (1994)</u>		
525.	1.	Lämsä, M., Kuokkanen, T. Molecular complexes in solution containing benzene - substituted crown ethers and tropylium ions <i>Journal of Physical Organic Chemistry</i> , 9 (1), 21-28 (1996).
526.	2.	Rurack, K., Sczapan, M., Spieles, M., Resch-Genger, U., Rettig, W. Correlations between complex stability and charge distribution in the ground state for CaII and NaI complexes of charge transfer chromo- and fluoroionophores <i>Chemical Physics Letters</i> , 320 (1-2), 87-94 (2000).

527.	3.	Li, L.-D., Wei, Y., Tong, A.-J. Study on cation recognition properties of 4-methene-6,7-dimethoxycoumarin-monoaza-18-crown-6 <i>Analytica Chimica Acta</i> , 427 (1), 29-37 (2001).
528.	4.	Li, L.-D., Wu, Y.-G., Tong, A.-J., Long, W.-Q. Cation Recognition of Luminescent Ionophore-dansyl-monoaza-18-crown-6 Kao Teng Hsueh Hsiao Hua Heush Hsueh Pao/ <i>Chemical Journal of Chinese Universities</i> , 22 (9), 1475-1476 (2001).
529.	5.	Bakalova, S.M., Vladimirova, M.P., Stanoeva, E., Mitewa, M., Kaneti, J. Synthesis, electronic spectra and conformational properties of some N-substituted azacrown ethers <i>Bulgarian Chemical Communications</i> , 3 (4), 245-251 (2003).
530.	6.	Shamsipur, M., Ghavami, R., Hemmateenejad, B., Sharghi, H., Alizadeh, K., Niknam, K. Application of chemometrics and quantum chemical calculations to the study of complexation equilibria between 1,8-bis(o-aminophenoxy)-3,6-dioxaoctane and some transition and heavy metal ions in acetonitrile solution <i>Polish Journal of Chemistry</i> , 82 (8), 1621-1638 (2008).
531.	7.	Ahmedova, A., Burdzhiev, N., Ciattini, S., Stanoeva, E., Mitewa, M. Synthesis, structure, spectral and coordination properties of a crown ether derivative of 1,3-indandione. A new structural evidence for the versatile reactivity of 2-acetyl-1,3-indandione <i>Comptes Rendus Chimie</i> , 13 (10), 1269-1277 (2010).
C.6. Quantitative analysis of tautomeric equilibrium in 1-phenylazo-4-naphthols - a new approach. S.Stoyanov, L.Antonov, B.Soloveytschik & V.Petrova; <i>Dyes & Pigments</i> , 26 , 149-158 (1994)		
532.	1.	Wojciechowski, K., Szadowski, J. Effect of the sulphonic group position on the properties of monoazo dyes <i>Dyes and Pigments</i> , 44 (2), 137-147 (2000).
533.	2.	Jimenez-Cruz, F., Perez-Caballero, G., Hernandez-Ortega, S., Rubio-Arroyo, M. 2-(4-Methoxyphenyl-azo)-4-phenyl-phenol <i>Acta Crystallographica</i> , C56, 1028-1029 (2000).
534.	3.	Carvalho, C.E.M., Ferreira, V.F., Pinto, A.V., Do Carmo F.R. Pinto, M., Harrison, W. Heterocyclic derivatives from natural occurring naphthoquinones: Synthesis, characterization and X-ray structure of beta-lapachone hydrazo compounds <i>Dyes and Pigments</i> , 52 (3), 209-214 (2002).
535.	4.	Hihara, T., Okada, Y., Morita, Z. Azo-hydrazone tautomerism of phenylazonaphthol sulfonates and their analysis using the semiempirical molecular orbital PM5 method <i>Dyes and Pigments</i> , 59 (1), 25-41 (2003).
536.	5.	Hamada, K. Dyes, Dyeing and Functional Finishing <i>Sen'i Gakkaishi</i> , 60 (6) (2004).
537.	6.	Mashaly, M.M., Ramadan, A.T., El-Shetary, B.A., Dawoud, A.K. Azo complexes of Cu(II), Co(II), Ni(II), Cd(II), Th(IV), and UO ₂ (VI) ions. Mixed-ligand complexes, pyrolysis products and biological activity Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, 34 (8), 1349-1378 (2004).
538.	7.	Makedonski, P. Synthesis of new optical sensors for determination of pH and chloride ions in reinforced concrete Dissertation, Braunschweig Technical University, Germany (2004).
539.	8.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry <i>Journal of Molecular Structure</i> , 749 (1-3), 36-44. (2005).
540.	9.	Turgut, G., Odabaşoğlu, M. Preparation and characterization of chromophore group containing cyclotriphosphazenes:

		V. Spectroscopic investigation of some hexakis(p-phenylazo- α -naphthoxy)cyclotriphosphazenes Dyes and Pigments, 70 (2), 117-125 (2006).
541.	10.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
542.	11.	Venkatesh, G., Prabhu, A.A.M., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 1-(2,4-diamino phenylazo) naphthalene and 4-aminoazobenzene Journal of Fluorescence, 21 (4), 1485-1497 (2011).
543.	12.	Montagner, C., Bacci, M., Bracci, S., Freeman, R., Picollo, M. Library of UV-Vis-NIR reflectance spectra of modern organic dyes from historic pattern-card coloured papers Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 79 (5), 1669-1680 (2011).
544.	13.	Ghanadzadeh Gilani, A., Moghadam, M., Zakerhamidi, M.S., Moradi, E. Solvatochromism, tautomerism and dichroism of some azoquinoline dyes in liquids and liquid crystals Dyes and Pigments, 92 (3), 1320-1330 (2012).
545.	14.	Lin, Y.-C., Chen, C.-C., Ding, M.-F., Lin, S.-T. The substituent effect of 1-arylaazonaphthen-2-ols on azo-hydrazone tautomerization according to NMR analysis Journal of the Chinese Chemical Society, 62 (4), 335-341 (2015).
546.	15.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
547.	16.	Wojciechowski, K., Jedrzejczak, M. Photochemical Degradation of Disazo Dyes, R-Salt Derivatives, on Dyed Cotton Journal of Natural Fibers, 14 (3), 346-356 (2017).
C.7. Structure investigations of N-acylated amines by means of UV-Vis spectroscopy. S.Stoyanov, A.Dobrev & L.Antonov; <i>Monatshefte fuer Chemie</i> , 125 , 259-266 (1994)		
548.	1.	Oumi, M. Ab initio single reference theory for electronic excitation energies PhD Thesis, University of California, Berkeley (1998).
549.	2.	Oumi, M., Maurice, D., Head-Gordon, M. Ab initio calculations of the absorption spectrum of chalcone Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 55 (3), 525-537 (1999).
550.	3.	Prigge, J. Funktionalisierte Oligonitrile: Verbindungen mit langkettigen Alkoxyphenylresten und Azobenzolderivate Dissertation, University of Munster (2004).
551.	4.	Taniguchi, M., Lindsey, J.S. Database of Absorption and Fluorescence Spectra of >300 Common Compounds for use in PhotochemCAD Photochemistry and Photobiology, 94 (2), 290-327 (2018).
C.8. Spectroscopic study on the complexation of an aza-15-crown-5 containing chromofluoroionophore with Ba ²⁺ and Ca ²⁺ cations. N.Mateeva, V.Enchev, L.Antonov, T.Deligeorgiev & M.Mitewa; <i>Journal of Inclusion Phenomena</i> , 20 , 323-333 (1994)		
552.	1.	De Silva, A.P., Gunaratne, H.Q.N., Gunnlaugsson, T., Huxley, A.J.M., McCoy, C.P., Rademacher, J.T., Rice, T.E. Signaling recognition events with fluorescent sensors and switches Chemical Reviews, 97 (5), 1515-1566 (1997).

553.	2.	Valeur, B., Badaoui, F., Bardez, E., Bourson, J., Boutin, P., Chatelain, A., Devol, I., Larrey, B., Lefèvre, J.P., Soulet, A. Cation-Responsive Fluorescent Sensors. Chemosensors of Ion and Molecule Recognition. NATO ASI Series, 492C, 195-220 (1997).
554.	3.	Valeur, B., Leray, I. Design principles of fluorescent molecular sensors for cation recognition Coordination Chemistry Reviews, 205 (1), 3-40 (2000).
555.	4.	Mohite, B.S., Burungale, S.H., Mane, S.G., Patil, P.N. Solvent extraction separation of barium(II) from associated elements using 15-crown-5 from picrate medium Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 39 (5), 554-556 (2000).
556.	5.	Rurack, K., Bricks, J.L., Reck, G., Radeaglia, R., Resch-Genger, U. Chalcone-Analogue Dyes Emitting in the Near-Infrared (NIR): Influence of Donor-Acceptor Substitution and Cation Complexation on their Spectroscopic Properties and X-ray Structure Journal of Physical Chemistry A, 104 (14), 3087-3109 (2000).
557.	6.	Bricks, J.L., Slominskii, J.L., Kudinova, M.A., Tolmachev, A.I., Rurack, K., Resch-Genger, U., Rettig, W. Syntheses and photophysical properties of a series of cation-sensitive polymethine and styryl dyes Journal of Photochemistry and Photobiology A: Chemistry, 132 (3), 193-208 (2000).
558.	7.	Rurack, K. Flipping the light switch 'ON' - The design of sensor molecules that show cation-induced fluorescence enhancement with heavy and transition metal ions Spectrochimica Acta - Part A Molecular and Biomolecular Spectroscopy, 57 (11), 2161-2195 (2001).
559.	8.	Valeur, B., Leray, I. PCT (Photoinduced Charge Transfer) Fluorescent Molecular Sensors for Cation Recognition. New Trends in Fluorescence Spectroscopy. Springer Series on Fluorescence (Methods and Applications), 1, 187-207 (2001).
560.	9.	Mashraqui, S.H., Kumar, S., Vashi, D. Synthesis, Cation-Binding and Optical Spectral Studies of Photoemissive Benzothiazole Crown Ethers Journal of Inclusion Phenomena and Macrocyclic Chemistry, 48 (3-4), 125-130 (2004).
561.	10.	Yip, S. Design, synthesis, characterization and luminescence properties of alkynyl gold(I) complexes : strategies towards supramolecular architectures and host guest chemistry PhD Thesis. University of Hong Kong (2005).
562.	11.	巫昆展 高感度金屬陽離子感測器之設計與合成及其應用 (Design, Synthesis and Application of Highly Sensitive Metal Cation Sensors) PhD Thesis, National Taiwan University (2005).
563.	12.	Mashraqui, S.H., Sundaram, S., Bhasikuttan, A.C. New ICT probes: synthesis and photophysical studies of N-phenylaza-15-crown-5 aryl/heteroaryl oxadiazoles under acidic condition and in the presence of selected metal ions Tetrahedron, 63 (7), 1680-1688 (2007).
564.	13.	何美霖 高感度金屬陽離子暨生醫感測器之設計及其應用 (Sensing Bio-Hazard Metal Cation and Bio-Materials; Design, Synthesis and Spectroscopy) PhD Thesis, National Taiwan University (2008).
565.	14.	Mashraqui, S.H., Sundaram, S., Khan, T., Ghadigaonkar, S., Poonia, K. New PCT probes featuring N-phenylmonoaza-18-crown-6 and aryl/pyridyl oxadiazoles: Optical spectral studies of solvent effects and selected metal ions

		Journal of Inclusion Phenomena and Macrocyclic Chemistry, 52 (1-2), 81-90 (2008).
566.	15.	Freidzon, A.Y., Bagatur'Yants, A.A., Gromov, S.P., Alfimov, M.V. Recoordination of a metal ion in the cavity of a crown compound: A theoretical study : 3Absorption spectra and excited states of azacrown-containing styryl dyes and their complexes Russian Chemical Bulletin, 57 (10), 2045-2055 (2008).
567.	16.	Barreto, J., Venkatachalam, T.K., Joshi, T., Kreher, U., Forsyth, C.M., Reutens, D., Spiccia, L. Synthesis, characterization and coordination chemistry of aminophenylbenzothiazole substituted 1,4,7-triazacyclononane macrocycles Polyhedron, 52, 128-138 (2013).
568.	17.	Guliyev, R. Design strategies for chemosensors and their applications in molecular scale logic gates PhD Thesis, Bilkent University (2013).
569.	18.	Batat, P., Grauby-Heywang, C., Selektor, S., Silantyeva, D., Arslanov, V., McClenaghan, N., Jonusauskas, G. Artificial Iono- and Photosensitive Membranes Based on an Amphiphilic Aza-Crown-Substituted Hemicyanine ChemPhysChem, 15 (13), 2823-2833 (2014).
570.	19.	Chandrasekhar, B. 2-Alkyl/aryl/heteroarylbenzothiazole ring systems from o-aminothiophenol and its derivatives as versatile synthons Journal of Sulfur Chemistry, 35 (5), 538-586 (2014).
571.	20.	Uyar, T.B. Metal ion release and signaling in molecular logic gate design PhD Thesis, Bilkent University, Turkey (2016).
572.	21.	Pushina, M. Sensing of Anions, Amines, Diols, and Saccharides by Supramolecular Fluorescent Sensors Dissertation, Bowling Green State University, USA (2019).
C.9. Resolution of overlapping UV-Vis absorption bands - quantitative analysis of tautomeric equilibria. <u>L.Antonov & S.Stoyanov; <i>Analytica Chimica Acta</i>, 314, 225-232 (1995)</u>		
573.	1.	Blasco-Gómez, F., Campíns-Falcó, P., Bosch-Reig, F., Guomin, L. Curve resolution procedure for isolating the spectra of unknown interferences from the sample spectrum in analyte determinations Analyst, 123 (12), 2857-2863 (1998).
574.	2.	Elguero, J., Katritzky, A.R., Denisko, O.V. Prototropic tautomerism of heterocycles: Heteroaromatic tautomerism - General overview and methodology Advances in Heterocyclic Chemistry, 76, 1-84 (2000).
575.	3.	Jimenez-Cruz, F., Perez-Caballero, G., Hernandez-Ortega, S., Rubio-Arroyo, M. 2-(4-Methoxyphenyl-azo)-4-phenyl-phenol Acta Crystallographica, C56, 1028-1029 (2000).
576.	4.	E. Kleinpeter Recent Advances in Studying Tautomerism in Solution and in Solid State Advances in Molecular Structure Research 6, 97-129 (2000).
577.	5.	Osmialowski, B., Gawinecki, R. 1H NMR Supported analysis of the UV-Vis spectra (Z)-2-(2-hydroxy-2-phenyl vinyl)-pyridines Pakistan Journal of Applied Sciences, 2 (4), 491-493 (2002).
578.	6.	Hihara, T., Okada, Y., Morita, Z. Azo-hydrazone tautomerism of phenylazonaphthol sulfonates and their analysis using the semiempirical molecular orbital PM5 method Dyes and Pigments, 59 (1), 25-41 (2003).
579.	7.	McMillan, N.D., O'Rourke, B., Riedel, S.M., O'Neill, M., O'Neill, A.E., Bertho, A.C., Doyle, G., Beverley, K., Hammond, J., Augousti, A., Mason, J., Skelly, D.O., O'Neill, A.T., Boller, D., Cave, S.J. A new democratic phase coherent data-scatter technique for calibration, measurement,

		fingerprinting and rapid archival identification of ultraviolet-visible multi-component food spectra Analytica Chimica Acta, 511 (1), 119-135 (2004).
580.	8.	Panea, I., Pelea, M., Silberg, I.A. Azocoupling products. V. Electronic spectroscopy study of two azocoupling products of 1-(4-hydroxy-6-methyl-pyrimidin-2-yl) -3-methyl-pyrazolin-5-one Dyes and Pigments, 68 (2-3), 165-176 (2006).
581.	9.	Panea, I., Pelea, M., Silberg, I.A. Azocoupling products VI.11Part V, see reference [32]. The sensitivity to external factors of the UV-vis absorption spectra of the azocoupling product between 1-(4-hydroxy-6-methyl-pyrimidin-2-yl)-3-methylpyrazolin-5-one and 4-(N,N-dimethyl) aminobenzenediazonium salt Dyes and Pigments, 74 (1), 113-122 (2006).
582.	10.	Fernández, E., García-Río, L., Mejuto, J.C., Parajó, M. Determination of pyridine-2-azo-p-dimethylaniline acidity constants by spectra resolution methodology Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 66 (4-5), 1102-1106 (2007).
583.	11.	García-Río, L., Godoy, A. Use of spectra resolution methodology to investigate surfactant/ β - cyclodextrin mixed systems Journal of Physical Chemistry B, 111 (23), 6400-6409 (2007).
584.	12.	García-Río, L., Hervella, P., Mejuto, J.C., Parajó, M. Spectroscopic and kinetic investigation of the interaction between crystal violet and sodium dodecylsulfate Chemical Physics, 335 (2-3), 164-176 (2007) .
585.	13.	Vo, E., Murray, D.K., Scott, T.L., Attar, A.J. Development of a novel colorimetric indicator pad for detecting aldehydes Talanta, 73 (1), 87-94 (2007).
586.	14.	Shamsipur, M., Ghavami, R., Hemmateenejad, B., Sharghi, H., Alizadeh, K., Niknam, K. Application of chemometrics and quantum chemical calculations to the study of complexation equilibria between 1,8-bis(o-aminophenoxy)-3,6-dioxaoctane and some transition and heavy metal ions in acetonitrile solution Polish Journal of Chemistry, 82 (8), 1621-1638 (2008).
587.	15.	Suppakul, P. Intelligent Packing Handbook of Frozen Food Processing and Packaging (D.-W.Sun, editor), 2nd edition, CRC press (2011).
588.	16.	Kinchia, S., Joshi, B.S., Saraswat, P., Sharma, A., Joshi, J. Novel boron complexes derived from catechol and arylazonaphthols Rasayan Journal of Chemistry, 5 (4), 460-462 (2012).
589.	17.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study Structural Chemistry, 25 (4), 1257-1270 (2014).
590.	18.	Ajaj, I., Markovski, J., Rančić, M., Mijin, D., Milčić, M., Jovanović, M., Marinković, A. Solvent and structural effects in tautomeric 2(6)-hydroxy-4-methyl-6(2)-oxo-1-(substituted phenyl)-1,2(1,6)-dihydropyridine-3-carbonitriles: UV, NMR and quantum chemical study Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 150, art. 13723, 575-585 (2015).
591.	19.	Wojciechowski, K., Szuster, L. [Azo-Hyd] Tautomerism and Structure of Selected Metal Complex Dyes AM1 and ZINDO/1 Methods Computational Chemistry, 4, 97-118 (2016).
592.	20.	Ajaj, I., Assaleh, F.H., Markovski, J., Rančić, M., Brković, D., Milčić, M., Marinković, A.D. Solvatochromism and azo-hydrazo tautomerism of novel arylazo pyridone dyes:

		Experimental and quantum chemical study, Arabian Journal of Chemistry, 12 (8), 3463-3478 (2019).
593.	21.	Zheng, W., Liu, M., Lee, L.Y.S. Electrochemical instability of metal-organic frameworks: In situ spectroelectrochemical investigation of the real active sites ACS Catalysis, 10 (1), 81-92 (2020).
594.	22.	Yang, M., Zhou, Y.-N., Cao, Y.-N., Tong, Z., Dong, B., Chai, Y.-M. Advances and Challenges of Fe-MOFs Based Materials as Electrocatalysts for Water Splitting Applied Materials Today, 20, art. no. 100692 (2020).
595.	23.	Trnková, L., Třísková, I. Application of the elimination principle in spectral experiments Workshop of biophysical chemists and electrochemists, 64-65 (2020).
596.	24.	Smith, A. T., Ding, H., Gorski, A., Zhang, M., Gitman, P. A., Park, C., Hao, Z., Jiang, Y., Williams, B. L., Zeng, S., Kokkula, A., Yu, Q., Ding, G., Zeng, H., Sun, L. Multi-color Reversible Photochromisms via Tunable Light-Dependent Responses Matter, 2(3), 680-696 (2020).
597.	25.	Scheutz, G.M., Rowell, J.L., Wang, F.-S., Abboud, K.A., Peng, C.-H., Sumerlin, B.S. Synthesis of functional 1,2-dithiolanes from 1,3-bis-: Tert -butyl thioethers Organic and Biomolecular Chemistry, 18 (33), 6509-6513 (2020).
598.	26.	Lavrinenko, I. A., Holyavka, M. G., Chernov, V. E., Artyukhov, V. G. Second derivative analysis of synthesized spectra for resolution and identification of overlapped absorption bands of amino acid residues in proteins: Bromelain and ficin spectra in the 240–320 nm range Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 227, art. no. 117722 (2020).
599.	27.	Jones, C., An, S.J., Yoon, Y.K., Kothari, S., Sahastrabuddhe, S., Carbis, R. Spectroscopic characterisation of a series of Salmonella Typhi Vi-diphtheria toxoid glycoconjugate antigens differing in polysaccharide-protein ratio Journal of Pharmaceutical and Biomedical Analysis, 181, art. no. 113100 (2020).
600.	28.	Jones, C. Glycoconjugate vaccine batch consistency assessed by objective comparison of circular dichroism spectra Journal of Pharmaceutical and Biomedical Analysis, 191, art. no. 113571 (2020).
601.	29.	Furukawa, O. Prevention of false peak detection of Brillouin gain spectrum by using peak tracking and trend analysis Electronics and Communications in Japan, 103 (1-4), 3-9 (2020).
602.	30.	Neuerová, Z., Lyčka, A. 15N, 13C and 1H NMR study of tautomerism in 2-(phenyldiazenyl)-4-substituted naphthalen-1-ols. Influence of substitution in passive components on azo-hydrazo tautomerism Dyes and Pigments, 188, art. no. 109149 (2021).
603.	31.	Jędrzejczak, M., Wojciechowski, K. A numerical method of analyzing the composition of colored wastewater from dyeing plant International Journal of Environmental Science and Technology, doi: 10.1007/s13762-021-03208-2 (2021).
C.10. Tautomeric equilibrium in 1-phenylazo-2-naphthol - a quantitative study. L.Antonov, S.Stoyanov & T.Stoyanova; <i>Dyes & Pigments</i> , 27 , 133-142 (1995)		
604.	1.	Massafra, M.R., Selli, E., Salsa, S., Marcandalli, B. Kinetic study on the sunlight-induced degradation of acid azo dyes on silk Dyes and Pigments, 40 (2-3), 171-180 (1999).
605.	2.	Stadlbauer, W., Hojas, G. Synthesis of 4-azido-3-diazo-3H-pyrazolo[3,4-b]quinoline from 3-amino-4-hydrazino-1H-pyrazolo[3,4-b]quinoline

		Journal of the Chemical Society, Perkin Transactions 1, (18), 3085-3087 (2000).
606.	3.	Jimenez-Cruz, F., Perez-Caballero, G., Hernandez-Ortega, S., Rubio-Arroyo, M. 2-(4-Methoxyphenyl-azo)-4-phenyl-phenol Acta Crystallographica, C56, 1028-1029 (2000).
607.	4.	E. Kleinpeter Recent Advances in Studying Tautomerism in Solution and in Solid State Advances in Molecular Structure Research 6, 97-129 (2000).
608.	5.	Carvalho, C.E.M., Ferreira, V.F., Pinto, A.V., Do Carmo F.R. Pinto, M., Harrison, W. Heterocyclic derivatives from natural occurring naphthoquinones: Synthesis, characterization and X-ray structure of beta-lapachone hydrazo compounds Dyes and Pigments, 52 (3), 209-214 (2002).
609.	6.	Abraham, M.H., Amin, M., Zissimos, A.M. The lipophilicity of Sudan I and its tautomeric forms Physical Chemistry Chemical Physics, 4 (23), 5748-5752 (2002).
610.	7.	Cheon, K.-S., Park, Y.S., Kazmaier, P.M., Buncel, E. Studies of azo-hydrazone tautomerism and H-bonding in azo-functionalized dendrimers and model compounds Dyes and Pigments, 53 (1), 3-14 (2002).
611.	8.	Hihara, T., Okada, Y., Morita, Z. Azo-hydrazone tautomerism of phenylazonaphthol sulfonates and their analysis using the semiempirical molecular orbital PM5 method Dyes and Pigments, 59 (1), 25-41 (2003).
612.	9.	Wojciechowski, K., Gumulak, J. Benzidine-free direct dyes, amide derivatives of iso- and terephthalic acids Dyes and Pigments, 56 (3), 195-202 (2003).
613.	10.	Wyrębak, A., Wojciechowski, K. Composition of direct dyes resembling phthalic acids [Bezbenzydynowe barwniki bezpośrednie, pochodne kwasów ftalowych] Przegląd Włókienniczy, (8), 28-33 (2003).
614.	11.	Hamada, K. Dyes, Dyeing and Functional Finishing Sen'i Gakkaishi, 60 (6), (2004).
615.	12.	Ohshima, A., Momotake, A., Arai, T. Photochromism, thermochromism, and solvatochromism of naphthalene-based analogues of salicylideneaniline in solution Journal of Photochemistry and Photobiology A: Chemistry, 162 (2-3), 473-479 (2004).
616.	13.	Zarubina, N.P., Zavadskaya, L.K., Telegin, F.Yu. Spectral study of the state of dyes in chemical fibres Fibre Chemistry, 36 (4), 278-282 (2004).
617.	14.	Makedonski, P. Synthesis of new optical sensors for determination of pH and chloride ions in reinforced concrete Dissertation, Braunschweig Technical University, Germany (2004).
618.	15.	Mostafa, O.I., Abo Farha, S.A., El-Fass, M.M. Aggregation and tautomeric properties of some acid dyes. Part II Afinidad, 62 (516), 136-142 (2005).
619.	16.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
620.	17.	Turgut, G., Odabaşoğlu, M. Preparation and characterization of chromophore group containing cyclotriphosphazenes: V. Spectroscopic investigation of some hexakis(p-phenylazo- α -naphthoxy)cyclotriphosphazenes Dyes and Pigments, 70 (2), 117-125 (2006).
621.	18.	Ruyffelaere, F., Nardello, V., Schmidt, R., Aubry, J.-M.

		Photosensitizing properties and reactivity of aryl azo naphthol dyes towards singlet oxygen Journal of Photochemistry and Photobiology A: Chemistry, 183 (1-2), 98-105 (2006).
622.	19.	Ohshima, A., Momotake, A., Arai, T. Substituent effects on the ground-state properties of naphthalene-based analogues of salicylideneaniline in solution Bulletin of the Chemical Society of Japan, 79 (2), 305-311 (2006).
623.	20.	La, J.Q.-H., Michaelides, A.A., Manderville, R.A. Tautomeric equilibria in phenolic a-ring derivatives of prodigiosin natural products Journal of Physical Chemistry B, 111 (40), 11803-11811 (2007).
624.	21.	Hong, Y., Xiao, J.-Y., Chen, S.-P., Wang, W.-L., Huang, K.-L. Synthesis of substituted aromatic aldehydes bis-Schiff bases and their spectrum properties Chinese Journal of Organic Chemistry, 28 (8), 1404-1409 (2008).
625.	22.	Schmidt, M.U., Brüning, J., Wirth, D., Bolte, M. Two azo pigments based on B-naphthol Acta Crystallographica Section C: Crystal Structure Communications, 64 (9), o474-o477 (2008).
626.	23.	Basu Baul, T.S., Das, P., Chandra, A.K., Mitra, S., Pyke, S.M. The synthesis, characterization and structures of some 4-[(E)-1-{2-hydroxy-5-[(E)-2-(aryl)-1-diazenyl]phenyl}methylidene)amino]benzoic acid Dyes and Pigments, 82 (3), 379-386 (2009).
627.	24.	Rebane, R., Leito, I., Yurchenko, S., Herodes, K. A review of analytical techniques for determination of Sudan I-IV dyes in food matrixes Journal of Chromatography A, 1217 (17), 2747-2757 (2010).
628.	25.	Antony Muthu Prabhu, A., Venkatesh, G., Rajendiran, N. Azo-hydrazo tautomerism and inclusion complexation of 1-phenylazo-2-naphthols with various solvents and β -cyclodextrin Journal of Fluorescence, 20 (4), 961-972 (2010).
629.	26.	Lee, H.Y., Song, X., Park, H., Baik, M.-H., Lee, D. Torsionally responsive C ₃ -symmetric Azo dyes: Azo-hydrazone tautomerism, conformational switching, and application for chemical sensing Journal of the American Chemical Society, 132 (34), 12133-12144 (2010).
630.	27.	Kenny, P.W., Taylor, P.J. The Prediction of Tautomer Preference in Aqueous Solution OpenEye Scientific Software (2010).
631.	28.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
632.	29.	Montagner, C., Bacci, M., Bracci, S., Freeman, R., Picollo, M. Library of UV-Vis-NIR reflectance spectra of modern organic dyes from historic pattern-card coloured papers Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 79 (5), 1669-1680 (2011).
633.	30.	El-Shafei, A., Hinks, D., Freeman, H.S. Molecular modeling and predicting dye properties Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of Dyes, 1, 225-244 (2011).
634.	31.	Fragoza-Mar, L., Pérez-Caballero, G., García-Gutierrez, J.L., Jiménez-Cruz, F. Modeling and theory in resonance assisted hydrogen bonding (RAHB) systems: β -diketones (OHO) and arylazophenols (NHO) Molecular Systems: Theory and Modeling (F.Jiménez-Cruz, J.L.García-Gutiérrez, editors), 97-122, Transworld Research Network (2011).
635.	32.	Clark, M. Handbook of Textile and Industrial Dyeing, volume 1, Woodhead Publishing (2011), p. 243
636.	33.	Favre-Besse, F.-C., Poirel, O., Bersot, T., Kim-Grellier, E., Daumas, S., El Mestikawy, S., Acher, F.C., Pietrancosta, N. Design, synthesis and biological evaluation of small-azo-dyes as potent Vesicular

		Glutamate Transporters inhibitors European Journal of Medicinal Chemistry, 78, 236-247 (2014).
637.	34.	Mansouri, L., Zouchoune, B. Substitution effects and electronic properties of the azo dye (1-phenylazo-2-naphthol) species: A TD-DFT electronic spectra investigation Canadian Journal of Chemistry, 93 (5), 509-517 (2014).
638.	35.	Lin, S.-T., Lin, L.-H., Lin, Y.-C., Ding, M.-F. Substituent effect on the tautomerization of 1-aryazonaphthalen-2-ols by mass spectrometric analysis Journal of the Chinese Chemical Society, 62 (3), 257-262 (2015).
639.	36.	Sankaranarayanan, R.K., Rajendiran, N. Nanorod formation of cyclodextrin-covered sudan dyes through supramolecular self-assembly Journal of Experimental Nanoscience, 10 (6), 407-428 (2015).
640.	37.	Fabian, W.M.F., Ali, S.T. Design of molecular switches and sensors based on proton transfer - Theory vs. Experiment AIP Conference Proceedings, 1642, 465-468 (2015).
641.	38.	Tiwari, K. Synthesis and Characterization of some Schiff Bases as Chemosensors for the Detection of Al ³⁺ and Water Content PhD Thesis, Banras Hindu University (2015).
642.	39.	Ghasemian, M., Kakanejadifard, A., Karami, T. Synthesis, structural characterization, antimicrobial activities and theoretical investigations of some 4-(4-aminophenylsulfonyl) phenylimino) methyl)-4-(aryldiazenyl) phenol Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 168, 190-198 (2016).
643.	40.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
644.	41.	Angelin, E.M., Oliveira, M.C., Nevin, A., Picollo, M., Melo, M.J. To be or not to be an azo pigment: chemistry for the preservation of historical β -naphthol reds in cultural heritage Dyes and Pigments, 190, art. no. 109244 (2021)
C.11. Spectrophotometric investigation on the complex formation of an aza-15-crown-5 containing styryl dyes with Ba ²⁺ and Ca ²⁺ cations. M.Mitewa, N.Mateeva, L.Antonov & T.Deligeorgiev; <i>Dyes & Pigments</i> , 27 , 219-225 (1995)		
645.	1.	Kovtun, Yu.P., Shandura, N.P., Tolmachev, A.I. Ionochromic Styryl Dye Bases Russian Journal of Organic Chemistry, 33 (11), 1669-1673 (1997).
646.	2.	Kovtun, Yu.P., Shandura, N.P., Tolmachev, A.I. Ionochromic bases of cyanine dyes Zhurnal Nauchnoi I Prikladnoi Fotografii, 42 (3), 63-69 (1997).
647.	3.	Mohite, B.S., Burungale, S.H., Mane, S.G., Patil, P.N. Solvent extraction separation of barium(II) from associated elements using 15-crown-5 from picrate medium Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 39 (5), 554-556 (2000).
648.	4.	Mishra, A., Behera, R.K., Behera, P.K., Mishra, B.K., Behera, G.B. Cyanines during the 1990s: a review Chemical Reviews, 100 (6), 1973-2011 (2000).
649.	5.	Mohite, B.S., Burungale, S.H., Mane, S.G. Liquid-liquid extraction and separation of barium from associated elements using dibenzo-24-crown-8

		Journal of the Indian Chemical Society, 77 (9), 455-457 (2000).
650.	6.	Gunnlaugsson, T., Nieuwenhuyzen, M., Richard, L., Thoss, V. A novel optically based chemosensor for the detection of blood Na ⁺ Tetrahedron Letters, 42 (28), 4725-4728 (2001).
651.	7.	Gunnlaugsson, T., Nieuwenhuyzen, M., Richard, L., Thoss, V. Novel sodium-selective fluorescent PET and optically based chemosensors: Towards Na ⁺ determination in serum Journal of the Chemical Society, Perkin Transactions 2, (1), 141-150 (2002).
652.	8.	Gunnlaugsson, T., Leonard, J.P. Synthesis and evaluation of colorimetric chemosensors for monitoring sodium and potassium ions in the intracellular concentration range Journal of the Chemical Society, Perkin Transactions 2, (12), 1980-1985 (2002).
653.	9.	Abd El-Aal, R.M., Koraiem, A.I.M., El-Deen, N.S. Pyrazolo quinone heterocyclic compounds and metal complex derivatives in the synthesis of cyanine dyes Dyes and Pigments, 63 (3), 301-314 (2004).
654.	10.	Mashraqui, S.H., Mistry, H., Sundaram, S. π -aryl/heteroaryl conjugated coumarin-thiazoles: Synthesis, optical spectral and nonlinear optic properties Journal of Heterocyclic Chemistry, 43 (4), 917-923 (2006).
655.	11.	Shamsipur, M., Ghavami, R., Hemmateenejad, B., Sharghi, H., Alizadeh, K., Niknam, K. Application of chemometrics and quantum chemical calculations to the study of complexation equilibria between 1,8-bis(o-aminophenoxy)-3,6-dioxaoctane and some transition and heavy metal ions in acetonitrile solution Polish Journal of Chemistry, 82 (8), 1621-1638 (2008).
656.	12.	Давиденко, И.Г., Сломинский, Ю.Л., Качковский, А.Д., Толмачев, А.И. Полиметиновые красители — производные 7,8-дигидробензо[cd]фуоро[2,3-f]индола Український хімічний журнал, 74 (4), 105-113 (2008).
657.	13.	Freidzon, A.Y., Bagatur'Yants, A.A., Gromov, S.P., Alfimov, M.V. Recoordination of a metal ion in the cavity of a crown compound: A theoretical study : 3Absorption spectra and excited states of azacrown-containing styryl dyes and their complexes Russian Chemical Bulletin, 57 (10), 2045-2055 (2008).
658.	14.	Freidzon, A.Y., Bagatur'Yants, A.A., Ushakov, E.N., Gromov, S.P., Alfimov, M.V. Ab initio study of the structure, spectral, ionochromic, and fluorochromic properties of benzoazacrown-containing dyes as potential optical molecular sensors International Journal of Quantum Chemistry, 111 (11), 2649-2662 (2011).
659.	15.	Lešková, M., Bazel, Y.R., Torok, M., Studenyak, Y. Structure and properties of 2-[(E)-2-(4-dipropylaminophenyl)-1-ethenyl]-1, 3,3-trimethyl- 3H-indolium chloride Chemical Papers, 67 (4), 415-422 (2013).
660.	16.	Batat, P., Grauby-Heywang, C., Selektor, S., Silant'yeva, D., Arslanov, V., McClenaghan, N., Jonusauskas, G. Artificial Iono- and Photosensitive Membranes Based on an Amphiphilic Aza-Crown- Substituted Hemicyanine ChemPhysChem, 15 (13), 2823-2833 (2014).
661.	17.	Shokurov, A.V., Silant'yeva, D.A., Arslanov, V.V., Selektor, S.L. Factors affecting the structural organization of hemicyanine chromoionophores in langmuir monolayers Macroheterocycles, 9 (4), 395-401 (2016).
662.	18.	Selektor, S.L., Shcherbina, M.A., Bakirov, A.V., Batat, P., Grauby-Heywang, C., Grigorian, S., Arslanov, V.V., Chvalun, S.N. Cation-Controlled Excimer Packing in Langmuir-Blodgett Films of Hemicyanine Amphiphilic Chromoionophores Langmuir, 32 (2), 637-643 (2016).
663.	19.	Koraiem, A.I., El- Shafie, L.M., Abdallah, I.M., Abdelatif, F.F., Abdelaal, R.M.

		Microwave Assisted Synthesis and Solvato (Media)-Chromic Behaviour of Some New Series Photosensitizing Dyes Journal of Applicable Chemistry, 7 (2), 309-324 (2018).
C.12. Colour and constitution relationships in some potentially tautomeric acid azo dyes - C.I. Acid Red 138 and its homologues. S.Stoyanov, T.Iijima, T.Stoyanova & L.Antonov; <i>Dyes & Pigments</i> , 27 , 237-247 (1995)		
664.	1.	Massafra, M.R., Selli, E., Salsa, S., Marcandalli, B. Kinetic study on the sunlight-induced degradation of acid azo dyes on silk <i>Dyes and Pigments</i> , 40 (2-3), 171-180 (1999).
665.	2.	Wojciechowski, K., Szadowski, J. Effect of the sulphonic group position on the properties of urea dyes <i>Dyes and Pigments</i> , 42 (3), 237-247 (1999).
666.	3.	Wojciechowski, K., Szadowski, J. Effect of the sulphonic group position on the properties of monoazo dyes <i>Dyes and Pigments</i> , 44 (2), 137-147 (2000).
667.	4.	Shore, J. <i>Colorants and Auxiliaries</i> , vol.1, SDC, p. 229 (2002).
668.	5.	Zarubina, N.P., Zavadskaya, L.K., Telegin, F.Yu. Spectral study of the state of dyes in chemical fibres <i>Fibre Chemistry</i> , 36 (4), 278-282 (2004).
669.	6.	Abbott, L.C., Batchelor, S.N., Oakes, J., Lindsay Smith, J.R., Moore, J.N. Semiempirical and Ab initio studies of the structure and spectroscopy of the Azo dye direct blue 1: Comparison with experiment <i>Journal of Physical Chemistry A</i> , 108 (46), 10208-10218 (2004).
670.	7.	Umemura, J., Park, S.R. Resonance raman spectra and tautomeric structures of a surface-active azo dye, CI Acid Red 138, adsorbed at the aqueous solution-air interface <i>Vibrational Spectroscopy</i> , 38 (1-2), 29-32 (2005).
671.	8.	Millán, D., Domínguez, M., Rezende, M.C. Solvatochromic hydrazone anions derived from chalcones <i>Dyes and Pigments</i> , 77 (2), 441-445 (2008).
672.	9.	Panea, I., Pelea, M., Coroş, M., Silaghi-Dumitrescu, L., Bâldea, I. The comparative study of the influences of the external factors on the UV-VIS absorption spectra of some potentially tautomeric azocoupling products <i>Studia Universitatis Babes-Bolyai Chimia</i> , 2, 15-31 (2009).
673.	10.	Sekar, N. Acid dyes <i>Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of Dyes</i> , 1, 486-514 (2011).
C.13. Azo-quinonehydrazone tautomerism in 2-phenylazo-1-naphthol. L.Antonov & S.Stoyanov; <i>Dyes & Pigments</i> , 28 , 31-39 (1995)		
674.	1.	Hodges, G.R., Lindsay Smith, J.R., Oakes, J. Mechanism of oxidation of azo dyes by a sterically hindered anionic oxoiron(IV) porphyrin in aqueous solution <i>Journal of the Chemical Society. Perkin Transactions 2</i> , (3), 617-627 (1998).
675.	2.	Massafra, M.R., Selli, E., Salsa, S., Marcandalli, B. Kinetic study on the sunlight-induced degradation of acid azo dyes on silk <i>Dyes and Pigments</i> , 40 (2-3), 171-180 (1999).
676.	3.	Wojciechowski, K., Szadowski, J. Effect of the sulphonic group position on the properties of urea dyes <i>Dyes and Pigments</i> , 42 (3), 237-247 (1999).
677.	4.	Wojciechowski, K., Szadowski, J. Effect of the sulphonic group position on the properties of monoazo dyes <i>Dyes and Pigments</i> , 44 (2), 137-147 (2000).
678.	5.	Saysell, C.G., Murray, J.M., Wilmot, C.M., Brown, D.E., Dooley, D.M., Phillips, S.E.V., McPherson, M.J., Knowles, P.F.

		Investigation into the mechanism of $\lambda(\text{max})$ shifts and their dependence on pH for the 2-hydrazinopyridine derivatives of two copper amine oxidases Journal of Molecular Catalysis - B Enzymatic, 8 (1-3), 17-25 (2000).
679.	6.	E. Kleinpeter Recent Advances in Studying Tautomerism in Solution and in Solid State Advances in Molecular Structure Research 6, 97-129 (2000).
680.	7.	Abraham, M.H., Amin, M., Zissimos, A.M. The lipophilicity of Sudan I and its tautomeric forms Physical Chemistry Chemical Physics, 4 (23), 5748-5752 (2002).
681.	8.	Carvalho, C.E.M., Ferreira, V.F., Pinto, A.V., Do Carmo F.R. Pinto, M., Harrison, W. Heterocyclic derivatives from natural occurring naphthoquinones: Synthesis, characterization and X-ray structure of beta-lapachone hydrazo compounds Dyes and Pigments, 52 (3), 209-214 (2002).
682.	9.	Shore, J. Colorants and Auxiliaries, vol.1, SDC, p. 229 (2002).
683.	10.	Hihara, T., Okada, Y., Morita, Z. Azo-hydrazone tautomerism of phenylazonaphthol sulfonates and their analysis using the semiempirical molecular orbital PM5 method Dyes and Pigments, 59 (1), 25-41 (2003).
684.	11.	Wojciechowski, K., Gumulak, J. Benzidine-free direct dyes, amide derivatives of iso- and terephthalic acids Dyes and Pigments, 56 (3), 195-202 (2003).
685.	12.	Wojciechowski, K., Wyřębak, A., Gumulak, J. Direct dyes derived from iso- and terephthalic acids Dyes and Pigments, 56 (2), 99-109 (2003).
686.	13.	Wyřębak, A., Wojciechowski, K. Composition of direct dyes resembling phthalic acids [Bezbenzydynowe barwniki bezpośrednie, pochodne kwasów ftalowych] Przegląd Włókienniczy, (8), 28-33 (2003).
687.	14.	Zollinger, H. Color Chemistry, 3rd edition, Verlag Helvetica Chimica Acta, p. 193 (2003).
688.	15.	Hamada, K. Dyes, Dyeing and Functional Finishing Sen'i Gakkaishi, 60 (6) (2004).
689.	16.	Mashaly, M.M., Ramadan, A.T., El-Shetary, B.A., Dawoud, A.K. Azo complexes of Cu(II), Co(II), Ni(II), Cd(II), Th(IV), and UO ₂ (VI) ions. Mixed-ligand complexes, pyrolysis products and biological activity Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, 34 (8), 1349-1378 (2004).
690.	17.	Makedonski, P. Synthesis of new optical sensors for determination of pH and chloride ions in reinforced concrete Dissertation, Braunschweig Technical University, Germany (2004).
691.	18.	Chirita, C.N., Congdon, E.E., Yin, H., Kuret, J. Triggers of full-length tau aggregation: A role for partially folded intermediates Biochemistry, 44 (15), 5862-5872 (2005).
692.	19.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
693.	20.	Pielesz, A., Weseřucha-Birczyńska, A., Freeman, H.S., Włochowicz, A. Characterizing of model direct dyes interactions with cotton cellulose via 1D and 2D raman spectroscopy Cellulose, 12 (5), 497-506 (2005).
694.	21.	Turgut, G., Odabařořlu, M. Preparation and characterization of chromophore group containing cyclotriphosphazenes:

		V. Spectroscopic investigation of some hexakis(p-phenylazo- α -naphthoxy)cyclotriphosphazenes Dyes and Pigments, 70 (2), 117-125 (2006).
695.	22.	Ohshima, A., Momotake, A., Arai, T. Substituent effects on the ground-state properties of naphthalene-based analogues of salicylideneaniline in solution Bulletin of the Chemical Society of Japan, 79 (2), 305-311 (2006).
696.	23.	Haishan, Y. Triggers and Enhancers of Tau Aggregation: Implication for AD Pathogenesis Dissertation, Ohio State University (2006).
697.	24.	Üzdemir, A.F. Coupling reactions of 3,8-diamino benzo[c]cinnoline diazonium compounds with some phenolic substances PhD Thesis, University of Ankara (2006).
698.	25.	Wojciechowski, K., Szuster, L., Urbaniak, M. Analysis of C.I. acid blue 193 structure by means of quantum-chemical methods Annals of the Polish Chemical Society, 628-631 (2007).
699.	26.	Schmidt, M.U., Brüning, J., Wirth, D., Bolte, M. Two azo pigments based on B-naphthol Acta Crystallographica Section C: Crystal Structure Communications, 64 (9), o474-o477 (2008).
700.	27.	Almeida, M.R., Stephani, R., Dos Santos, H.F., De Oliveira, L.F.C. Spectroscopic and theoretical study of the "Azo"-Dye e124 in condensate phase: evidence of a dominant hydrazo form Journal of Physical Chemistry A, 114 (1), 526-534 (2010).
701.	28.	Ryan, A., Laurieri, N., Westwood, I., Wang, C.-J., Lowe, E., Sim, E. A novel mechanism for azoreduction Journal of Molecular Biology, 400 (1), 24-37 (2010).
702.	29.	Genady, A.R. Synthesis and characterization of novel color chemosensors based on azo dyes for possible application in opioid pharmacology Journal of Heterocyclic Chemistry, 47 (5), 1134-1143 (2010).
703.	30.	Pielesz, A. Streaming Potential – Characteristics of Dyed Cotton Fibres Fibres & Textiles in Eastern Europe, 18 (2), 103-106 (2010).
704.	31.	Kasimogullari, R., Zengin, B., Maden, M., Mert, S., Kazaz, C. Synthesis of new derivatives of 1-(3-aminophenyl)-4-benzoyl-5-phenyl-1H-pyrazole-3-carboxylic acid Journal of the Serbian Chemical Society, 75 (12), 1625-1638 (2010).
705.	32.	Kenny, P.W., Taylor, P.J. The Prediction of Tautomer Preference in Aqueous Solution OpenEye Scientific Software (2010).
706.	33.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
707.	34.	Çanakçı, D. The synthesis of polymer and metal complexes of azodyes and search of usability of textile PhD Thesis, Çukurova University (2010).
708.	35.	Venkatesh, G., Prabhu, A.A.M., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 1-(2,4-diamino phenylazo) naphthalene and 4-aminoazobenzene Journal of Fluorescence, 21 (4), 1485-1497 (2011).
709.	36.	Jacquemin, D., Preat, J., Perpète, E.A., Vercauteren, D.P., André, J.-M., Ciofini, I., Adamo, C. Absorption spectra of azobenzenes simulated with time-dependent density functional theory International Journal of Quantum Chemistry, 111 (15), 4224-4240 (2011).

710.	37.	Montagner, C., Bacci, M., Bracci, S., Freeman, R., Picollo, M. Library of UV-Vis-NIR reflectance spectra of modern organic dyes from historic pattern-card coloured papers <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 79 (5), 1669-1680 (2011).
711.	38.	Clark, M. Handbook of Textile and Industrial Dyeing, volume 1, Woodhead Publishing (2011), p. 243
712.	39.	Zeid, I.F., Said, M.M., Darwish, S.A., Soliman, F.M. Chemistry of phosphorus ylides. Part 38: Synthesis and anticancer activity of cyclobutane, oxaphosphetane, oxaphosphinine, azaphosphetidene, and pyridazine derivatives <i>Monatshefte für Chemie</i> , 145 (4), 639-650 (2014).
713.	40.	Ferreira, G.R. Estudo espectroscópico do equilíbrio tautomérico em azocompostos derivados do 1-fenil-azo-2-naftol e seus compostos de coordenação Doutorado em Química, Universidade Federal de Juiz de Fora (2014).
714.	41.	Wu, Z., Zhang, R., Rong, Z. Azo-hydrazone tautomerism of azo dyes <i>Huagong Xuebao/CIESC Journal</i> , 66 (1), 52-59 (2015).
715.	42.	Christie, R. Colour Chemistry, RSC, 2nd edition, p. 98 (2015).
716.	43.	Dinh, Hien, N., Mai, N.T.N., Hoan, D.Q. Aci-Quinone Compounds from Eugenoxyacetic Acid and Methyleugenol: Preparation and Reaction <i>Current Organic Synthesis</i> , 13 (2), 300-305 (2016).
717.	44.	Wojciechowski, K., Szuster, L. [Azo-Hyd] Tautomerism and Structure of Selected Metal Complex Dyes AM1 and ZINDO/1 Methods <i>Computational Chemistry</i> , 4, 97-118 (2016).
718.	45.	Trupej, N., Škerget, M., Petek, O., Cör, D., Knez, Ž. Thermodynamic Data for Processing Naphthol with Supercritical Carbon Dioxide <i>Journal of Chemical and Engineering Data</i> , 62 (4), 1223-1231 (2017).
719.	46.	Saleh, F.M., Hassaneen, H.M., Mohamed, M.F., Mohamed, Y.S. Synthesis, cytotoxicity and docking simulation of novel annulated dihy-droisoquinoline heterocycles <i>Mini-Reviews in Medicinal Chemistry</i> , 20 (12), 1062-1071 (2020).
C.14. Noise reduction in second derivative UV-Vis spectroscopy. <u>L.Antonov & S.Stoyanov; <i>Spectroscopy Letters</i>, 29, 231-239 (1996); 29, 967 (1996)</u>		
720.	1.	Howell, J.A., Sutton, R.E. Ultraviolet and absorption light spectrometry <i>Analytical Chemistry</i> , 70 (12), 107R-118R (1998).
721.	2.	Bosch Ojeda, C., Sanchez Rojas, F. Recent developments in derivative ultraviolet/visible absorption spectrophotometry <i>Analytica Chimica Acta</i> , 518 (1-2), 1-24 (2004).
722.	3.	Morawski, Z. Sensor Applications of Digital Signal Processing <i>Encyclopedia of Sensors</i> (C.A.Grimes, E.C.Dickey, M.V.Pishko, editors), 9, 135-163 (2006).
723.	4.	Han, Y.R., Lee, P.I. Effect of Extent of Supersaturation on the Evolution of Kinetic Solubility Profiles <i>Molecular Pharmaceutics</i> , 14 (1), 206-220 (2017).
C.15. Step by step filter - an approach for noise reduction in the derivative UV-Vis spectra. <u>L.Antonov & S.Stoyanov; <i>Analytica Chimica Acta</i>, 324, 77-83 (1996)</u>		
724.	1.	Leung, A.K.-M., Chau, F.-T., Gao, J.-B. Wavelet transform: A method for derivative calculation in analytical chemistry <i>Analytical Chemistry</i> , 70 (24), 5222-5229 (1998).
725.	2.	Saldanha, T.C.B., De Araújo, M.C.U., De Barros Neto, B. Simultaneous multicomponent analysis by UV-VIS spectrophotometry [Análise

		multicomponente simultânea por espectrofotometria de absorção molecular] Quimica Nova, 22 (6), 847-853 (1999).
726.	3.	Shao, X., Pang, C., Su, Q. A novel method to calculate the approximate derivative photoacoustic spectrum using continuous wavelet transform Fresenius' Journal of Analytical Chemistry, 367 (6), 525-529 (2000).
727.	4.	Mikhailyuk, I.K., Razzhivin, A.P. Method for decomposing spectra into bands using the initial spectrum and a set of its derivatives Biophysics, 48 (3), 383-388 (2003).
728.	5.	Михайлюк, И.К. Разработка и применение методов производной спектроскопии высокого порядка для выявления тонкой структуры оптических спектров фотосинтетических пигмент-белковых комплексов Диссертация (кфмн), Московский государственный университет (2003).
729.	6.	Bosch Ojeda, C., Sanchez Rojas, F. Recent developments in derivative ultraviolet/visible absorption spectrophotometry Analytica Chimica Acta, 518 (1-2), 1-24 (2004).
730.	7.	Mikhailyuk, I.K., Lokstein, H., Razjivin, A.P. A method of spectral subband decomposition by simultaneous fitting the initial spectrum and a set of its derivatives Journal of Biochemical and Biophysical Methods, 63 (1), 10-23 (2005).
731.	8.	Stevenson, P.G., Mnatsakanyan, M., Guiochon, G., Shalliker, R.A. Peak picking and the assessment of separation performance in two-dimensional high performance liquid chromatography Analyst, 135 (7), 1541-1550 (2010).
732.	9.	Stevenson, P.G., Gritti, F., Guiochon, G. Automated methods for the location of the boundaries of chromatographic peaks Journal of Chromatography A, 1218 (45), 8255-8263 (2011).
733.	10.	Stevenson, P.G., Guiochon, G. Cumulative area of peaks in a multidimensional high performance liquid chromatogram Journal of Chromatography A, 1308, 79-85 (2013).
734.	11.	Czarnecki, M.A. Resolution enhancement in second-derivative spectra Applied Spectroscopy, 69 (1), 67-74 (2015).
735.	12.	Li, Y., Pan, C., Xue, Y., Meng, X., Ding, Y. A novel signal enhancement method for overlapped peaks with noise immunity Spectroscopy Letters, 49 (4), 285-293 (2016).
736.	13.	Pal, D., Chunchu, M. Smoothing of vehicular trajectories under heterogeneous traffic conditions to extract microscopic data Canadian Journal of Civil Engineering, 45 (6), 435-445 (2018).
737.	14.	Shao, X., Cui, X., Wang, M., Cai, W. High order derivative to investigate the complexity of the near infrared spectra of aqueous solutions Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 213, 83-89 (2019).
738.	15.	Mallawaarachchi, S., Liu, Y., Thang, S.H., Cheng, W., Premaratne, M. Machine learning based temperature prediction of poly(: N -isopropylacrylamide)-capped plasmonic nanoparticle solutions Physical Chemistry Chemical Physics, 21 (44), 24808-24819 (2019).
739.	16.	Amrutsamanvar, R.B., Muthurajan, B.R., Vanajakshi, L.D. Extraction and analysis of microscopic traffic data in disordered heterogeneous traffic conditions Transportation Letters, 13 (1), 1-20 (2021).
C.16. Spectral properties of aza-15-crown-5 containing styryl dyes in solution.		

<u>L.Antonov, N.Mateeva, M.Mitewa & S.Stoyanov; <i>Dyes & Pigments</i>, 30, 235-243 (1996)</u>		
740.	1.	Abd El-Aal, R.M., Koraiem, A.I.M., El-Deen, N.S. Pyrazolo quinone heterocyclic compounds and metal complex derivatives in the synthesis of cyanine dyes <i>Dyes and Pigments</i> , 63 (3), 301-314 (2004).
741.	2.	Maynadié, J., Delavaux-Nicot, B., Lavabre, D., Fery-Forgues, S. Monosubstituted ferrocenyl chalcones: Effect of structural changes upon the ability to detect calcium by absorption spectroscopy <i>Journal of Organometallic Chemistry</i> , 691 (6), 1101-1109 (2006).
742.	3.	Delavaux-Nicot, B., Maynadié, J., Lavabre, D., Fery-Forgues, S. Two electroactive ferrocenyl chalcones as original optical chemosensors for Ca ²⁺ and Ba ²⁺ cations in CH ₃ CN <i>Journal of Organometallic Chemistry</i> , 692 (16), 3351-3362 (2007).
743.	4.	Freidzon, A.Y., Bagatur'Yants, A.A., Gromov, S.P., Alfimov, M.V. Recoordination of a metal ion in the cavity of a crown compound: A theoretical study : 3Absorption spectra and excited states of azacrown-containing styryl dyes and their complexes <i>Russian Chemical Bulletin</i> , 57 (10), 2045-2055 (2008).
744.	5.	Freidzon, A.Y., Bagatur'Yants, A.A., Ushakov, E.N., Gromov, S.P., Alfimov, M.V. Ab initio study of the structure, spectral, ionochromic, and fluorochromic properties of benzoazacrown-containing dyes as potential optical molecular sensors <i>International Journal of Quantum Chemistry</i> , 111 (11), 2649-2662 (2011).
745.	6.	Gilani, A.G., Shekarsaraee, S., Moghadam, M. Influence of a crown ether on the spectral properties of triarylmethane dyes in aqueous and micellar environments <i>Physical Chemistry Research</i> , 1 (1), 52-60 (2013).
746.	7.	Lukovskaya, E., Glazova, Y., Fedorov, Y., Bobilyova, A., Mizerev, A., Moiseeva, A., Anisimov, A., Peregudov, A., Fedorova, O. Effect of the chromophoric unit on the complex formation properties in the crown ether containing styryl dyes <i>Dyes and Pigments</i> , 104, 151-159 (2014).
C.17. Ammonium-azonium tautomerism in some N,N-dialkylaminoazodyes: Part 1 - General considerations. T.Stoyanova, S.Stoyanov, <u>L.Antonov</u> & V.Petrova; <i>Dyes & Pigments</i> , 31 , 1-12 (1996)		
747.	1.	Яценко, А.В. Влияние кристаллической упаковки на электронную и пространственную структуру молекул органических красителей Дисертация для дхн, МГУ (2003).
748.	2.	Hamada, K. Dyes, Dyeing and Functional Finishing <i>Sen'i Gakkaishi</i> , 60 (6), (2004).
749.	3.	Borello, L., Onida, B., Barolo, C., Edler, K.J., Areán, C.O., Garrone, E. Accessibility of dye molecules embedded in surfactant-silica hybrid materials in both powder and film forms <i>Sensors and Actuators, B: Chemical</i> , 100 (1-2), 107-111 (2004).
750.	4.	Onida, B., Borello, L., Fiorilli, S., Barolo, C., Edler, K.J., Otero Areán, C., Garrone, E. Accessibility to gases of dye molecules in hybrid surfactant-silica mesophases <i>Studies in Surface Science and Catalysis</i> , 154 C, 3010-3016 (2004).
751.	5.	Onida, B., Borello, L., Fiorilli, S., Bonelli, B., Barolo, C., Viscardi, G., Macquarrie, D.J., Garrone, E. One-pot synthesis and characterization of HMS silica carrying Disperse-Red-1 (DR1) covalently bonded to the inner surface <i>Comptes Rendus Chimie</i> , 8 (3-4), 655-661 (2005).
752.	6.	Park, J. Studies on Inclusion Complexes of Cyclodextrin and Dyes DPhil Thesis, Georgia Institute of Technology
753.	7.	Bianchini, R., Catelani, G., Cecconi, R., D'Andrea, F., Frino, E., Isaad, J., Rolla, M.

		'Naturalization' of textile disperse dyes through glycoconjugation: the case of a bis(2-hydroxyethyl) group containing azo dye Carbohydrate Research, 343 (12), 2067-2074 (2008).
754.	8.	Roulia, M., Vassiliadis, A.A. Clay-catalyzed phenomena of cationic-dye aggregation and hydroxo-chromium oligomerization Microporous and Mesoporous Materials, 122 (1-3), 13-19 (2009).
755.	9.	Park, J., Koh, J. The synthesis and spectral properties of an encapsulated aminoazobenzene dye Dyes and Pigments, 82 (3), 347-352 (2009).
756.	10.	Bergbreiter, D.E., Priyadarshani, N. Syntheses of terminally functionalized polyisobutylene derivatives using diazonium salts Journal of Polymer Science, Part A: Polymer Chemistry, 49 (8), 1772-1783 (2011).
757.	11.	Babür, B., Ertan, N. Part 1: Synthesis and visible absorption spectra of some new monoazo dyes derived from ethyl 2-amino-4-(4'-substitutedphenyl)thiophenes Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 131, 319-328 (2014).
758.	12.	MacHado, V.G., Stock, R.I., Reichardt, C. Pyridinium N-phenolate betaine dyes Chemical Reviews, 114 (20), 10429-10475 (2014).
759.	13.	Cigáň, M., Jakusová, K., Donovalová, J., Filo, J., Horváth, M., Gáplovský, A. Fluorescence of isatin N-phenylsemicarbazones: Aggregation and hydrazide-hydrazone tautomerism Journal of Physical Organic Chemistry, 28 (5), 337-346 (2015).
760.	14.	Dong, M., Babalhavaeji, A., Hansen, M.J., Kálmán, L., Woolley, G.A. Red, far-red, and near infrared photoswitches based on azonium ions Chemical Communications, 51 (65), 12981-12984 (2015).
761.	15.	Weston, C.E., Richardson, R.D., Fuchter, M.J. Photoswitchable basicity through the use of azoheteroarenes Chemical Communications, 52 (24), 4521-4524 (2016).
762.	16.	Weston, C.E. Novel azoheteroaryl photoswitches and their applications Dissertation, Imperial College London, UK (2016).
763.	17.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
764.	18.	Martínez-López, D., Babalhavaeji, A., Sampedro, D., Andrew Woolley, G. Synthesis and characterization of bis(4-amino-2-bromo-6-methoxy)azobenzene derivatives Beilstein Journal of Organic Chemistry, 15, 3000-3008 (2019).
765.	19.	Filo, J., Tisovský, P., Csicsai, K., Donovalová, J., Gáplovský, M., Gáplovský, A., Cigáň, M. Tautomeric photoswitches: Anion-assisted azo/azine-to-hydrazone photochromism RSC Advances, 9 (28), 15910-15916 (2019).
766.	20.	Benkhaya, S., M'rabet, S., El Harfi, A. Classifications, properties, recent synthesis and applications of azo dyes Heliyon, 6 (1), art. e03271 (2020).
C.18. Ammonium-azonium tautomerism in some N,N-dialkylaminoazodyes: Part 2 - Compounds containing more than two protonation sites. S.Stoyanov, L.Antonov, T.Stoyanova & V.Petrova; <i>Dyes & Pigments</i> , 32 , 171-185 (1996)		
767.	1.	Saysell, C.G., Murray, J.M., Wilmot, C.M., Brown, D.E., Dooley, D.M., Phillips, S.E.V., McPherson, M.J., Knowles, P.F. Investigation into the mechanism of $\lambda(\text{max})$ shifts and their dependence on pH for the 2-hydrazinopyridine derivatives of two copper amine oxidases Journal of Molecular Catalysis - B Enzymatic, 8 (1-3), 17-25 (2000).
768.	2.	Яценко, А.В.

		Влияние кристаллической упаковки на электронную и пространственную структуру молекул органических красителей Дисертация для дхн, МГУ (2003).
769.	3.	Hamada, K. Dyes, Dyeing and Functional Finishing Sen'i Gakkaishi, 60 (6), (2004).
770.	4.	Wong, L.S., Bradley, M. Immobilisation and assessment of aniline dyes for non-fluorescent pH sensing applications Tetrahedron Letters, 46 (34), 5731-5734 (2005).
771.	5.	Park, J. Studies on Inclusion Complexes of Cyclodextrin and Dyes DPhil Thesis, Georgia Institute of Technology
772.	6.	Liu, Y.L. Electrical Switching and Memory Effects in Electroactive Polymers Containing Electron-Donor and -Acceptor Moieties PhD Thesis, National University of Singapore (2011).
773.	7.	Samanta, S., Babalhavaej, A., Dong, M.-X., Woolley, G.A. Photoswitching of ortho-substituted azonium ions by red light in whole blood Angewandte Chemie - International Edition, 52 (52), 14127-14130 (2013).
774.	8.	Babür, B., Ertan, N. Part 1: Synthesis and visible absorption spectra of some new monoazo dyes derived from ethyl 2-amino-4-(4'-substitutedphenyl)thiophenes Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 131, 319-328 (2014).
775.	9.	Aksungur, T., Arslan, Ö., Seferoğlu, N., Seferoğlu, Z. Photophysical and theoretical studies on newly synthesized N,N-diphenylamine based azo dye Journal of Molecular Structure, 1099, art. 21665, 543-550 (2015).
776.	10.	Dong, M., Babalhavaej, A., Hansen, M.J., Kálmán, L., Woolley, G.A. Red, far-red, and near infrared photoswitches based on azonium ions Chemical Communications, 51 (65), 12981-12984 (2015).
777.	11.	Weston, C.E., Richardson, R.D., Fuchter, M.J. Photoswitchable basicity through the use of azoheteroarenes Chemical Communications, 52 (24), 4521-4524 (2016).
778.	12.	Weston, C.E. Novel azoheteroaryl photoswitches and their applications Dissertation, Imperial College London, UK (2016).
779.	13.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
780.	14.	Martínez-López, D., Babalhavaej, A., Sampedro, D., Andrew Woolley, G. Synthesis and characterization of bis(4-amino-2-bromo-6-methoxy)azobenzene derivatives Beilstein Journal of Organic Chemistry, 15, 3000-3008 (2019).
C.19. Resolution of overlapping bands - an idea for quantitative analysis of undefined mixtures. L.Antonov & D.Nedeltcheva; <i>Analytical Letters</i> , 29 , 2055-2069 (1996)		
781.	1.	McKelvy, M.L., Britt, T.R., Davis, B.L., Gillie, J.K., Graves, F.B., Lentz, L.A. Infrared Spectroscopy Analytical Chemistry, 70 (12), 119R-177R (1998).
782.	2.	Baiulescu, G.E., Stefan, R.-I., Aboul-Enein, H.Y. Quality and Reliability in Analytical Chemistry, Analytical Chemistry Series, CRC Press (2000).
783.	3.	McMillan, N.D., O'Rourke, B., Riedel, S.M., O'Neill, M., O'Neill, A.E., Bertho, A.C., Doyle, G., Beverley, K., Hammond, J., Augousti, A., Mason, J., Skelly, D.O., O'Neill, A.T., Boller, D., Cave, S.J. A new democratic phase coherent data-scatter technique for calibration, measurement,

		fingerprinting and rapid archival identification of ultraviolet-visible multi-component food spectra <i>Analytica Chimica Acta</i> , 511 (1), 119-135 (2004).
784.	4.	Gao, F., Zhang, H., Guo, L., Garland, M. Application of the BTEM family of algorithms to reconstruct individual UV-Vis spectra from multi-component mixtures <i>Chemometrics and Intelligent Laboratory Systems</i> , 95 (1), 94-100 (2009).
785.	5.	Šucha, V., Czímerová, A., Bujdák, J. Surface properties of illite-smectite minerals as detected by interactions with Rhodamine 6G dye <i>Clays and Clay Minerals</i> , 57 (3), 361-370 (2009).
786.	6.	Osacký, M., Šucha, V., Czímerová, A., Madejová, J. Reaction of smectites with iron in a nitrogen atmosphere at 75°C <i>Applied Clay Science</i> , 50 (2), 237-244 (2010).
787.	7.	Komadel, P., Madejová, J. Identification and Characterization of Interstratified Clay Minerals with Spectroscopic and other Classical Methods <i>Interstratified Clay Minerals: Origin, Characterization and Geochemical Significance</i> , AIPEA Educational Series, 89-114 (2013).
788.	8.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study <i>Structural Chemistry</i> , 25 (4), 1257-1270 (2014).
789.	9.	Jędrzejczak, M., Wojciechowski, K. A numerical method of analyzing the composition of colored wastewater from dyeing plant <i>International Journal of Environmental Science and Technology</i> , doi: 10.1007/s13762-021-03208-2 (2021).
C.20. Application of the first derivative spectra method for investigation of the complexation of some aza-15-crown-5 containing chromoionophores with Sr ²⁺ . N.Mateeva, L.Antonov, M.Mitewa & S.Miteva; <i>Talanta</i> , 43 , 275-279 (1996)		
790.	1.	Bontchev, P.R., Gencheva, G., Gochev, G., Simova, S., Dimova, V. Copper(II) complexes of a new cynamyl derivative of the antibiotic rifampicin <i>Journal of Inorganic Biochemistry</i> , 65 (3), 175-182 (1997).
791.	2.	Boila-Göckel, A., Junek, H. Spacer-Chromoionophores - Polymethine Dye Substituted Aza-Crown Ethers with Increased Complexation Ability <i>Advanced Synthesis and Catalysis</i> , 341 (1), 20-28 (1999).
792.	3.	Marczenko, Z., Balcerzak, M. Chapter 3. Spectrophotometric methods <i>Analytical Spectroscopy Library</i> , 10 (C), 39-52 (2000).
793.	4.	Михайлюк, И.К. Разработка и применение методов производной спектроскопии высокого порядка для выявления тонкой структуры оптических спектров фотосинтетических пигмент-белковых комплексов Диссертация (кфмн), Московский государственный университет (2003).
794.	5.	Abdollahi, H., Zeinali, S. Spectrophotometric study of complexation equilibria with H-point standard addition and H-point curve isolation methods <i>Talanta</i> , 62 (1), 151-163 (2004).
795.	6.	Bosch Ojeda, C., Sanchez Rojas, F. Recent developments in derivative ultraviolet/visible absorption spectrophotometry <i>Analytica Chimica Acta</i> , 518 (1-2), 1-24 (2004).
796.	7.	Sazonov, P.K., Stolyarenko, V.Yu., Artamkina, G.A., Beletskaya, I.P. N,N'-Bis(acylvinylated) diaza-18-crown-6 ether as a lanthanide-selective macrocyclic complex-forming agent

		Russian Chemical Bulletin, 54 (1), 159-164 (2005).
C.21. Thion-disulfide interchange of some heterocyclic tautomeric thiones and their symmetrical disulfides. S.Stoyanov, T.Stoyanova, <u>L.Antonov</u> , P.Karagiannidis & P.Akrivos; <i>Monatshefte fuer Chemie</i> , 127 , 495-504 (1996)		
797.	1.	Rajalingam, U., Dean, P.A.W., Jenkins, H.A. Solution multinuclear (^{31}P / ^{111}Cd ^{77}Se) magnetic resonance studies of cadmium complexes of heterocyclic aromatic thiones and the structure of [tetrakis(2(1H)-pyridinethione)cadmium] nitrate, $[\text{Cd}(\text{C}_5\text{H}_5\text{NS})_4](\text{NO}_3)$ Canadian Journal of Chemistry, 78 (5), 590-597 (2000).
798.	2.	El-Kemary, M.A., El-Khouly, M.E., Ito, O. Photophysical characteristics of two 4,6-disubstituted-3-cyanopyridin-2(1H)-thiones in various solvents Journal of Photochemistry and Photobiology A: Chemistry, 137 (2-3), 105-113 (2000).
799.	3.	Azzouzi, F., Lyazidi, S.A., Haddad, M., El Messaoudi, M., Hasnaoui, A., Ben Larbi, N. Ultraviolet-visible spectroscopic study of 3,5-dithio-2,7-dimethyl-[1,2,4]- triazepine: Qualitative analysis of tautomeric behaviour Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 62 (4-5), 875-879 (2005).
800.	4.	Andrews, P.C., Deacon, G.B., Junk, P.C., Spiccia, N.F. Exploration of solvent free and/or microwave assisted syntheses of bismuth(III) thiolates Green Chemistry, 9 (12), 1319-1327 (2007).
801.	5.	Dilgin, Y., Cansiz, A., Çetin, A., Kutulay, P., Oral, A., Yilmaz, S. Electrochemical behaviour of 5-(furan-2-yl)-4-(p-tolyl)-2,4-dihydro-1,2,4- triazole-3-thione by using glassy carbon electrode Asian Journal of Chemistry, 19 (4), 3221-3227 (2007).
802.	6.	Dennehy, M., Quinzani, O.V., Mandolesi, S.D., Güida, J.A., Echeverría, G.A., Piro, O.E. Synthesis and spectroscopic characterization of two new thiosaccharinate salts. Molecular structure of bis(triphenylphosphine)iminium thiosaccharinate, PNP(tsac) Monatshefte fur Chemie, 138 (7), 669-675 (2007).
803.	7.	Dennehy, M., Tellería, G.P., Tarulli, S.H., Quinzani, O.V., Mandolesi, S.D., Guida, J.A., Echeverría, G.A., Piro, O.E., Castellano, E.E. Synthesis and structural characterization of two new polynuclear metal thiosaccharinates: Hexakis(thiosaccharinato)hexasilver(II) and tetrakis(thiosaccharinato)tetracopper(II) Inorganica Chimica Acta, 360 (10), 3169-3181 (2007).
804.	8.	Kalinowski, D.S., Sharpe, P.C., Bernhardt, P.V., Richardson, D.R. Design, synthesis, and characterization of new iron chelators with anti-proliferative activity: Structure-activity relationships of novel thiohydrazone analogues Journal of Medicinal Chemistry, 50 (24), 6212-6225 (2007).
805.	9.	Freeman, F., Po, H.N., Ho, T.S., Wang, X. Electrochemical oxidation of 2-pyrimidinethiols and theoretical study of their dimers, disulfides, sulfenyl radicals, and tautomers Journal of Physical Chemistry A, 112 (7), 1643-1655 (2008).
806.	10.	Kiliç, H. Ultraviolet-visible study of tautomeric behavior of some carbonyl and thiocarbonyl pyrimidine derivatives: Experimental evidence of enolization and thioketonization Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 71 (1), 175-185 (2008).
807.	11.	Dennehy, M., Tellería, G.P., Quinzani, O.V., Echeverría, G.A., Piro, O.E., Castellano, E.E. Four novel mononuclear and polynuclear Cu(II) thiosaccharinates with triphenylphosphane and bis(diphenylphosphino)methane. Synthesis and structural study of $\text{Cu}_4(\text{tsac})_4(\text{PPh}_3)_3$, $\text{Cu}(\text{tsac})(\text{PPh}_3)_2$, $\text{Cu}_4(\text{tsac})_4(\text{dppm})_2$, and $\text{Cu}_2(\text{tsac})_2(\text{dppm})_2$ Inorganica Chimica Acta, 362 (8), 2900-2908 (2009).
808.	12.	Tarulli, S.H., Quinzani, O.V., Mandolesi, S.D., Guida, J.A., Echeverría, G.A., Piro, O.E., Castellano, E.E. Synthesis and structural analysis of new palladium(II) thiosaccharinates with triphenylphosphane or diphosphanes

		Zeitschrift für Anorganische und Allgemeine Chemie, 635 (11), 1604-1612 (2009).
809.	13.	Tschetschetkin, A. STM- und STS-Untersuchungen an Molekülen auf Metalloberflächen Dissertation, Universität Ulm (2009).
810.	14.	Bergman, J., Pettersson, B., Hasimbegovic, V., Svensson, P.H. Thionations using a P4S10-pyridine complex in solvents such as acetonitrile and dimethyl sulfone Journal of Organic Chemistry, 76 (6), 1546-1553 (2011).
811.	15.	Hassan, N., Holze, R. Surface enhanced Raman spectroscopy of self-assembled monolayers of 2-mercaptopyridine on a gold electrode Russian Journal of Electrochemistry, 48 (4), 401-411 (2012).
812.	16.	Ferullo, R.M., Granados, A., Lanterna, A., Güida, J.A., Piro, O.E., Castellano, E.E., Dennehy, M. Thiosaccharine disulfide: Synthesis, crystal structure, spectroscopic characterization and theoretical study Journal of Molecular Structure, 1032, 48-55 (2013).
813.	17.	Bron, M., Holze, R. Structural studies of self-assembled monolayers of 4-mercaptopyridine on gold electrodes with surface-enhanced Raman spectroscopy Journal of Solid State Electrochemistry, 19 (9), 2673-2682 (2015).
814.	18.	Chen, J., Jiang, S., Gao, Y., Sun, F. Reducing volumetric shrinkage of photopolymerizable materials using reversible disulfide-bond reactions Journal of Materials Science, 53 (23), 16169-16181 (2018).
815.	19.	Pinky, T., Rahman, M.M., Ghosh, S., Azam, K.A., Mia, M.J., Alam, M.M., Tocher, D.A., Richmond, M.G., Kabir, S.E. Activation of thiosaccharin at a polynuclear osmium cluster Journal of Organometallic Chemistry, 880, 223-231 (2019).
816.	20.	Mia, M.J., Reza, M.S., Bhoomik, N.C., Ghosh, S., Nesterov, V.N., Richmond, M.G., Kabir, S.E. Reactions of $[Ru^{III}(CO)_{12}]$ with thiosaccharin: Synthesis and structure of di-, tri-, tetra- and penta-ruthenium complexes containing a thiosaccharinate ligand(s) Journal of Organometallic Chemistry, 906, art. 121048 (2020).
817.	21.	Zhang, M., Jiang, S., Gao, Y., Nie, J., Sun, F. UV-Nanoimprinting Lithography Photoresists with No Photoinitiator and Low Polymerization Shrinkage Industrial and Engineering Chemistry Research, 59 (16), 7564-7574 (2020).
C.22. Spectral properties and molecular structure of 4-aryl-3-cyano-1,1-diphenyl-2-azabutadienes. V.Dryanska, P.Denkova, L.Shishkova, S.Stoyanov, <u>L.Antonov</u> & S.Spasov; <i>Spectroscopy Letters</i> , 26 , 1067-1077 (1996)		
C.23. Fourth derivative spectroscopy - a critical view. <u>L.Antonov</u> ; <i>Analytica Chimica Acta</i> , 349 , 295-301 (1997)		
818.	1.	Howell, J.A., Sutton, R.E. Ultraviolet and absorption light spectrometry Analytical Chemistry, 70 (12), 107R-118R (1998).
819.	2.	Chisvert, A., Salvador, A., Pascual-Martí, M.C. Simultaneous determination of oxybenzone and 2-ethylhexyl 4-methoxycinnamate in sunscreen formulations by flow injection-isodifferential derivative ultraviolet spectrometry Analytica Chimica Acta, 428 (2), 183-190 (2001).
820.	3.	Mikhailyuk, I.K., Razzhivin, A.P. Method for decomposing spectra into bands using the initial spectrum and a set of its derivatives Biophysics, 48 (3), 383-388 (2003).
821.	4.	Михайлюк, И.К. Разработка и применение методов производной спектроскопии высокого порядка для выявления тонкой структуры оптических спектров фотосинтетических пигмент-

		белковых комплексов Диссертация (кфмн), Московский государственный университет (2003).
822.	5.	Bosch Ojeda, C., Sanchez Rojas, F. Recent developments in derivative ultraviolet/visible absorption spectrophotometry Analytica Chimica Acta, 518 (1-2), 1-24 (2004).
823.	6.	Moline, M.A., Blackwell, S.M., Chant, R., Oliver, M.J., Bergmann, T., Glenn, S., Schofield, O.M.E. Episodic physical forcing and the structure of phytoplankton communities in the coastal waters of New Jersey Journal of Geophysical Research C: Oceans, 109 (12), 1-17 (2004).
824.	7.	Gottschlich, K. Einarbeitung und Validierung der Methode zur Bestimmung von Molkenproteinen in Speisequark mittels eines neuen Spektrometers Das Thüringer Ministerium für Landwirtschaft, Naturschutz und Umwelt, Themenblatt-Nr.: 50.14.262/2004
825.	8.	Gao, H.-W., Zhang, S.-Y., Wang, H.-Y., Xia, S.-Q., Zhang, Y.-L. Application of light-absorption ratio variation approach as an optimum spectrophotometry to determination of Mn(II) in ng ml ⁻¹ level using a competitive replacement complexation Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 61 (3), 447-454 (2005).
826.	9.	Mikhailyuk, I.K., Lokstein, H., Razjivin, A.P. A method of spectral subband decomposition by simultaneous fitting the initial spectrum and a set of its derivatives Journal of Biochemical and Biophysical Methods, 63 (1), 10-23 (2005).
827.	10.	Yeow, Y.L., Leong, Y.K. A general computational method for converting normal spectra into derivative spectra Applied Spectroscopy, 59 (5), 584-592 (2005).
828.	11.	Gao, H.-W. Determination of trace amounts of cobalt using 1-(5-bromo-2-pyridylazo)-2-naphthol-6-sulfonic Acid-Cu(II)-Co(II) competitive replacement complexation Journal of AOAC International, 88 (5), 1433-1439 (2005).
829.	12.	Yeow, Y.L., Azali, S., Ow, S.Y., Wong, M.C.L., Leong, Y.-K. Evaluating the third and fourth derivatives of spectral data Talanta, 68 (2), 156-164 (2005).
830.	13.	Gottschlich, K. Untersuchungen zur derivativspektroskopischen Bestimmung von Molkenproteinen in Speisequark mit dem UV-VIS-Spektrometers Cary 100 Untersuchungsbericht 2004/2005, Landwirtschaft und Landschaftspflege in Thüringen, 167-174 (2006).
831.	14.	Anderssen, R.S., Hegland, M. Derivative spectroscopy an enhanced role for numerical differentiation Journal of Integral Equations and Applications, 22 (3), 355-367 (2010).
832.	15.	Jihad, R.M. Simultaneous determination of tryptophan and tyrosine in binary mixture by zero-crossing second derivative spectrophotometry Journal of University of Anbar for pure science, 4 (1), 99-104 (2010).
833.	16.	Darak, V., Karadi, A.B., Arshad, M.D., Appal Raju, S. Derivative spectroscopic determination of mesalamine in tablet dosage forms Pharma Science Monitor, 2 (4), 31-35 (2011).
834.	17.	Zhdanova, N.G., Shirshin, E.A., Maksimov, E.G., Panchishin, I.M., Saletsky, A.M., Fadeev, V.V. Tyrosine fluorescence probing of the surfactant-induced conformational changes of albumin Photochemical and Photobiological Sciences, 14 (5), 897-908 (2015).
835.	18.	Wojciechowski, K., Jedrzejczak, M. Photochemical Degradation of Disazo Dyes, R-Salt Derivatives, on Dyed Cotton

		Journal of Natural Fibers, 14 (3), 346-356 (2017).
C.24. Spectrophotometric investigation of on the complexation between chromo- and fluoroionophores containing aza-15-crown-5 moiety and alkaline and alkaline-earth metal ions. M.Mitewa, N.Mateeva & L.Antonov; <i>Quimica Analitica</i> , 16 , S153-S162 (1997)		
836.	1.	Mashraqui, S.H., Mistry, H., Sundaram, S. π -aryl/heteroaryl conjugated coumarin-thiazoles: Synthesis, optical spectral and nonlinear optic properties Journal of Heterocyclic Chemistry, 43 (4), 917-923 (2006).
837.	2.	Petinova, A., Metsov, S., Petkov, I., Stoyanov, S. Photophysical behaviours of some 2-styrylindolium dyes in aqueous solutions and in the presence of cyclodextrins Journal of Inclusion Phenomena and Macrocyclic Chemistry, 59 (1-2), 183-190 (2007).
838.	3.	Petkov, I., Petinova, A., Stoyanov, S.S., Metsov, S., Stoyanov, S.I. Spectral properties and supramolecular inclusion complex formation between 2-styrylbenzothiazolium dye and cyclodextrins Journal of Inclusion Phenomena and Macrocyclic Chemistry, 60 (3-4), 329-338 (2008).
839.	4.	Angelova, S. Complexation of IA and IIA group metal ions by N-phenylaza-15-crown-5 containing Schiff bases: A DFT study Inorganica Chimica Acta, 487, 316-321 (2019).
C.25. Aggregation and tautomeric properties of C.I. Acid Red 138. T.Iijima, E.Jojima, L.Antonov, S.Stoyanov & T.Stoyanova; <i>Dyes & Pigments</i> , 37 , 81-92 (1998)		
840.	1.	Parmar, C.K., Rumbles, G., Winscom, C.J. Aggregation of azamethine dyes on hydrated glass surfaces: An evanescent wave-induced fluorescence study Physical Chemistry Chemical Physics, 4 (10), 1766-1775 (2002).
841.	2.	Murakami, K. Thermodynamic and kinetic aspects of self-association of dyes in aqueous solution Dyes and Pigments, 53 (1), 31-43 (2002).
842.	3.	Hamada, K. Dyes, Dyeing and Functional Finishing Sen'i Gakkaishi, 60 (6), (2004).
843.	4.	Ghasemi, J., Niazi, A., Westman, G., Kubista, M. Thermodynamic characterization of the dimerization equilibrium of an asymmetric dye by spectral titration and chemometric analysis Talanta, 62 (4), 835-841 (2004).
844.	5.	Abbott, L.C., Batchelor, S.N., Oakes, J., Smith, J.R.L., Moore, J.N. Spectroscopic studies of the intermolecular interactions of a bis-azo dye, direct blue 1, on di- and trimerization in aqueous solution and in cellulose Journal of Physical Chemistry B, 108 (36), 13726-13735 (2004).
845.	6.	Oakes, J., Dixon, S. Physical interactions of dyes in solution - Influence of dye structure on aggregation and binding to surfactants/polymers Review of Progress in Coloration and Related Topics, 34, 110-128 (2004).
846.	7.	Chirita, C.N., Congdon, E.E., Yin, H., Kuret, J. Triggers of full-length tau aggregation: A role for partially folded intermediates Biochemistry, 44 (15), 5862-5872 (2005).
847.	8.	Panea, I., Pelea, M., Silberg, I.A. Azocoupling products. V. Electronic spectroscopy study of two azocoupling products of 1-(4-hydroxy-6-methyl-pyrimidin-2-yl)-3-methyl-pyrazolin-5-one Dyes and Pigments, 68 (2-3), 165-176 (2006).
848.	9.	Panea, I., Pelea, M., Silberg, I.A. Azocoupling products VI.11Part V, see reference [32]. The sensitivity to external factors of the UV-vis absorption spectra of the azocoupling product between 1-(4-hydroxy-6-methyl-pyrimidin-2-yl)-3-methylpyrazolin-5-one and 4-(N,N-dimethyl) aminobenzenediazonium salt

		Dyes and Pigments, 74 (1), 113-122 (2006).
849.	10.	Odabaşoğlu, M., Albayrak, C., Özkanca, R., Aykan, F.Z., Lonecke, P. Some polyhydroxy azo-azomethine derivatives of salicylaldehyde: Synthesis, characterization, spectroscopic, molecular structure and antimicrobial activity studies Journal of Molecular Structure, 840 (1-3), 71-89 (2007).
850.	11.	Kurtoglu, N., Senol, D. Synthesis, spectral characterization and application of some thio-azo dyes Asian Journal of Chemistry, 20 (3), 1986-1998 (2008).
851.	12.	Panea, I., Pelea, M., Coroş, M., Silaghi-Dumitrescu, L., Bâldea, I. The comparative study of the influences of the external factors on the UV-VIS absorption spectra of some potentially tautomeric azocoupling products Studia Universitatis Babes-Bolyai Chemia, 15-31 (2009).
852.	13.	Hamidian, K., Irandoust, M., Rafiee, E., Joshaghani, M. Synthesis, characterization, and tautomeric properties of some azo-azomethine compounds Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, 67 (2), 159-164 (2012).
853.	14.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study Structural Chemistry, 25 (4), 1257-1270 (2014).
854.	15.	Özdemir, N. Quantum chemical study of tautomerism in 2-[(4-phenylthiazol-2-yl)hydrazonomethyl]phenol Computational and Theoretical Chemistry, 1086, 12-17 (2016).
855.	16.	Wojciechowski, K., Szuster, L. [Azo-Hyd] Tautomerism and Structure of Selected Metal Complex Dyes AM1 and ZINDO/1 Methods Computational Chemistry, 4, 97-118 (2016).
856.	17.	Feng, J., Lan, S., Yao, C., Xiong, Y., Tian, S. Electro-generation of NaOH-H ₂ SO ₄ and simultaneous degradation of Acid orange 7 from Na ₂ SO ₄ -containing wastewater by Ti/IrO ₂ electrodes Journal of Chemical Technology and Biotechnology, 92 (4), 827-833 (2017).
857.	18.	Kovalchuk, A.I., Kobzar, Y.L., Tkachenko, I.M., Tolstov, A.L., Shekera, O.V., Shevchenko, V.V. Synthesis and optical properties of new isomeric azo-containing bis(2-hydroxybenzaldehydes) with tetrafluorobenzene units Mendeleev Communications, 27 (6), 599-601 (2017).
858.	19.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
859.	20.	Porobić, S. J. Sinteza, struktura i svojstva novih azo boja na bazi 6-hidroksi -4-metil-2-okso-1,2-dihidropiridin-3-karboksamida Dissertation, Univerzitet u Beogradu, Serbia (2020)
C.26. Theoretical investigations on the tautomerism of 1-Phenylazo-4-naphthol and its isomers. L.Antonov, S.Kawauchi, M.Satoh & J.Komiyama; <i>Dyes & Pigments</i> , 38 , 157-164 (1998)		
860.	1.	Murray, A.W. Organic Reaction Mechanisms 1998, p. 601, Wiley (1998).
861.	2.	Wojciechowski, K., Szadowski, J. Effect of the sulphonic group position on the properties of monoazo dyes Dyes and Pigments, 44 (2), 137-147 (2000).
862.	3.	Tauro, S., Coutinho, E. Azo, hydrazone and other tautomers of the azo dye 7-amino-4-hydroxy-3-[(4-methoxy-2-sulphophenyl)azo]-2-naphthalenesulfonic acid: A PM3 study Journal of Molecular Structure: THEOCHEM, 532, 23-29 (2000).

863.	4.	Stadlbauer, W., Hojas, G. Synthesis of 4-azido-3-diazo-3H-pyrazolo[3,4-b]quinoline from 3-amino-4-hydrazino-1H-pyrazolo[3,4-b]quinoline Journal of the Chemical Society, Perkin Transactions 1, (18), 3085-3087 (2000).
864.	5.	Abraham, M.H., Amin, M., Zissimos, A.M. The lipophilicity of Sudan I and its tautomeric forms Physical Chemistry Chemical Physics, 4 (23), 5748-5752 (2002).
865.	6.	Shore, J. Colorants and Auxiliaries, vol.1, SDC, p. 229 (2002).
866.	7.	Vineetha, C.P. Studies on some new Metal-Hydrazone complexes and their zeolite encapsulated analogues PhD Thesis, Cochin University of Science and Technology (2002).
867.	8.	Hihara, T., Okada, Y., Morita, Z. Azo-hydrazone tautomerism of phenylazonaphthol sulfonates and their analysis using the semiempirical molecular orbital PM5 method Dyes and Pigments, 59 (1), 25-41 (2003).
868.	9.	Hamada, K. Dyes, Dyeing and Functional Finishing Sen'i Gakkaishi, 60 (6), (2004).
869.	10.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
870.	11.	Liu, X.-G., Feng, Y.-Q., Liang, Z.-P., Wang, W. 1-[(4-Formylphenyl)hydrazono]naphthalen-2(1H)-one-2-naphthol (1/1) Acta Crystallographica Section E: Structure Reports Online, (2005).
871.	12.	Turgut, G., Odabaşoğlu, M. Preparation and characterization of chromophore group containing cyclotriphosphazenes: V. Spectroscopic investigation of some hexakis(p-phenylazo-α-naphthoxy)cyclotriphosphazenes Dyes and Pigments, 70 (2), 117-125 (2006).
872.	13.	Biswas, A.N., Das, P., Agarwalla, U.S., Saha, A., Bandyopadhyay, P. (E)-4-[[2-(Methyl-sulfan-yl)phenyl]diaz-en-yl]phenol Acta Crystallographica Section E: Structure Reports Online, 63 (7), o3114 (2007).
873.	14.	Honson, N.S., Johnson, R.L., Huang, W., Inglese, J., Austin, C.P., Kuret, J. Differentiating Alzheimer disease-associated aggregates with small molecules Neurobiology of Disease, 28 (3), 251-260 (2007).
874.	15.	Allegretti, P.E., de las Mercedes Schiavoni, M., Castro, E.A., Furlong, J.J.P. Tautomeric Equilibria Studies by Mass Spectrometry World Journal of Chemistry 2 (2), 25-62 (2007).
875.	16.	Kuret, J. Detection and reduction of neurofibrillary lesions Protein Misfolding in Neurodegenerative Diseases: Mechanisms and Therapeutic Strategies (R.D.E.Sewell, editor), CRC Press (2007).
876.	17.	Hong, Y., Xiao, J.-Y., Chen, S.-P., Wang, W.-L., Huang, K.-L. Synthesis of substituted aromatic aldehydes bis-Schiff bases and their spectrum properties Chinese Journal of Organic Chemistry, 28 (8), 1404-1409 (2008).
877.	18.	Furlong, J.J.P., Schiavoni, M.M., Castro, E.A., Allegretti, P.E. Mass spectrometry as a tool for studying tautomerism Russian Journal of Organic Chemistry, 44 (12), 1725-1736 (2008).
878.	19.	Nedeltcheva, D., Kurteva, V., Damyanova, B., Popov, S. Gas - phase tautomerism in 1 - phenylazonaphthalene - 4 - ol: verification of the responses of individual tautomers Rapid Communications in Mass Spectrometry, 23 (11), 1724-1734 (2009).
879.	20.	Seferoglu, Z., Aktan, E., Ertan, N.

		Spectral characterisation and computational studies of some novel phenylazoindol-2-one dyes Coloration Technology, 125, 342–351 (2009).
880.	21.	Skierawska, A. Selektywne N-funkcjonalizowane pochodne 1,4,7,10-tetraazacyklododekanu. Kluczowe substancje w syntezie kompleksonów Zeszyty Naukowe Politechniki Gdańskiej. Chemia, 63 (614), 3-120 (2009).
881.	22.	Nedeltcheva, D., Kurteva, V., Topalova, I. Gas-phase tautomerism in hydroxy azo dyes-from 4-phenylazo-1-phenol to 4-phenylazo-anthracen-1-ol Rapid Communications in Mass Spectrometry, 24 (6), 714-720 (2010).
882.	23.	Wang, Q., Cai, L., Gao, F., Zhou, Q., Zhan, F., Wang, Q. Photochromism of Schiff base compounds derived from N,N'-bis(2-aminophenyl) isophthalamide: Structure and photosensitivity Journal of Molecular Structure, 977 (1-3), 274-278 (2010).
883.	24.	Kenny, P.W., Taylor, P.J. The Prediction of Tautomer Preference in Aqueous Solution OpenEye Scientific Software (2010).
884.	25.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
885.	26.	Sujamol, M.S., Sindhu, Y., Athira, C.J., Mohanan, K. Synthesis, characterization, thermal decomposition studies and dyeing properties of some novel transition metal complexes of an azo derivative formed from 2-aminothiophene Russian Journal of Inorganic Chemistry, 56 (8), 1276-1283 (2011).
886.	27.	Aktan, E., Babür, B., Seferoğlu, Z., Hökelek, T., Şahin, E. Synthesis and structure of a novel hetarylazoindole dye studied by X-ray diffraction, FT-IR, FT-Raman, UV-vis, NMR spectra and DFT calculations Journal of Molecular Structure, 1002 (1-3), 113-120 (2011).
887.	28.	Dincer, S. Studies of tautomerism in the azonaphthol derivatives of benzimidazoles Bulgarian Chemical Communications, 44 (1), 70-73 (2012).
888.	29.	Wang, Q., Qiu, W., Wu, J., Zhang, M. Schiff base compounds derived from (R)-3-phenyl-2-phthalimidopropionic acid: Photochromism, solvatochromism, and fluorescence Structural Chemistry, 24 (1), 295-301 (2013).
889.	30.	Mansouri, L., Zouchoune, B. Substitution effects and electronic properties of the azo dye (1-phenylazo-2-naphthol) species: A TD-DFT electronic spectra investigation Canadian Journal of Chemistry, 93 (5), 509-517 (2014).
890.	31.	Ferreira, G.R. Estudo espectroscópico do equilíbrio tautomérico em azocompostos derivados do 1-fenil-azo-2-naftol e seus compostos de coordenação Doutorado em Química, Universidade Federal de Juiz de Fora (2014).
891.	32.	El-Sonbati, A.Z., El-Bindary, A.A., Mohamed, G.G., Morgan, S.M., Hassan, W.M.I., Elkholy, A.K. Geometrical structures, thermal properties and antimicrobial activity studies of azodye complexes Journal of Molecular Liquids, 218, 16-34 (2016).
892.	33.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
893.	34.	Wojciechowski, K., Jedrzejczak, M. Photochemical Degradation of Disazo Dyes, R-Salt Derivatives, on Dyed Cotton

		Journal of Natural Fibers, 14 (3), 346-356 (2017).
894.	35.	Neuerová, Z., Lyčka, A. 15N, 13C and 1H NMR study of tautomerism in 2-(phenyldiazenyl-4-substituted naphthalen-1-ols. Influence of substitution in passive components on azo-hydrazo tautomerism Dyes and Pigments, 188, art. no. 109149 (2021) .
C.27. <i>Ab Initio</i> modeling the solvent influence on the azo-hydrazone tautomerism. L.Antonov, S.Kawauchi, M.Satoh & J.Komiyama; <i>Dyes & Pigments</i> , 40 , 163-170 (1999)		
895.	1.	Murray, A.W. Organic Reaction Mechanisms 1999, p. 503, Wiley (1999).
896.	2.	Tauro, S., Coutinho, E. Azo, hydrazone and other tautomers of the azo dye 7-amino-4-hydroxy-3-[(4-methoxy-2-sulphophenyl)azo]-2-naphthalenesulfonic acid: A PM3 study Journal of Molecular Structure: THEOCHEM, 532, 23-29 (2000).
897.	3.	El-Shafei, A. Semi-Empirical Molecular Orbital Methods and Ab Initio Calculations in Dye Chemistry: Computational Studies Towards the Design and Synthesis of Organic Pigments Dissertation, North Caroline State University (2002).
898.	4.	Shore, J. Colorants and Auxiliaries, vol.1, SDC, p. 229 (2002).
899.	5.	Hihara, T., Okada, Y., Morita, Z. Azo-hydrazone tautomerism of phenylazonaphthol sulfonates and their analysis using the semiempirical molecular orbital PM5 method Dyes and Pigments, 59 (1), 25-41 (2003).
900.	6.	Hamada, K. Dyes, Dyeing and Functional Finishing Sen'i Gakkaishi, 60 (6), (2004).
901.	7.	Téllez S, C.A., De Souza, V., Izolani, A.O. Structural analysis and Fourier transform infrared and Raman spectra of dibutoxyphosphoryl benzylisothiurea Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 60 (11), 2587-2599 (2004).
902.	8.	Tunçel, M., Serin, S. Synthesis and characterization of copper(II), nickel(II) and cobalt(II) complexes with azo-linked Schiff base ligands Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry, 35 (3), 203-212 (2005).
903.	9.	Liu, X.-G., Feng, Y.-Q., Liang, Z.-P., Wang, W. 1-[(4-Formylphenyl)hydrazono]naphthalen-2(1H)-one-2-naphthol (1/1) Acta Crystallographica Section E: Structure Reports Online, 61 (11), o3857-o3858 (2005) .
904.	10.	Azzouzi, F., Lyazidi, S.A., Haddad, M., El Messaoudi, M., Hasnaoui, A., Ben Larbi, N. Ultraviolet-visible spectroscopic study of 3,5-dithio-2,7-dimethyl-[1,2,4]- triazepine: Qualitative analysis of tautomeric behaviour Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 62 (4-5), 875-879 (2005).
905.	11.	Habibi, M.H., Hassanzadeh, A., Zeini-Isfahani, A. Spectroscopic studies of Solophenyl red 3BL polyazo dye tautomerism in different solvents using UV-visible, 1H NMR and steady-state fluorescence techniques Dyes and Pigments, 69 (1-2), 93-101 (2006).
906.	12.	Panea, I., Pelea, M., Silberg, I.A. Azocoupling products. V. Electronic spectroscopy study of two azocoupling products of 1-(4-hydroxy-6-methyl-pyrimidin-2-yl) -3-methyl-pyrazolin-5-one Dyes and Pigments, 68 (2-3), 165-176 (2006).
907.	13.	Nagy, P.I., Fabian, W.M.F. Theoretical study of the enol imine \leftrightarrow enamionone tautomeric equilibrium in organic solvents

		Journal of Physical Chemistry B, 110 (49), 25026-25032 (2006).
908.	14.	Wojciechowski, K., Szymczak, A. The research of the azo-hydrazone equilibrium by means of AM1 method based on the example of an azo dye - the Schäffer salt derivative Dyes and Pigments, 75 (1), 45-51 (2007).
909.	15.	Biswas, A.N., Das, P., Agarwalla, U.S., Saha, A., Bandyopadhyay, P. (E)-4-[[2-(Methyl-sulfan-yl)phenyl]diazen-yl]phenol Acta Crystallographica Section E: Structure Reports Online, 63 (7), o3114 (2007).
910.	16.	Biswas, A.N., Das, P., Neogi, D.N., Bhawmick, R., Bandyopadhyay, P. 4,4'-Bis[2-(benzyl-sulfan-yl)phenyl-hydra-zono]-2, 2'-binaphthalene-1,1' (4H,4' H)-dione Acta Crystallographica Section E: Structure Reports Online, 63 (12), o4554 (2007).
911.	17.	Allegretti, P.E., de las Mercedes Schiavoni, M., Castro, E.A., Furlong, J.J.P. Tautomeric Equilibria Studies by Mass Spectrometry World Journal of Chemistry 2 (2), 25-62 (2007).
912.	18.	Luboch, E. Materiały sensorowe o makrocyclicznej budowie. Synteza benzokoron oraz azobenzokoron. Zależność: struktura a właściwości jonoforowe Zeszyty Naukowe Politechniki Gdańskiej. Chemia, 54 (604), 3-160 (2007).
913.	19.	Wojciechowski, K., Szuster, L., Urbaniak, M. Analysis of C.I. acid blue 193 structure by means of quantum-chemical methods Annals of the Polish Chemical Society, 628-631 (2007).
914.	20.	Ghanadzadeh Gilani, A., Yazdanbakhsh, M.R., Mahmoodi, N., Moghadam, M., Moradi, E. Solvatochromism and dichroism of fluorinated azoquinolin-8-ol dyes in liquid and liquid crystalline solutions Journal of Molecular Liquids, 139 (1-3), 72-79 (2008).
915.	21.	Furlong, J.J.P., Schiavoni, M.M., Castro, E.A., Allegretti, P.E. Mass spectrometry as a tool for studying tautomerism Russian Journal of Organic Chemistry, 44 (12), 1725-1736 (2008).
916.	22.	Erdem, E., Sari, E.Y., Kiliçarslan, R., Kabay, N. Synthesis and characterization of azo-linked Schiff bases and their nickel(II), copper(II), and zinc(II) complexes Transition Metal Chemistry, 34 (2), 167-174 (2009).
917.	23.	Sheikhshoae, I., Fabian, W.M.F. Theoretical insights into material properties of Schiff bases and related azo compounds Current Organic Chemistry, 13 (2), 149-171 (2009).
918.	24.	Snehalatha, M., Ravikumar, C., Hubert Joe, I. Spectroscopic investigations and ab initio computations of the dye Chromotrope 2R Solid State Sciences, 11 (7), 1275-1282 (2009).
919.	25.	Luboch, E., Wagner-Wysiecka, E., Rzymowski, T. 4-Hexylresorcinol-derived hydroxyazobenzocrown ethers as chromoionophores Tetrahedron, 65 (51), 10671-10678 (2009).
920.	26.	Nedeltcheva, D., Kurteva, V., Damyanova, B., Popov, S. Gas - phase tautomerism in 1 - phenylazonaphthalene - 4 - ol: verification of the responses of individual tautomers Rapid Communications in Mass Spectrometry, 23 (11), 1724-1734 (2009).
921.	27.	Nedeltcheva, D., Kurteva, V., Topalova, I. Gas-phase tautomerism in hydroxy azo dyes-from 4-phenylazo-1-phenol to 4-phenylazo-anthracen-1-ol Rapid Communications in Mass Spectrometry, 24 (6), 714-720 (2010).
922.	28.	Antony Muthu Prabhu, A., Venkatesh, G., Rajendiran, N. Azo-hydrazo tautomerism and inclusion complexation of 1-phenylazo-2- naphthols with various solvents and β -cyclodextrin Journal of Fluorescence, 20 (4), 961-972 (2010).
923.	29.	Das, P., Biswas, A.N. 1-Phenyldiazenyl-8-phenylhydrazononaphthalene-7(8h)-one-2-ol: Co-existence of azo-

		hydroxy and hydrazo-keto forms Journal of Chemical Crystallography, 40 (12), 1167-1169 (2010).
924.	30.	Minkin, V.I., Tsukanov, A.V., Dubonosov, A.D., Bren, V.A. Tautomeric Schiff bases: Iono-, solvato-, thermo- and photochromism Journal of Molecular Structure, 998 (1-3), 179-191 (2011).
925.	31.	Velasco, M.I., Kinen, C.O., Hoyos De Rossi, R., Rossi, L.I. A green alternative to synthesize azo compounds Dyes and Pigments, 90 (3), 259-264 (2011).
926.	32.	El-Shafei, A., Hinks, D., Freeman, H.S. Molecular modeling and predicting dye properties Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of Dyes, 1, 225-244 (2011).
927.	33.	Fragoza-Mar, L., Pérez-Caballero, G., García-Gutierrez, J.L., Jiménez-Cruz, F. Modeling and theory in resonance assisted hydrogen bonding (RAHB) systems: β -diketones (OHO) and arylazophenols (NHO) Molecular Systems: Theory and Modeling (F.Jiménez-Cruz, J.L.García-Gutiérrez, editors), 97-122, Transworld Research Network (2011).
928.	34.	Clark, M. Handbook of Textile and Industrial Dyeing, volume 1, Woodhead Publishing (2011), p. 243
929.	35.	Ghanadzadeh Gilani, A., Moradi, E., Binay, S., Moghadam, M. Tautomeric behavior of some azoquinoline dyes in liquid and liquid crystalline media Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 87, 112-118 (2012).
930.	36.	Dincer, S. Studies of tautomerism in the azonaphthol derivatives of benzimidazoles Bulgarian Chemical Communications, 44 (1), 70-73 (2012).
931.	37.	Saçmaci, M., Çavuş, H.K., Ari, H., Şahingöz, R., Özpozan, T. Novel acid mono azo dye compound: Synthesis, characterization, vibrational, optical and theoretical investigations of 2-[(E)-(8-hydroxyquinolin-5-yl)-diazenyl]-4,5-dimethoxybenzoic acid Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 97, 88-99 (2012).
932.	38.	Kinchia, S., Joshi, B.S., Saraswat, P., Sharma, A., Joshi, J. Novel boron complexes derived from catechol and arylazonaphthols Rasayan Journal of Chemistry, 5 (4), 460-462 (2012).
933.	39.	Alimmary, A.S. Synthesis, structure and solvatochromic properties of 5-(3-and 4-substituted phenylazo)-4,6-diphenyl-3-cyano-2-pyridones Dissertation, University of Belgrade (2012).
934.	40.	Nicolás-Vázquez, I., Pérez-Caballero, G., Jiménez, A.G., Rangel, G.G., Ruvalcaba, R.M. A novel azocompound, 2-(4-phenylazoaniline)-4-phenylphenol: Spectroscopic and quantum-chemical approach International Journal of Quantum Chemistry, 113 (8), 1107-1115 (2013).
935.	41.	Turan, N., Karagoz, Z., Colak, N., Korkoca, H., Sekerci, M. COMPLEXES OF METAL ACETATE WITH A DIAZENYL LIGAND: 4-[(DICYANOMETHYL)]BENZOIC ACID: SPECTROSCOPIC CHARACTERIZATION AND ANTIBACTERIAL ACTIVITY Muş Alparslan University Journal of Science, 1 (1), 27-37 (2013).
936.	42.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study Structural Chemistry, 25 (4), 1257-1270 (2014).
937.	43.	Ferreira, G.R. Estudo espectroscópico do equilíbrio tautomérico em azocompostos derivados do 1-fenil-azo-2-naftol e seus compostos de coordenação Doutorado em Química, Universidade Federal de Juiz de Fora (2014).
938.	44.	Sankaranarayanan, R.K., Rajendiran, N.

		Nanorod formation of cyclodextrin-covered sudan dyes through supramolecular self-assembly Journal of Experimental Nanoscience, 10 (6), 407-428 (2015).
939.	45.	Mikulich, V.S., Muravsky, Al.A., Murauski, An.A., Agabekov, V.E. Effect of cis/trans-isomerisation on photoalignment of azo dyes Russian Journal of General Chemistry, 85 (3), art. 1667, 571-576 (2015).
940.	46.	Cisneros-García, Z.N., Nieto-Delgado, P.G., Rodríguez-Zavala, J.G. Conformational analysis on protonation and deprotonation of calmagite in protic solvents and its reactivity through Fukui function Dyes and Pigments, 121, 188-198 (2015).
941.	47.	Wojciechowski, K., Szuster, L. [Azo-Hyd] Tautomerism and Structure of Selected Metal Complex Dyes AM1 and ZINDO/1 Methods Computational Chemistry, 4, 97-118 (2016).
942.	48.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
943.	49.	Ghanadzadeh Gilani, A., Taghvaei, V., Moradi Rofchahi, E., Mirzaei, M. Photo-physical and structural studies of some synthesized arylazoquinoline dyes Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 185, 111-124 (2017).
944.	50.	Ghanadzadeh Gilani, A., Taghvaei, V., Moradi Rofchahi, E., Mirzaei, M. Tautomerism, solvatochromism, preferential solvation, and density functional study of some heteroarylazo dyes Journal of Molecular Liquids, 273, 392-407 (2019).
945.	51.	Wazzan, N., Safi, Z., Al-Barakati, R., Al-Qurashi, O., Al-Khateeb, L. DFT investigation on the intramolecular and intermolecular proton transfer processes in 2-aminobenzothiazole (ABT) in the gas phase and in different solvents Structural Chemistry, 31 (1), 243-252 (2020).
946.	52.	Neuerová, Z., Lyčka, A. 15N, 13C and 1H NMR study of tautomerism in 2-(phenyldiazenyl)-4-substituted naphthalen-1-ols. Influence of substitution in passive components on azo-hydrazo tautomerism Dyes and Pigments, 188, art. no. 109149 (2021).
947.	53.	Shah, S.N., Erbas, Z., Soylak, M. A novel-easy deep eutectic solvent-based microextraction procedure for the separation, preconcentration and spectrophotometric determination of chromotrope 2R in water, detergent and food samples International Journal of Environmental Analytical Chemistry, doi: 10.1080/03067319.2020.1768249 (2021).
C.28. UV-Vis spectroscopic and chemometric study on the aggregation of ionic dyes in water. L.Antonov, G.Gergov, V.Petrov, M.Kubista & J.Nygren; <i>Talanta</i> , 49 , 99-106 (1999)		
948.	1.	Malinauskas, A., Niaura, G., Bloxham, S., Ruzgas, T., Gorton, L. Electropolymerization of preadsorbed layers of some azine redox dyes on graphite Journal of Colloid and Interface Science, 230 (1), 122-127 (2000).
949.	2.	Xiang, H., Chen, X., Li, S., Xia, S., Liu, A. Determination of deoxyribonucleic acid with methylene blue by a resonance light-scattering method Fenxi Huaxue, 28 (11), 1400-1401 (2000).
950.	3.	Liu, S., Luo, H., Li, N., Liu, Z., Zheng, W. Resonance Rayleigh scattering study of the interaction of heparin with some basic diphenyl naphthylmethane dyes Analytical Chemistry, 73 (16), 3907-3914 (2001).
951.	4.	Luo, H.Q., Liu, S.P., Liu, Z.F., Liu, Q., Li, N.B.

		Resonance Rayleigh scattering spectra for studying the interaction of heparin with some basic phenothiazine dyes and their analytical applications Analytica Chimica Acta, 449 (1-2), 261-270 (2001).
952.	5.	Neves, A.A. Quantificação de óxidos de ferro por espectroscopia de reflectância difusa (Quantification of iron oxides by diffuse reflectance spectroscopy) Doctor Scientiae, Universidade Federal de Vicosia (2001).
953.	6.	Quintão, A.D., Coutinho, K., Canuto, S. Theoretical study of the hydrogen bond interaction between methylene blue and water and possible role on energy transfer for photodynamics International Journal of Quantum Chemistry, 90 (2), 634-640 (2002).
954.	7.	Zaitseva, G., Gushikem, Y., Ribeiro, E.S., Rosatto, S.S. Electrochemical property of methylene blue redox dye immobilized on porous silica-zirconia-antimonia mixed oxide Electrochimica Acta, 47 (9), 1469-1474 (2002).
955.	8.	Bujdák, J., Iyi, N., Fujita, T. The aggregation of methylene blue in montmorillonite dispersions Clay Minerals, 37 (1), 121-133 (2002).
956.	9.	Vogel, R., Harvey, M., Edwards, G., Meredith, P., Heckenberg, N., Trau, M., Rubinsztein-Dunlop, H. Dimer-to-monomer transformation of Rhodamine 6G in aqueous PEO-PPO-PEO block copolymer solutions Macromolecules, 35 (6), 2063-2070 (2002).
957.	10.	Falcone, R.D., Correa, N.M., Biasutti, M.A., Silber, J.J. Acid-base and aggregation processes of acridine orange base in n-heptane/AOT/water reverse micelles Langmuir, 18 (6), 2039-2047 (2002).
958.	11.	Bujdak, J., Iyi, N. Visible spectroscopy of cationic dyes in dispersions with reduced-charge montmorillonites Clays and Clay Minerals, 50 (4), 446-454 (2002).
959.	12.	Arbeloa, F.L. Electronic Spectroscopy of Rhodamine Dyes Adsorbed on Clay Surfaces Encyclopedia of Surface and Colloid Science, CRC Press (2002), p. 2020
960.	13.	Czímerová, A., Bujdák, J., Gáplovsky, A. Reduction of the negative charge of layered silicates probed by cationic, azine dyes Solid State Phenomena, 90-91, 469-474 (2003).
961.	14.	Sarma, G.N., Savvides, S.N., Becker, K., Schirmer, M., Schirmer, R.H., Karplus, P.A. Glutathione reductase of the malarial parasite Plasmodium falciparum: Crystal structure and inhibitor development Journal of Molecular Biology, 328 (4), 893-907 (2003).
962.	15.	Brown, R., Lacombe, S., Cardy, H. Interpretation of spectral broadening and clustering of a pyrene derivative adsorbed on silica gels Microporous and Mesoporous Materials, 59 (2-3), 93-103 (2003).
963.	16.	Vogel, R., Meredith, P., Kartini, I., Harvey, M., Riches, J.D., Bishop, A., Heckenberg, N., Trau, M., Rubinsztein-Dunlop, H. Mesostructured dye-doped titanium dioxide for micro-optoelectronic applications ChemPhysChem, 4 (6), 595-603 (2003).
964.	17.	Arik, M., Onganer, Y. Molecular excitons of Pyronin B and Pyronin Y in colloidal silica suspension Chemical Physics Letters, 375 (1-2), 126-133 (2003).
965.	18.	Qi, Z.-M., Matsuda, N., Takatsu, A., Kato, K., Isago, H. Adsorption of copper tetra-t-butylphthalocyanine aggregates from alcoholic solution onto glass observed by optical waveguide spectroscopy Applied Spectroscopy, 57 (7), 871-874 (2003).
966.	19.	Sun, L.-X., Reddy, A.M., Matsuda, N., Takatsu, A., Kato, K., Okada, T.

		Simultaneous determination of methylene blue and new methylene blue by slab optical waveguide spectroscopy and artificial neural networks Analytica Chimica Acta, 487 (1), 109-116 (2003).
967.	20.	Ribeiro, E.S., Rosatto, S.S., Gushikem, Y., Kubota, L.T. Electrochemical study of Meldola's blue, methylene blue and toluidine blue immobilized on a SiO ₂ /Sb ₂ O ₃ binary oxide matrix obtained by the sol-gel processing method Journal of Solid State Electrochemistry, 7 (10), 665-670 (2003).
968.	21.	Ribeiro, E.S., Dias, S.L.P., Fujiwara, S.T., Gushikem, Y., Bruns, R.E. Electrochemical study and complete factorial design of Toluidine Blue immobilized on SiO ₂ /Sb ₂ O ₃ binary oxide Journal of Applied Electrochemistry, 33 (11), 1069-1075 (2003).
969.	22.	Schirmer, R.H., Coulibaly, B., Stich, A., Scheiwein, M., Merkle, H., Eubel, J., Becker, K., Becher, H., Müller, O., Zich, T., Schiek, W., Kouyaté, B. Methylene blue as an antimalarial agent Redox Report, 8 (5), 272-275 (2003).
970.	23.	Ribeiro, E.S. Oxido misto SiO ₂ /Sb ₂ O ₃ : estudo da tecnica de preparação, características, propriedades e aplicações do material obtido Tese de Doutorado, Universidade Estadual de Campinas (2003).
971.	24.	Vogel, R., Meredith, P., Harvey, M.D., Rubinsztein-Dunlop, H. Absorption and fluorescence spectroscopy of rhodamine 6G in titanium dioxide nanocomposites Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 60 (1-2), 245-249 (2004).
972.	25.	Zhang, L., Li, N., Zhao, F., Li, K. Spectroscopic Study on the Interaction between Methylene Blue and Chondroitin 4-Sulfate and Its Analytical Application Analytical Sciences, 20 (3), 445-450 (2004).
973.	26.	Nitschke, C., O'Flaherty, S.M., Kröll, M., Doyle, J.J., Blau, W.J. Optical properties of zinc phthalocyanine nanoparticle dispersions Chemical Physics Letters, 383 (5-6), 555-560 (2004).
974.	27.	Nitschke, C., O'Flaherty, S.M., Kröll, M., Blau, W.J. Material investigations and optical properties of phthalocyanine nanoparticles Journal of Physical Chemistry B, 108 (4), 1287-1295 (2004).
975.	28.	Qi, Z.-M., Matsuda, N., Takatsu, A., Kato, K. In situ investigation of coadsorption of myoglobin and methylene blue to hydrophilic glass by broadband time-resolved optical waveguide spectroscopy Langmuir, 20 (3), 778-784 (2004).
976.	29.	Inzelt, G., Puskás, Z. Adsorption and precipitation during the redox transformations of phenazine Electrochimica Acta, 49 (12), 1969-1980 (2004).
977.	30.	Ghanadzadeh, A., Tajalli, H., Zirack, P., Shirdel, J. On the photo-physical behavior and electro-optical effect of oxazine dyes in anisotropic host Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 60 (12), 2925-2932 (2004).
978.	31.	Fujita, K., Nakamura, F., Ohno, H. Oriented structure of octadecyl acridine orange intercalated in the monolayer and Langmuir-Blodgett film of octadecyl adenine-thymine base pairs Polymers for Advanced Technologies, 15 (10), 567-572 (2004).
979.	32.	Sariri, R., Zakerhamidi, M.S., Baharpaima, K., Ghanadzadeh, A. The anion effect and molecular association of rhodamine dyes in isotropic and anisotropic solvents Journal of Molecular Liquids, 115 (1), 55-61 (2004).
980.	33.	Martínez, V.M., Arbeloa, F.L., Prieto, J.B., López, T.A., Arbeloa, I.L. Characterization of Rhodamine 6G aggregates intercalated in solid thin films of Laponite

		clay. 1. Absorption spectroscopy Journal of Physical Chemistry B, 108 (52), 20030-20037 (2004).
981.	34.	Lerf, A., Capková, P. Dye/Inorganic Nanocomposites Encyclopedia of Nanoscience and Nanotechnology, 2, 632-694 (2004).
982.	35.	Cheng, Z.H., Xiao, B.P., Yuan, F.L. Determination of heparin using azure B by flow injection analysis-resonance light scattering coupled technique Analytical Letters, 38 (2), 317-330 (2005).
983.	36.	Li, F., Zare, R.N. Molecular orientation study of methylene blue at an air/fused-silica interface using evanescent-wave cavity ring-down spectroscopy Journal of Physical Chemistry B, 109 (8), 3330-3333 (2005).
984.	37.	Chirita, C.N., Congdon, E.E., Yin, H., Kuret, J. Triggers of full-length tau aggregation: A role for partially folded intermediates Biochemistry, 44 (15), 5862-5872 (2005).
985.	38.	Dai, X., Li, Y., Huang, C. Analysis of heparin by combining technique of flow injection analysis with resonance light scattering Fenxi Huaxue, 33 (11), 1535-1538 (2005).
986.	39.	Kruglova, E.B., Gladkovskaya, N.A., Maleev, V.Ya. Use of spectrophotometric analysis to calculate the thermodynamic parameters of binding between an actinocin derivative and DNA Biophysics, 50 (2), 243-254 (2005).
987.	40.	Nitschke, C., O'Flaherty, S.M., Doyle, J.J., Kroell, M., Blau, W.J. Material investigation and nonlinear optical properties of phthalocyanine nanoparticles Nonlinear Optics Quantum Optics, 34 (1-4 SPEC. ISS.), 261-264 (2005).
988.	41.	Dai, X.X., Li, Y.F., Huang, C.Z. Analysis of heparin by combining technique of flow injection analysis with resonance light scattering Chinese Journal of Analytical Chemistry, 33 (11), 1535-1538 (2005).
989.	42.	Schirmer, R.H., Coulibaly, B., Stich, A., Scheiwein, M., Merkle, H., Eubel, J., Becker, K., Becher, H., Müller, O., Zich, T., Schiek, W., Kouyaté, B. Methylene blue as an antimalarial agent Health Research in Developing Countries: A collaboration between Burkina Faso and Germany, 294-298, Springer (2005).
990.	43.	de Souza Lima, I. Quitosanas e quitosanas química e morfológicamente modificadas com anidrido succínico - propriedades, adsorção e termoquímica Doutorado em Química, Universidade Estadual de Campinas (2005).
991.	44.	Rodriguez, H.B., Iriel, A., San Román, E. Energy transfer among dyes on particulate solids Photochemistry and Photobiology, 82 (1), 200-207 (2006).
992.	45.	Habibi, M.H., Hassanzadeh, A., Zeini-Isfahani, A. Effect of dye aggregation and azo-hydrazone tautomerism on the photocatalytic degradation of Solophenyl red 3BL azo dye using aqueous TiO ₂ suspension Dyes and Pigments, 69 (3), 111-117 (2006).
993.	46.	Baranovskii, S.F., Bolotin, P.A., Evstigneev, M.P. Aggregation of 1,3,7-trimethylxanthine with methylene blue in aqueous solution Journal of Applied Spectroscopy, 73 (2), 171-177 (2006).
994.	47.	McCullagh, C., Robertson, P.K.J. Photosensitized destruction of Chlorella vulgaris by methylene blue or nuclear fast red combined with hydrogen peroxide under visible light irradiation Environmental Science and Technology, 40 (7), 2421-2425 (2006).
995.	48.	Havlíková, B., Jančovičová, V., Brezová, V., Čeppan, M., Turanová, M. Study of ageing of arylmethane dyes by UV-VIS spectroscopy

		Restaurator, 27 (1), 24-34 (2006).
996.	49.	Hassanzadeh, A., Zeini-Isfahani, A., Habibi, M.H. Molecular exciton theory calculations based on experimental results for Solophenyl red 3BL azo dye-surfactants interactions Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 64 (2), 464-476 (2006).
997.	50.	Bolotin, P.A., Baranovsky, S.F., Evstigneev, M.P. Spectrophotometric investigation of the hetero-association of Caffeine and thiazine dye in aqueous solution Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 64 (3), 693-697 (2006).
998.	51.	Niazi, A., Ghalie, M., Yazdanipour, A., Ghasemi, J. Spectrophotometric determination of acidity constants of Alizarine Red S in water, water-Brij-35 and water-SDS micellar media solutions Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 64 (3), 660-664 (2006).
999.	52.	D'Ilario, L., Martinelli, A. Toluidine blue: Aggregation properties and structural aspects Modelling and Simulation in Materials Science and Engineering, 14 (4), 581-595 (2006).
1000.	53.	Gándara, F., López-Arbeloa, F., Ruiz-Hitzky, E., Camblor, M.A. "Bottle-around-a-ship" confinement of high loadings of Acridine Orange in new aluminophosphate crystalline materials Journal of Materials Chemistry, 16 (18), 1765-1771 (2006).
1001.	54.	Lima, I.S., Ribeiro, E.S., Airoidi, C. The use of chemically modified chitosan with succinic anhydride in the methylene blue adsorption [O emprego de quitosana quimicamente modificada com anidrido succínico na adsorção de azul de metileno] Química Nova, 29 (3), 501-506 (2006).
1002.	55.	Bujdák, J. Effect of the layer charge of clay minerals on optical properties of organic dyes. A review Applied Clay Science, 34 (1-4), 58-73 (2006).
1003.	56.	Meloun, M., Bordovská, S., Srovný, T., Vrána, A. Tutorial on a chemical model building by least-squares non-linear regression of multiwavelength spectrophotometric pH-titration data Analytica Chimica Acta, 580 (1), 107-121 (2006).
1004.	57.	McCullagh, C., Robertson, P.K.J. Effect of polyethylenimine, a cell permeabilizer, on the photosensitized destruction of algae by methylene blue and nuclear fast red Photochemistry and Photobiology, 82 (6), 1662-1667 (2006).
1005.	58.	Arbeloa, F.L. Electronic Spectroscopy of Rhodamine Dyes Adsorbed on Clay Surfaces Encyclopedia of Surface and Colloid Science, 2 nd edition, CRC Press (2006), p. 2337.
1006.	59.	Mello, P.H. Estudo teórico sobre corantes catiônicos e possíveis modelos que expliquem a interação com a argila do tipo montmorilonita Doctoral Thesis, Universidade de Sao Paulo (2006).
1007.	60.	Jafari, A., Ghanadzadeh, A., Tajalli, H., Yeganeh, M., Moghadam, M. Electronic absorption spectra of cresyl violet acetate in anisotropic and isotropic solvents Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 66 (3), 717-725 (2007).
1008.	61.	Matassa, R., Sadun, C., D'Ilario, L., Martinelli, A., Caminiti, R. Supramolecular organization of toluidine blue dye in solid amorphous phases Journal of Physical Chemistry B, 111 (8), 1994-1999 (2007).
1009.	62.	Zanjanchi, M.A., Ebrahimian, A., Alimohammadi, Z. A spectroscopic study on the adsorption of cationic dyes into mesoporous AIMCM-41 materials

		Optical Materials, 29 (7), 794-800 (2007).
1010.	63.	Fernández, E., García-Río, L., Mejuto, J.C., Parajó, M. Determination of pyridine-2-azo-p-dimethylaniline acidity constants by spectra resolution methodology Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 66 (4-5), 1102-1106 (2007).
1011.	64.	Sohrabnezhad, S., Pourahmad, A., Sadjadi, M.A. New methylene blue incorporated in mordenite zeolite as humidity sensor material Materials Letters, 61 (11-12), 2311-2314 (2007).
1012.	65.	Zaghbani, N., Hafiane, A., Dhahbi, M. Separation of methylene blue from aqueous solution by micellar enhanced ultrafiltration Separation and Purification Technology, 55 (1), 117-124 (2007).
1013.	66.	Küçükiling, T., Özer, I. Multi-site inhibition of human plasma cholinesterase by cationic phenoxazine and phenothiazine dyes Archives of Biochemistry and Biophysics, 461 (2), 294-298 (2007).
1014.	67.	García-Río, L., Godoy, A. Use of spectra resolution methodology to investigate surfactant/ β -cyclodextrin mixed systems Journal of Physical Chemistry B, 111 (23), 6400-6409 (2007).
1015.	68.	García-Río, L., Hervella, P., Mejuto, J.C., Parajó, M. Spectroscopic and kinetic investigation of the interaction between crystal violet and sodium dodecylsulfate Chemical Physics, 335 (2-3), 164-176 (2007).
1016.	69.	Feng, S., Shi, H. Spectroscopic study on the interaction of acridine yellow with adenosine disodium triphosphate and its analytical application Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 68 (2), 244-249 (2007).
1017.	70.	López Arbeloa, F., Martínez Martínez, V., Arbeloa, T., López Arbeloa, I. Photoresponse and anisotropy of rhodamine dye intercalated in ordered clay layered films Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 8 (2), 85-108 (2007).
1018.	71.	Wojciechowski, K., Szuster, L., Urbaniak, M. Analysis of C.I. acid blue 193 structure by means of quantum-chemical methods Annals of the Polish Chemical Society, 628-631 (2007).
1019.	72.	Щитова, Н.П., Телегин, Ф.Ю., Завадская, Л.К. Спектральное и колориметрическое исследование агрегации кубовых красителей в хлопковом и полиэфирном волокнах Электронный научный журнал «ИССЛЕДОВАНО В РОССИИ», 370-380 (2007).
1020.	73.	Cheng, S. Development of multivariate curve resolution and associated system identification tools for IR emission, chiroptical, and far-infrared and far-raman spectroscopies PhD Thesis, National University of Singapore (2007).
1021.	74.	Nicotra, V.E., Mora, M.F., Iglesias, R.A., Baruzzi, A.M. Spectroscopic characterization of thionine species in different media Dyes and Pigments, 76 (2), 315-318 (2008).
1022.	75.	Zhang, M.-L., Sheng, G.-P., Yu, H.-Q. Determination of proteins and carbohydrates in the effluents from wastewater treatment bioreactors using resonance light-scattering method Water Research, 42 (13), 3464-3472 (2008).
1023.	76.	Buchholz, K., Schirmer, R.H., Eubel, J.K., Akoachere, M.B., Dandekar, T., Becker, K., Gromer, S. Interactions of methylene blue with human disulfide reductases and their orthologues from Plasmodium falciparum Antimicrobial Agents and Chemotherapy, 52 (1), 183-191 (2008).

1024.	77.	Cheng, S., Gao, F., Krummel, K.I., Garland, M. The application of BTEM to UV-vis and UV-vis CD spectroscopies: The reaction of Rh ₄ (CO) ₁₂ with chiral and achiral ligands Talanta, 74 (5), 1132-1140 (2008).
1025.	78.	Ghanadzadeh, A., Zeini, A., Kashef, A., Moghadam, M. Concentration effect on the absorption spectra of oxazine1 and methylene blue in aqueous and alcoholic solutions Journal of Molecular Liquids, 138 (1-3), 100-106 (2008).
1026.	79.	Baranovskii, S.F., Bolotin, P.A., Evstigneev, M.P., Chernyshev, D.N. Complexation of heterocyclic ligands with DNA in aqueous solution Journal of Applied Spectroscopy, 75 (2), 251-260 (2008).
1027.	80.	Ghasemi, J.B., Mandoumi, N. A new algorithm for the characterization of thermodynamics of monomer-dimer process of dye stuffs by photometric temperature titration Acta Chimica Slovenica, 55 (2), 377-384 (2008).
1028.	81.	Muntean, S.G., Simu, G.M., Kurunczi, L., Szabadai, Z. Experimental and mathematical study of the aggregation of a green trisazo direct dye Revista de Chimie, 59 (8), 894-897 (2008).
1029.	82.	Ageev, D.V., Patsaeva, S.V., Ryzhikov, B.D., Sorokin, V.N., Yuzhakov, V.I. Influence of temperature and ethanol content on aggregation of rhodamine 6G molecules in aqueous ethanol solutions Journal of Applied Spectroscopy, 75 (5), 653-657 (2008).
1030.	83.	Buurma, N.J., Haq, I. Calorimetric and Spectroscopic Studies of Hoechst 33258: Self-association and Binding to Non-cognate DNA Journal of Molecular Biology, 381 (3), 607-621 (2008).
1031.	84.	Gilani, A.G., Tajalli, H., Zakerhamidi, M.S. Photo-physical behavior of thiazine dyes with or without surfactants into poly-HEMA hydrophilic gel matrix Journal of Molecular Liquids, 143 (2-3), 81-88 (2008).
1032.	85.	Bujdák, J., Czímerová, A., Iyi, N. Structure of cationic dyes assemblies intercalated in the films of montmorillonite Thin Solid Films, 517 (2), 793-799 (2008).
1033.	86.	Mohammad, G., Tahmineh, G. Spectrophotometric determination of acidity constants of thiamine in water, water-triton X-100 micellar media solutions Iranian Journal of Chemistry and Chemical Engineering, 27 (4), 15-20 (2008).
1034.	87.	Acosta, A.A., Raimundo, D.S., Huanca, D.R., Salcedo, W.J. Nanocomposite of porous silicon and methylene blue molecules for optical gas sensor application ECS Transactions, 14 (1), 57-62 (2008).
1035.	88.	Matveeva, E.G., Terpetschnig, E.A., Stevens, M., Patsenker, L., Kolosova, O.S., Gryczynski, Z., Gryczynski, I. Near-infrared squaraine dyes for fluorescence enhanced surface assay Dyes and Pigments, 80 (1), 41-46 (2009).
1036.	89.	Ghasemi, J.B., Miladi, M. Association equilibrium of methylene blue by spectral titration and chemometrics analysis: A thermodynamic study Journal of the Chinese Chemical Society, 56 (3), 459-468 (2009).
1037.	90.	Gao, F., Zhang, H., Guo, L., Garland, M. Application of the BTEM family of algorithms to reconstruct individual UV-Vis spectra from multi-component mixtures Chemometrics and Intelligent Laboratory Systems, 95 (1), 94-100 (2009).
1038.	91.	Giner-Casares, J.J., De Miguel, G., Pérez-Morales, M., Martín-Romero, M.T., Camacho, L., Muñoz, E. Effect of the molecular methylene blue aggregation on the mesoscopic domain

		morphology in mixed monolayers with dimyristoyl - phosphatidic acid Journal of Physical Chemistry C, 113 (14), 5711-5720 (2009).
1039.	92.	Song, J.-P., Guo, Y.-J., Shuang, S.-M., Dong, C. Electrochemical behavior of brilliant cresyl violet at multi-wall carbon nanotubes/Nafion modified glassy carbon electrode and its interaction with cyclodextrins Journal of Inclusion Phenomena and Macrocyclic Chemistry, 64 (1-2), 115-120 (2009).
1040.	93.	Czímerová, A., Čeklovský, A., Bujdák, J. Interaction of montmorillonite with phenothiazine dyes and pyronin in aqueous dispersions: A visible spectroscopy study Central European Journal of Chemistry, 7 (3), 343-353 (2009).
1041.	94.	Salleres, S., López Arbeloa, F., Martínez, V., Corcóstegui, C., López Arbeloa, I. Effect of surfactant C12TMA molecules on the self-association of R6G dye in thin films of laponite clay Materials Chemistry and Physics, 116 (2-3), 550-556 (2009).
1042.	95.	Feng, S., Guo, L. Spectral study on nuclear fast red-clomifene citrate-sodium dodecyl benzene sulfonate system and its analytical application Journal of Analytical Chemistry, 64 (9), 910-915 (2009).
1043.	96.	Varga, O., Kubinyi, M., Vidóczy, T., Baranyai, P., Bitter, I., Kállay, M. Methylene blue-calixarenesulfonate supramolecular complexes and aggregates in aqueous solutions Journal of Photochemistry and Photobiology A: Chemistry, 207 (2-3), 167-172 (2009).
1044.	97.	Whitmore, C.D., Essaka, D., Dovichi, N.J. Six orders of magnitude dynamic range in capillary electrophoresis with ultrasensitive laser-induced fluorescence detection Talanta, 80 (2), 744-748 (2009).
1045.	98.	Čeklovský, A. Spectral properties of porphyrins in the systems with layered silicates Doctoral dissertation, Slovak Academy of Sciences (2009).
1046.	99.	Casares, J.J.G. Organización molecular en películas de langmuir. Estudios por simulación y aplicación en dispositivos orgánicos electroluminiscentes Tesis Doctoral, Universidad de Córdoba (2009).
1047.	100.	Dominguez, K.C.T. Emissão laser em meios espalhadores com ganho: estudos experimentais em soluções etanóicas e aquosas Doutorado em Física, Universidade Federal da Paraíba (2009).
1048.	101.	Adachi, K., Mita, T., Yamate, T., Yamazaki, S., Takechi, H., Watarai, H. Controllable adsorption and ideal H-aggregation behaviors of phenothiazine dyes on the tungsten oxide nanocolloid surface Langmuir, 26 (1), 117-125 (2010).
1049.	102.	Martín, R., Álvaro, M., Herance, J.R., García, H. Fenton-treated functionalized diamond nanoparticles as gene delivery system ACS Nano, 4 (1), 65-74 (2010).
1050.	103.	Alizadeh, K., Rezaei, B., Maddah, B. Spectrophotometric determination of aqueous acidity constants of three azo dyes Central European Journal of Chemistry, 8 (2), 392-395 (2010).
1051.	104.	Boruah, B., Saikia, P.M., Dutta, R.K. Spectrophotometric investigation of the monomer-dimer process of C.I. Basic Blue 9 in aqueous polymer-surfactant system Dyes and Pigments, 85 (1-2), 16-20 (2010).
1052.	105.	Chakraborty, A., Ali, M., Saha, S.K. Molecular interaction of organic dyes in bulk and confined media Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 75 (5), 1577-1583 (2010).
1053.	106.	Benvidi, A., Heidari, F., Ardakani, M.M., Hajishabani, A.M., Ghasemi, J.

		Spectrophotometric determination of acidity constants of 4-(2'-thiazolylazo)- resorcinol (TAR) in water-organic mixtures Chinese Chemical Letters, 21 (6), 725-729 (2010).
1054.	107.	Song, J.-P., Guo, Y.-J., Zhao, Q., Shuang, S.-M., Dong, C., Choi, M.M.F. Assemblies of brilliant cresyl violet to DNA in the presence of γ -cyclodextrin Talanta, 82 (2), 681-686 (2010).
1055.	108.	Zakerhamidi, M.S., Tajalli, H., Ghanadzadeh, A., Milanchian, K., Hosseini Nasab, N., Moghadam, M. Effect of polyacrylamide hydrophilic gel composition on photo-physical behavior of Oxazine 750 Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 77 (1), 164-169 (2010).
1056.	109.	Bener, M., Özyürek, M., Güçlü, K., Apak, R. Polyphenolic contents of natural dyes produced from industrial plants assayed by HPLC and novel spectrophotometric methods Industrial Crops and Products, 32 (3), 499-506 (2010).
1057.	110.	Kamino, S., Horio, Y., Komeda, S., Minoura, K., Ichikawa, H., Horigome, J., Tatsumi, A., Kaji, S., Yamaguchi, T., Usami, Y., Hirota, S., Enomoto, S., Fujita, Y. A new class of rhodamine luminophores: Design, syntheses and aggregation-induced emission enhancement Chemical Communications, 46 (47), 9013-9015 (2010).
1058.	111.	Dopierała, A., Jagiełło, K., Mazerski, J. The influence of reactions conditions on aggregation of dyes used in biochemistry 13th International Symposium of Students and Young Mechanical Engineers : Advances in Chemical and Mechanical Engineering, Gdańsk, 20th-22nd May 2010, Gdansk University of Technology, 56-62 (2010).
1059.	112.	Tansil, N.C., Li, Y., Teng, C.P., Zhang, S., Win, K.Y., Chen, X., Liu, X.Y., Han, M.-Y. Intrinsically colored and luminescent silk Advanced Materials, 23 (12), 1463-1466 (2011).
1060.	113.	Alizadeh, K., Morsali, A. Crystal structure of pyridinyl-2-methylene-4-aminobenzoic acid X-ray Structure Analysis Online, 27 (3), 11-12 (2011).
1061.	114.	Pauli, J., Grabolle, M., Brehm, R., Spieles, M., Hamann, F.M., Wenzel, M., Hilger, I., Resch-Genger, U. Suitable labels for molecular imaging - Influence of dye structure and hydrophilicity on the spectroscopic properties of IgG conjugates Bioconjugate Chemistry, 22 (7), 1298-1308 (2011).
1062.	115.	Liu, C., Xu, Q., Zhang, D., Lu, X., Zhao, S. Determination of netilmicin in rat serum using high performance liquid chromatography and resonance Rayleigh scattering Chinese Journal of Chromatography (Se Pu), 29 (2), 157-161 (2011).
1063.	116.	Gilani, A.G., Moghadam, M., Zakerhamidi, M.S. Dimeric spectra analysis in Microsoft Excel: A comparative study Computer Methods and Programs in Biomedicine, 104 (2), 175-181 (2011).
1064.	117.	Tansil, N.C., Li, Y., Koh, L.D., Peng, T.C., Win, K.Y., Liu, X.Y., Han, M.-Y. The use of molecular fluorescent markers to monitor absorption and distribution of xenobiotics in a silkworm model Biomaterials, 32 (36), 9576-9583 (2011).
1065.	118.	Gilani, A.G., Moghadam, M., Hosseini, S.E., Zakerhamidi, M.S. A comparative study on the aggregate formation of two oxazine dyes in aqueous and aqueous urea solutions Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 83 (1), 100-105 (2011).
1066.	119.	Chakraborty, A., Adhikari, R., Saha, S.K. Molecular interaction of oxazine dyes in aqueous solution: Temperature dependent molecular disposition of the aggregates

		Journal of Molecular Liquids, 164 (3), 250-256 (2011).
1067.	120.	Jiménez-Millán, E., Giner-Casares, J.J., Muñoz, E., Martín-Romero, M.T., Camacho, L. Self-assembly of acridine orange into H-aggregates at the air/water interface: Tuning of orientation of headgroup Langmuir, 27 (24), 14888-14899 (2011).
1068.	121.	González, R.M. Funcionalización de nanomateriales de carbono: Propiedades optoelectrónicas de nanotubos de carbono y aplicaciones de nanopartículas de diamante en catálisis y biocatálisis Tesis Doctoral, Universitat Politècnica de València (2011).
1069.	122.	Albiter, E., Alfaro, S., Valenzuela, M.A. Photosensitized oxidation of 9,10-dimethylantracene on dye-doped silica composites International Journal of Photoenergy, 2012, art. 987606, (2012).
1070.	123.	Singh, V., Aghamkar, P. Studies of third-order optical nonlinearities and optical limiting of 2, 3-butanedione dihydrazone Applied Optics, 51 (13), 2288-2297 (2012).
1071.	124.	Alizadeh, K., Mobarrez, M., Ganjali, M.R., Norouzi, P., Chaichi, M.J. Spectrofluorimetric study of the interaction of ciprofloxacin with amino acids in aqueous solution following solvatochromic studies Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 94, 72-77 (2012).
1072.	125.	Zakerhamidi, M.S., Karimi, A. Hydrophilic gel composition effect on the molecular association and spectroscopic behavior of rhodamine B Canadian Journal of Chemistry, 90 (9), 776-783 (2012).
1073.	126.	Tansil, N.C., Han, M.-Y., Liu, X.Y., Soh, R., Li, Y. Intrinsically colored, luminescent silk fibroin and a method of producing the same US Patent 20120039813 (2012).
1074.	127.	Kong, L., Liu, S. Direct determination of polyacrylamide in water samples by its enhancement effect on the resonance Rayleigh scattering of some basic diphenyl naphthylmethane dyes International Journal of Environmental Analytical Chemistry, 93 (1), 23-34 (2013).
1075.	128.	Gilani, A.G., Salmanpour, M., Ghorbanpour, T. Solvatochromism, dichroism and excited state dipole moment of azure A and methylene blue Journal of Molecular Liquids, 179, 118-123 (2013).
1076.	129.	Ghanadzadeh Gilani, A., Ghorbanpour, T., Salmanpour, M. Additive effect on the dimer formation of thiazine dyes Journal of Molecular Liquids, 177, 273-282 (2013).
1077.	130.	Urrutia, M.N., Ortiz, C.S. Spectroscopic characterization and aggregation of azine compounds in different media Chemical Physics, 412, 41-50 (2013).
1078.	131.	Zakerhamidi, M.S., Moghadam, M., Karimi, A. Aggregative properties of Rhodamine dyes in polyacrylamide hydrophilic gel media Journal of Molecular Structure, 1033, 289-297 (2013).
1079.	132.	Cheab, K., Martel, D., Clément, N., Eckes, F., Kouaho, S., Rogez, G., Dagorne, S., Kurmoo, M., Choua, S., Welter, R. Structural, magnetic and optical properties of an FeIII dimer bridged by the meridional planar divergent N,N'-bis(salicyl)hydrazide and its photo- and electro-chemistry in solution Dalton Transactions, 42 (5), 1406-1416 (2013).
1080.	133.	Kamino, S., Muranaka, A., Murakami, M., Tatsumi, A., Nagaoka, N., Shirasaki, Y., Watanabe, K., Yoshida, K., Horigome, J., Komeda, S., Uchiyama, M., Enomoto, S. A red-emissive aminobenzopyrano-xanthene dye: Elucidation of fluorescence emission mechanisms in solution and in the aggregate state Physical Chemistry Chemical Physics, 15 (6), 2131-2140 (2013).

1081.	134.	Zhang, L., Tang, G.-Q. Elucidation of the binding properties of a photosensitizer to salmon sperm DNA and its photobleaching processes by spectroscopic methods Journal of Fluorescence, 23 (2), 303-310 (2013).
1082.	135.	García, R., Martínez-Martínez, V., Gómez-Hortigüela, L., López Arbeloa, Í., Pérez-Pariente, J. Anisotropic fluorescence materials: Effect of the synthesis conditions over the incorporation, alignment and aggregation of Pyronine y within MgAPO-5 Microporous and Mesoporous Materials, 172, 190-199 (2013).
1083.	136.	Czar, M.F., Jockusch, R.A. Understanding photophysical effects of cucurbituril encapsulation: A model study with acridine orange in the gas phase ChemPhysChem, 14 (6), 1138-1148 (2013).
1084.	137.	Limón, P.M., Gavara, R., Pina, F. Thermodynamics and kinetics of cyanidin 3-glucoside and caffeine copigments Journal of Agricultural and Food Chemistry, 61 (22), 5245-5251 (2013).
1085.	138.	Dunn, T.J., Chiang, L., Ramogida, C.F., Hazin, K., Webb, M.I., Katz, M.J., Storr, T. Class III delocalization and exciton coupling in a bimetallic bis-ligand radical complex Chemistry - A European Journal, 19 (29), 9606-9618 (2013).
1086.	139.	Martínez-Martínez, V., García, R., Gómez-Hortigüela, L., Pérez-Pariente, J., López-Arbeloa, I. Modulating dye aggregation by incorporation into 1D-MgAPO nanochannels Chemistry - A European Journal, 19 (30), 9859-9865 (2013).
1087.	140.	Bercu, E., Sandu, I., Radu, C.-D., Vasilache, V., Toma, V. Interaction of maleic acid copolymers with methylene blue in the presence and absence of melana fibers Materiale Plastice, 50 (3), 215-219 (2013).
1088.	141.	García, R., Martínez-Martínez, V., Sola Llano, R., López-Arbeloa, I., Pérez-Pariente, J. One-dimensional antenna systems by crystallization inclusion of dyes (One-Pot Synthesis) within zeolitic MgAPO-36 nanochannels Journal of Physical Chemistry C, 117 (45), 24063-24070 (2013).
1089.	142.	Rahman, M.M., Mollah, M.Y.A., Rahman, M.M., Susan, A.B.H. Electrochemical Behavior of Malachite Green in Aqueous Solutions of Ionic Surfactants ISRN Electrochemistry, article ID 839498 (2013).
1090.	143.	Digel, I., Akimbekov, N., Turalieva, M., Mansurov, Z., Temiz Artmann, A., Eshibaev, A., Zhubanova, A. Usage of Carbonized Plant Wastes for Purification of Aqueous Solutions Journal of Industrial Technology and Engineering, 2 (7), 47-54 (2013).
1091.	144.	Czimerova, A., Bujdák, J. Study of the Resonance Energy Transfer Between Two Dye Cations Embedded in Layered Silicates Proceedings of The International Conference Nanomaterials: Applications and Properties, 2 (1), art. 01PCSI17 (2013).
1092.	145.	Albiter Escobar, E. Síntesis de nanopartículas inorgánicas con aplicaciones en fotocatalisis Doctorado en Ciencias en Ingeniería Química, Instituto Politécnico Nacional de Mexico (2013).
1093.	146.	Rosa, J.P.M. Nanobiophotonics for biomolecular diagnostics Doutor em Biotecnologia, Universidade NOVA de Lisboa (2013).
1094.	147.	Han, W., Qu, F., Shang, J., Lu, W., Yang, J., Ma, Q. Determination of Amikacin in different pharmaceutical formulations using a resonance Rayleigh scattering method with pontamine sky blue Current Pharmaceutical Analysis, 10 (2), 105-111 (2014).
1095.	148.	Florence, N., Naorem, H. Dimerization of methylene blue in aqueous and mixed aqueous organic solvent: A

		spectroscopic study Journal of Molecular Liquids, 198, 255-258 (2014).
1096.	149.	Braga, G., Aparicio, J.L., Vilsinski, B.H., Tessaro, A.L., Gerola, A.P., Hioka, N., Caetano, W. Self-aggregation of 5,10,15,20-tetrakis(4-methoxyphenyl)porphyrin (tmpp): Spectroscopic studies and multivariate analyzes [Autoagregação da 5,10,15,20-tetrakis(4-metoxifenil)porfirina (tmpp): Estudos espectroscópicos e análises multivariadas] Quimica Nova, 37 (4), 648-652 (2014).
1097.	150.	Epelde-Elezcano, N., Duque-Redondo, E., Martinez-Martínez, V., Manzano, H., López-Arbeloa, I. Preparation, photophysical characterization, and modeling of LDS722/Laponite 2D-Ordered hybrid films Langmuir, 30 (33), 10112-10117 (2014).
1098.	151.	Etienne, T., Chbib, L., Michaux, C., Perpète, E.A., Assfeld, X., Monari, A. All-organic chromophores for dye-sensitized solar cells: A theoretical study on aggregation Dyes and Pigments, 101, 203-211 (2014).
1099.	152.	Bergamonti, L., Alfieri, I., Lorenzi, A., Montenero, A., Predieri, G., Di Maggio, R., Girardi, F., Lazzarini, L., Lottici, P.P. Characterization and photocatalytic activity of TiO ₂ by sol-gel in acid and basic environments Journal of Sol-Gel Science and Technology, 73 (1), 91-102 (2014).
1100.	153.	Kong, L., Liu, Z.F., Liu, S.P. Resonance Rayleigh scattering method for direct determination of polyacrylamide in water samples using basic phenothiazine dyes Journal of Analytical Chemistry, 69 (2), 149-156 (2014).
1101.	154.	Pastierik, T., Šebej, P., Medalová, J., Štacko, P., Klán, P. Near-infrared fluorescent 9-phenylethynylpyronin analogues for bioimaging Journal of Organic Chemistry, 79 (8), 3374-3382 (2014).
1102.	155.	Gilani, A.G., Shokri, S. Spectral and aggregative properties of two oxazine dyes in aqueous solutions containing structure-breaking and multifunctional additives Journal of Molecular Liquids, 193, 194-203 (2014).
1103.	156.	Mondek, J., Mravec, F., Halasová, T., Hnyluchová, Z., Pekař, M. Formation and dissociation of the acridine orange dimer as a tool for studying polyelectrolyte-surfactant interactions Langmuir, 30 (29), 8726-8734 (2014).
1104.	157.	Wang, K., Qi, G., Jiang, Z., Lin, A. High pressure-enhanced dimeric aggregation in methylene blue solution Gaodeng Xuexiao Huaxue Xuebao/Chemical Journal of Chinese Universities, 35 (11), 2431-2434 (2014).
1105.	158.	Goftar, M.K., Moradi, K., Kor, N.M. Spectroscopic studies on aggregation phenomena of dyes European Journal of Experimental Biology, 4 (2), 72-81 (2014).
1106.	159.	Goftar, M.K., Moradi, K., Kor, N.M. Spectrophotometric determination of concentration profiles and thermodynamic parameters of aggregation phenomena of rhodamine B by application of multivariate curve resolution International Journal of Biosciences, 4 (8), 110-115 (2014).
1107.	160.	Goftar, M.K., Mohamadi, N. Application of multivariate curve resolution – alternating least square (MCR-ALS) method for determination of concentration profiles of flavonoid–DNA equilibrium monitored by UV-Vis data International Journal of Biosciences, 5 (1), 169-174 (2014).
1108.	161.	Goftar, M.K., Rayeni, N.A., Mohamadi, N. Spectroscopic studies on the interaction between acridine-spermine conjugate with DNA International Journal of Biosciences, 5 (4), 27-33 (2014).

1109.	162.	Goftar, M.K., Rayeni, N.A., Mohamadi, N. Methylene blue/calf-thymus DNA interaction: spectroscopic and thermodynamic studies International Journal of Biosciences, 5 (5), 176-182 (2014).
1110.	163.	Goftar, M.K., Rayeni, N.A., Kor, N.M. Tharmodynamic characterization of the aggregation phenomena of Safranin T by spectral titration and chemometric analysis International Journal of Advanced Biological and Biomedical Research, 2 (6), 2008-2014 (2014).
1111.	164.	Schenk, J. Optische Spektroskopie in der Ultraschallfalle Dissertation, Humboldt-Universität zu Berlin (2014).
1112.	165.	Altunay, N., Gürkan, R., Kir, U. Ultrasound assisted-cloud point extraction combined with flame atomic absorption spectrometry for selective preconcentration and determination of As(v) in selected water and beverage samples Analytical Methods, 7 (16), 6629-6639 (2015).
1113.	166.	Ferreira, P.H.D., Otuka, A.J.G., Barbano, E.C., Manoel, D.S., De Vicente, F.S., Vollet, D.R., Donatti, D.A., Misoguti, L., Mendonça, C.R. Femtosecond laser fabrication of waveguides in Rhodamine B-doped GPTS/TEOS-derived organic/silica monolithic xerogel Optical Materials, 47, 310-314 (2015).
1114.	167.	Gürkan, R., Altunay, N., Korkmaz, S. A new preconcentration procedure to quantify total acid hydrolyzed fluoride in selected beverages and foods by spectrophotometry Analytical Methods, 7 (12), 5081-5091 (2015).
1115.	168.	Peng, L., Gao, M., Cai, X., Zhang, R., Li, K., Feng, G., Tong, A., Liu, B. A fluorescent light-up probe based on AIE and ESIPT processes for β -galactosidase activity detection and visualization in living cells Journal of Materials Chemistry B, 3 (47), 9168-9172 (2015).
1116.	169.	Horváth, P., Šebej, P., Šolomek, T., Klán, P. Small-molecule fluorophores with large stokes shifts: 9-iminopyronin analogues as clickable tags Journal of Organic Chemistry, 80 (3), 1299-1311 (2015).
1117.	170.	Caram, J.A., Suárez, J.F.M., Gennaro, A.M., Mirífico, M.V. Electrochemical behaviour of methylene blue in non-aqueous solvents Electrochimica Acta, 164, 353-363 (2015).
1118.	171.	Sawicka, M.J. The self-Aggregation of some 7H-indolo[1,2-A]quinolinium dyes in aqueous solution Journal of Molecular Structure, 1098, 26-33 (2015).
1119.	172.	Alizadeh, K., Amraie, A. Electronic absorption spectroscopic behavior and acidity constants of some new dinitrophenylhydrazone derivatives Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 147, art. 13383, 67-72 (2015).
1120.	173.	Altunay, N., Gürkan, R., Sertakan, K. Indirect Determination of Free, Total, and Reversibly Bound Sulfite in Selected Beverages by Spectrophotometry Using Ultrasonic-Assisted Cloud Point Extraction as a Preconcentration Step Food Analytical Methods, 8 (8), 2094-2106 (2015).
1121.	174.	Dasgupta, J., Sikder, J., Mandal, T., Adhikari, U. Reactive red 120 retention through ultrafiltration enhanced by synthetic and natural polyelectrolytes Journal of Hazardous Materials, 299, 192-205 (2015).
1122.	175.	Goftar, M.K., Kor, N.M. Spectroscopic and Thermodynamic Studies on the Interaction of Rhodamine 6G to Calf

		Thymus DNA by Chemometric Analysis Acta Biologica Indica, 4 (2), 189-196 (2015).
1123.	176.	Goftar, M.K., Kor, N.M. Thermodynamic Study of the Intercalation of Rhodamine B into Calf Thymus DNA Acta Biologica Indica, 4 (2), 197-204 (2015).
1124.	177.	Koh, L.D. Bombyx mori silk: from mechanical properties to functionalities PhD Thesis, National University of Singapore (2015).
1125.	178.	Gur, B. THE PREPARATION OF THIN FILMS OF MEROCYANINE 540 (MC540) DYE COMPOUND AND INVESTIGATION OF PHOTOPHYSICAL PROPERTIES PhD Thesis, Ataturk University (2015).
1126.	179.	Kurt, O. Novel Hexadeca Substituted Phthalocyanines Containing Naphthoxy Or Quinolinoxyl Groups PhD Thesis, Istanbul Technical University (2015).
1127.	180.	Florence, N., Naorem, H. Study on the effect of an electrolyte on the self-aggregation and the geometry of the dye aggregates of methylene blue in aqueous media Journal of Surface Science and Technology, 32 (1-2), 28-34 (2016).
1128.	181.	Liang, L., Zhao, L., Zeng, X. Synthesis, optical, and chemical properties of a π -extended rhodol derivative and its derivatives with selectivity and sensitivity for sensing Hg ²⁺ in aqueous media RSC Advances, 6 (88), 85165-85172 (2016).
1129.	182.	Hansda, C., Chakraborty, U., Hussain, S.A., Bhattacharjee, D., Paul, P.K. Layer-by-layer films and colloidal dispersions of graphene oxide nanosheets for efficient control of the fluorescence and aggregation properties of the cationic dye acridine orange Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 157, 79-87 (2016).
1130.	183.	Das, D., Pal, A. Adsorption phenomenon perceived in chitosan beads leading to a fast and enhanced malachite green removal Chemical Engineering Journal, 290, 371-380 (2016).
1131.	184.	Chapman, M., Mullen, M., Novoa-Ortega, E., Alhasani, M., Elman, J.F., Euler, W.B. Structural Evolution of Ultrathin Films of Rhodamine 6G on Glass Journal of Physical Chemistry C, 120 (15), 8289-8297 (2016).
1132.	185.	Gürkan, R., Korkmaz, S., Altunay, N. Preconcentration and determination of vanadium and molybdenum in milk, vegetables and foodstuffs by ultrasonic-thermostatic-assisted cloud point extraction coupled to flame atomic absorption spectrometry Talanta, 155, 38-46 (2016).
1133.	186.	Muntean, S.G., Szabadai, Z., Halip, L. Investigation of aggregation behavior using computational methods and absorption spectra for trisazo direct dyes Structural Chemistry, 27 (4), 1049-1059 (2016).
1134.	187.	Vara, J., Ortiz, C.S. Thiazine dyes: Evaluation of monomeric and aggregate forms Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 166, 112-120 (2016).
1135.	188.	Ganesh, T., Kannappan, V., Mohamed Kamil, M.G., Kumar, R. Investigation of molecular interaction between cefpodoxime acid and human mixtard insulin by ultrasonic and spectral methods Journal of Pharmaceutical and Biomedical Analysis, 129, 237-245 (2016).
1136.	189.	Shenava, S.M., Amin, A.B., Karant, R.M., Venkata, S.J., Ganugula, R. Synthesis of new rhodamine dyed copolymer nanodispersions for textiles-agglomeration and control with copolymer resins

		Dyes and Pigments, 133, 424-434 (2016).
1137.	190.	Wojciechowski, K., Szuster, L. [Azo-Hyd] Tautomerism and Structure of Selected Metal Complex Dyes AM1 and ZINDO/1 Methods Computational Chemistry, 4, 97-118 (2016).
1138.	191.	Abraha, A., Gholap, A., Abebe, B. Investigation of self-association, optical transition probability and hetero-association with chlorogenic acid of nicotinamide using UV-Vis spectroscopy International Journal of Physical Sciences, 11 (21), 269-278 (2016).
1139.	192.	Abraha, A., Kebede, A., Abebe, B. Study of the self-association of amoxicillin, thiamine and the hetero-association with biologically active compound chlorogenic acid African Journal of Pharmacy and Pharmacology, 10 (18), 393-402 (2016).
1140.	193.	Leonenko, E.V., Telbiz, G.M., Dvoynenko, M.M., Manoryk, P.A. Molecular Aggregation and Deaggregation of Rhodamine 6G in the Formation of Hybrid Sol-Gel Films Theoretical and Experimental Chemistry, 52 (6), 383-387 (2017).
1141.	194.	Ma, Q., Song, J.-P., Guo, Y., Shuang, S.-M., Dong, C. Controllable Assembly and Spectroscopic Behavior of Brilliant Cresyl Violet in Different Environments Journal of Applied Spectroscopy, 83 (6), 1051-1060 (2017).
1142.	195.	Terdale, S., Tantray, A. Spectroscopic study of the dimerization of rhodamine 6G in water and different organic solvents Journal of Molecular Liquids, 225, 662-671 (2017).
1143.	196.	Azarias, C., Duchemin, I., Blase, X., Jacquemin, D. Bethe-Salpeter study of cationic dyes: Comparisons with ADC(2) and TD-DFT Journal of Chemical Physics, 146 (3), art. 034301, (2017).
1144.	197.	Shahabadi, N., Shiri, F. Multispectroscopic studies on the interaction of a copper(ii) complex of ibuprofen drug with calf thymus DNA Nucleosides, Nucleotides and Nucleic Acids, 36 (2), 83-106 (2017).
1145.	198.	Ghanadzadeh Gilani, A., Dezhampanah, H., Poormohammadi-Ahandani, Z. A comparative spectroscopic study of thiourea effect on the photophysical and molecular association behavior of various phenothiazine dyes Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 179, 132-143 (2017).
1146.	199.	Fateixa, S., Wilhelm, M., Jorge, A.M., Nogueira, H.I.S., Trindade, T. Raman imaging studies on the adsorption of methylene blue species onto silver modified linen fibers Journal of Raman Spectroscopy, 48 (6), 795-802 (2017).
1147.	200.	Gao, J.-Y., Huang, W.-C., Huang, P.-Y., Song, C.-Y., Hong, J.-L. Light-up of rhodamine hydrazide to generate emissive initiator for polymerization and to afford photochromic polypeptide metal complex Polymers, 9 (9), art. 419, (2017).
1148.	201.	Abraha, A., Gholap, A., Abebe, B. Determinations of norfloxacin complexes with caffeine, and its optical transition probabilities using UV-Vis spectroscopy International Journal of Physical Sciences, 12 (8), 95-102 (2017).
1149.	202.	Dalga, B., Abebe, B. Study of the self-association of caffeine and chlorogenic acid and their hetero-association with methylene blue using spectrophotometric method Romanian Journal of Biophysics, 27 (1-2), 35-53 (2017).
1150.	203.	Bialas, D. Exciton Coupling in Homo- and Heterostacks of Merocyanine and Perylene Bisimide Dyes Doctoral Thesis, Universität Würzburg (2017).

1151.	204.	Martínez Suárez, J.F. Comportamiento electroquímico de colorantes antraquinónicos, azul de metileno, y compuestos afines en solución de solventes no-acuosos Doctor en Ciencias Exactas, Universidad Nacional de la Plata (2017).
1152.	205.	Amado, A.M. Estudos da agregação de corantes cianicos em soluções aquosas homogêneas e na presença de nanoestruturas Doctoral thesis, Universidade de Sao Paulo (2017).
1153.	206.	Chapman, M. Development of Rhodamine 6G Thin Film as a Fluorescent Sensor for Explosive Vapor Detection Dissertation, University of Rhode Island (2017)
1154.	207.	Mansour, N.C., Ouni, H., Hafiane, A. Binding of Methylene Blue to two types of water soluble polymer and its removal by polyelectrolyte enhanced ultrafiltration Membrane Water Treatment, 9 (2), 87-94 (2018).
1155.	208.	Ghanadzadeh Gilani, A., Poormohammadi-Ahandani, Z., Kian, R. Additive-induced aggregate changes of two structurally similar dyes in aqueous solutions: A comparative photophysical study Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 189, 543-555 (2018).
1156.	209.	Arsov, Z., Urbančič, I., Štrancar, J. Aggregation-induced emission spectral shift as a measure of local concentration of a pH-activatable rhodamine-based smart probe Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 190, 486-493 (2018).
1157.	210.	Khadem Sadigh, M., Zakerhamidi, M.S. Media polarity and concentration roles on the third order nonlinear behaviors of thiazine dyes Optics and Laser Technology, 100, 216-224 (2018).
1158.	211.	Yang, W., Zhao, X., Zhang, J., Zhou, Y., Fan, S., Sheng, H., Cao, Y., Hu, Y. Hydroxyphenylquinazolinone-based turn-on fluorescent probe for β -galactosidase activity detection and application in living cells Dyes and Pigments, 156, 100-107 (2018).
1159.	212.	Dong, X., Bond, A.E., Pan, N., Coleman, M., Tang, Y., Sun, Y.-P., Yang, L. Synergistic photoactivated antimicrobial effects of carbon dots combined with dye photosensitizers International Journal of Nanomedicine, 13, 8025-8035 (2018).
1160.	213.	Tamiji, Z., Yazdanipour, A., Niazi, A. Spectrophotometric and Thermodynamic Study on the Dimerization Equilibrium of Neutral Red in the Water and Micelle Environments by Chemometrics Methods International Journal of Experimental Spectroscopic Techniques, 3 (1), art. 015 (2018).
1161.	214.	Cordeiro, M.J.S. Gold NanoBeacons for Spectral Codification – Application as a DNA Sensor Doutor em Biotecnologia, Universidade NOVA de Lisboa (2018).
1162.	215.	Camacho, S.A. Síntese de nanopartículas de ouro para amplificação do espalhamento Raman (SERS) e da fluorescência (SEF) visando aplicações sensoriais Tese de Doutorado, Universidade Estadual Paulista “Júlio de Mesquita Filho” (2018).
1163.	216.	Turner, M.A.P., Horbury, M.D., Stavros, V.G., Hine, N.D.M. Determination of Secondary Species in Solution through Pump-Selective Transient Absorption Spectroscopy and Explicit-Solvent TDDFT Journal of Physical Chemistry A, 123 (4), 873-880 (2019).
1164.	217.	La Cruz, T.E., Carvalho, T.C., Ramírez, A., Tábora, J.E. Implementation of a mathematical model for the photochemical kinetics of a solid form active pharmaceutical ingredient

		International Journal of Pharmaceutics, 566, 500-512 (2019).
1165.	218.	De Souza, M.L., Corio, P. Solvatochromism and ionochromism of the nile blue dye a through raman, infrared and uvvis spectroscopies [Investigação do solvatocromismo e ionocromismo do corante azul do nilo através das espectroscopias raman, infravermelho e uv-vis] Quimica Nova, 42 (9), 1091-1097 (2019).
1166.	219.	Chatterjee, P.M., Tiwari, D.P., Datta, S., Chakrabarty, S., Raval, R., Dubey, A.K. Probing into methylene blue interaction with polyglutamic acid: Spectroscopic and molecular dynamics simulation studies Asian Journal of Chemistry, 31 (9), 1949-1958 (2019).
1167.	220.	Zhang, Z., Rahman, M.M., Abetz, C., Bajer, B., Wang, J., Abetz, V. Quaternization of a Polystyrene-block-poly(4-vinylpyridine) Isoporous Membrane: An Approach to Tune the Pore Size and the Charge Density Macromolecular Rapid Communications, 40 (3), art. 1800729 (2019).
1168.	221.	Chen, Y., Yu, B., Xu, S., Ma, F., Gong, J. Core-Shell-Structured Cyclodextrin Metal-Organic Frameworks for Programmable Cargo Release ACS Applied Materials and Interfaces, 11 (18), 16280-16284 (2019).
1169.	222.	Wang, W., Zhang, W., Sun, H., Li, X., Du, Q., Wei, C., Ge, X., Li, C. The transition from locally excited states to twisted intramolecular charge transfer states for fluorescence methylene blue labeled in biodegradable silica particles Journal of Molecular Liquids, 291, art. 111312 (2019).
1170.	223.	Wang, R., Fang, K., Ren, Y., Song, Y., Zhang, K., Bukhari, M.N. Jetting performance of two lactam compounds in reactive dye solution Journal of Molecular Liquids, 294, art. 111668 (2019).
1171.	224.	Shenderovich, I.G. The Partner Does Matter: The Structure of Heteroaggregates of Acridine Orange in Water Molecules, 24 (15), art. 2816 (2019).
1172.	225.	Zhang, W., Zhang, G., Wang, W., Sun, H., Du, Q., Li, X., Ge, X., Li, C. Modulation of release mechanisms of methylene blue (MB) monomers and dimers from silica-MB@shellac synthesized by antisolvent crystallization Materials Science and Engineering C, 107, art. 110309 (2020).
1173.	226.	Moradian, S., Dezhampahan, H., Ghasemi, J.B., Behnejad, H. Spectrophotometric-chemometrics study of the effect of solvent composition and temperature on the spectral shape and shift of copper and nickel phthalocyanines in different aqueous-nonaqueous mixed solvents Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 227, art. 117621 (2020).
1174.	227.	Zanotto, F.M., Fernández, R.A., Dassie, S.A. Effect of aggregation on the simple ion transfer across oil water interfaces Journal of Electroanalytical Chemistry, 878, art. no. 114678 (2020).
1175.	228.	Trnková, L., Třísková, I. Application of the elimination principle in spectral experiments Workshop of biophysical chemists and electrochemists, 64-65 (2020).
1176.	229.	Qi, Y., Xie, R., Yu, A., Bukhari, M.N., Zhang, L., Cao, C., Peng, H., Fang, K., Chen, W. Effect of ethylene glycol and its derivatives on the aggregation properties of reactive Orange 13 dye aqueous solution RSC Advances, 10 (57), 34373-34380 (2020).
1177.	230.	Novoa-Ortega, E., Dubnicka, M., Euler, W.B. Structure-Property Relationships on the Optical Properties of Rhodamine Thin Films Journal of Physical Chemistry C, 124 (29), 16058-16068 (2020).
1178.	231.	Leem, J.W., Fraser, M.J., Kim, Y.L. Transgenic and Diet-Enhanced Silk Production for Reinforced Biomaterials: A Metamaterial Perspective Annual Review of Biomedical Engineering, 22, 79-102 (2020).
1179.	232.	Jiang, W.-T., Tsai, Y., Wang, X., Li, Z.

		Optimization of acridine orange loading on 1:1 layered clay minerals for fluorescence enhancement Journal of Industrial and Engineering Chemistry, 90, 407-418 (2020).
1180.	233.	Jiang, W.-T., Tsai, Y., Wang, X., Li, Z. Enhanced fluorescence effect of acridine orange sorbed on 2:1 layered clay minerals Applied Clay Science, 189, art. no. 105534 (2020).
1181.	234.	Comeau, Z.J., Facey, G.A., Harris, C.S., Shuhendler, A.J., Lessard, B.H. Engineering Cannabinoid Sensors through Solution-Based Screening of Phthalocyanines ACS Applied Materials and Interfaces, 12, 50692-50702 (2020).
1182.	235.	Chakraborty, U., Maiti, P., Singha, T., Saren, U., Pal, A., Paul, P. K. Effect of montmorillonite clay on the fluorescence resonance energy transfer between two cationic dyes Acridine Orange and Rhodamine B in solution Materials Today: Proceedings, doi: 10.1016/j.matpr.2020.05.047 (2020).
1183.	236.	Zhang, W., Zhang, K., Meng, Y., Sun, H., Li, X., Du, Q., Bai, J., Ge, X., Li, C. Enhanced photophysical properties of silica-methylene blue@amorphous carbon as fluorochromes with modulated Raman-active vibration modes Journal of Photochemistry and Photobiology A: Chemistry, 406, art. no. 112987 (2021).
1184.	237.	Nemati, L., Keypour, H., Shahabadi, N., Hadidi, S., William Gable, R. Synthesis, characterization and DNA interaction of a novel Pt(II) macrocyclic Schiff base complex containing the piperazine moiety and its cytotoxicity and molecular docking Journal of Molecular Liquids, 337, art. no. 116292 (2021).
1185.	238.	Das, A. Portable UV-Visible Spectroscopy – Instrumentation, Technology, and Applications Portable Spectroscopy and Spectrometry (Crocombe, R., Leary, P., Kammrath, B., editors) Wiley-VCH, 179-207 (2021).
C.29. Step-by-step filter based program for calculations of highly informative derivatives curves. V.Petrov, L.Antonov, H.Ehara & N.Harada; <i>Computers and Chemistry</i> , 24 , 561-569 (2000)		
1186.	1.	Михайлюк, И.К. Разработка и применение методов производной спектроскопии высокого порядка для выявления тонкой структуры оптических спектров фотосинтетических пигмент-белковых комплексов Диссертация (кфмн), Московский государственный университет (2003).
1187.	2.	Bosch Ojeda, C., Sanchez Rojas, F. Recent developments in derivative ultraviolet/visible absorption spectrophotometry Analytica Chimica Acta, 518 (1-2), 1-24 (2004).
1188.	3.	Mikhailyuk, I.K., Lokstein, H., Razjivin, A.P. A method of spectral subband decomposition by simultaneous fitting the initial spectrum and a set of its derivatives Journal of Biochemical and Biophysical Methods, 63 (1), 10-23 (2005).
1189.	4.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
1190.	5.	Heger, D., Jirkovský, J., Klán, P. Aggregation of methylene blue in frozen aqueous solutions studied by absorption spectroscopy Journal of Physical Chemistry A, 109 (30), 6702-6709 (2005).
1191.	6.	Heger, D., Klánová, J., Klán, P. Enhanced protonation of cresol red in acidic aqueous solutions caused by freezing Journal of Physical Chemistry B, 110 (3), 1277-1287 (2006).
1192.	7.	Heger, D., Klán, P. Interactions of organic molecules at grain boundaries in ice: A solvatochromic analysis Journal of Photochemistry and Photobiology A: Chemistry, 187 (2-3), 275-284 (2007).
1193.	8.	Nedeltcheva, D., Kurteva, V., Topalova, I. Gas-phase tautomerism in hydroxy azo dyes-from 4-phenylazo-1-phenol to 4-phenylazo-anthracen-1-ol

		Rapid Communications in Mass Spectrometry, 24 (6), 714-720 (2010).
1194.	9.	Darak, V., Karadi, A.B., Arshad, M.D., Appal Raju, S. Derivative spectroscopic determination of mesalamine in tablet dosage forms Pharma Science Monitor, 2 (4), 31-35 (2011).
1195.	10.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study Structural Chemistry, 25 (4), 1257-1270 (2014).
1196.	11.	Kania, R., Malongwe, J.K., Nachtigallová, D., Krausko, J., Gladich, I., Roeselová, M., Heger, D., Klán, P. Spectroscopic properties of benzene at the air-ice interface: A combined experimental-computational approach Journal of Physical Chemistry A, 118 (35), 7535-7547 (2014).
1197.	12.	Ajaj, I., Markovski, J., Rančić, M., Mijin, D., Milčić, M., Jovanović, M., Marinković, A. Solvent and structural effects in tautomeric 2(6)-hydroxy-4-methyl-6(2)-oxo-1-(substituted phenyl)-1,2(1,6)-dihydropyridine-3-carbonitriles: UV, NMR and quantum chemical study Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 150, art. 13723, 575-585 (2015).
1198.	13.	Wojciechowski, K., Jedrzejczak, M. Photochemical Degradation of Disazo Dyes, R-Salt Derivatives, on Dyed Cotton Journal of Natural Fibers, 14 (3), 346-356 (2017).
1199.	14.	Atole, D.M., Rajput, H.H. Ultraviolet spectroscopy and its pharmaceutical applications- A brief review Asian Journal of Pharmaceutical and Clinical Research, 11 (2), 59-66 (2018).
1200.	15.	Ajaj, I., Assaleh, F.H., Markovski, J., Rančić, M., Brković, D., Milčić, M., Marinković, A.D. Solvatochromism and azo-hydrazo tautomerism of novel arylazo pyridone dyes: Experimental and quantum chemical study, Arabian Journal of Chemistry, 12 (8), 3463-3478 (2019).
C.30. Tautomerism of 2-hydroxynaphthaldehyde Schiff bases. <u>L.Antonov</u> , W.M.F.Fabian, D.Nedeltcheva & F.S.Kamounah; <i>Journal of The Chemical Society Perkin Transactions 2</i> , 1173-1179 (2000)		
1201.	1.	Vargas, V., Amigo, L. A study of the tautomers of N-salicylidene-p-X-aniline compounds in methanol Journal of the Chemical Society, Perkin Transactions 2, (7), 1124-1129 (2001).
1202.	2.	Toteva, M.M., O'Donoghue, A.C. Reaction mechanisms: Part (i) polar reactions Annual Reports on the Progress of Chemistry - Section B, 97, 229-278 (2001).
1203.	3.	Flower, K.R., Howard, V.J., Pritchard, R.G., Warren, J.E. Synthesis and characterization of cycloruthenated 2-(phenylimino)phenyls: A useful probe for the elucidation of the tautomeric process in 2-hydroxyphenyl-schiff bases Organometallics, 21 (6), 1184-1189 (2002).
1204.	4.	Flower, K.R., Howard, V.J., Naguthney, S., Pritchard, R.G., Warren, J.E., McGown, A.T. The synthesis and characterization of compounds of the type $\text{Hg}\{1\text{-C}_6\text{H}_4\text{-2-C(H)=NC}_6\text{H}_5\text{-nRn}\}_2$ Inorganic Chemistry, 41 (7), 1907-1912 (2002).
1205.	5.	Flower, K.R., Pritchard, R.G., Warren, J.E. Synthesis of $[\text{RuX(CO)}\{\eta^2\text{-C}_6\text{H}_4\text{C(H)=NC}_6\text{H}_4\text{-4-NO}_2\}\{\text{PPh}_3\}_2]$ (X = F, Cl, Br, I): Evidence of non-conventional Ru-X hydrogen bonds leading to octahedral coordination at the halide atom European Journal of Inorganic Chemistry, (10), 1929-1938 (2003).
1206.	6.	Ünver, H., Durlu, T.N. Crystal structure and conformational analysis of 1-[N-(2-bromophenyl)]naphthalimine Journal of Molecular Structure, 655 (3), 369-374 (2003).
1207.	7.	Ünver, H., Polat, K., Uqar, M., Zengin, D.M. Synthesis and keto-enol tautomerism in N-(2-hydroxy-1-naphthylidene)anils Spectroscopy Letters, 36 (4), 287-301 (2003).

1208.	8.	Reichardt C. Solvents and Solvent Effects in Organic Chemistry, 3rd edition, VCH, p. 112 (2003).
1209.	9.	Víctor, V.C. Time-Resolved Fluorescence of Salicylideneaniline Compounds in Solution Journal of Physical Chemistry A, 108 (2), 281-288 (2004).
1210.	10.	Ohshima, A., Momotake, A., Arai, T. Photochromism, thermochromism, and solvatochromism of naphthalene-based analogues of salicylideneaniline in solution Journal of Photochemistry and Photobiology A: Chemistry, 162 (2-3), 473-479 (2004).
1211.	11.	Popović, Z., Roje, V., Pavlović, G., Matković-Čalogović, D., Rajić, M., Leban, I. Complexes of zinc(II) halides with N-benzyl- and N-p-tolyl-2-oxo-1-naphthylideneamine - Preparation and characterization Polyhedron, 23 (8), 1293-1302 (2004).
1212.	12.	Uçar, M., Polat, K., Aksu, M.L., Ünver, H. Electrochemical reduction of 1-[(4-halophenyl)imino]methyl-2-naphthols in aprotic media Analytical Sciences, 20 (8), 1179-1183 (2004).
1213.	13.	Alarcón, S.H., Olivieri, A.C., Sanz, D., Claramunt, R.M., Elguero, J. Substituent and solvent effects on the proton transfer equilibrium in anils and azo derivatives of naphthol. Multinuclear NMR study and theoretical calculations Journal of Molecular Structure, 705 (1-3), 1-9 (2004).
1214.	14.	Popović, Z., Pavlović, G., Roje, V., Došlić, N., Matković-Čalogović, D., Leban, I. Nitroaniline derivatives of 2-oxo-1-naphthylideneamines - Molecular self-assembling via C-H...O intermolecular hydrogen bonds and stabilization of O-H...N and N-H...O tautomers in solution and solid state Structural Chemistry, 15 (6), 587-598 (2004).
1215.	15.	Flower, K.R., Leal, L.G., Pritchard, R.G. The synthesis and crystallographic characterisation of the complexes [RuX(CO)(η ² -C ₆ H ₅ C(H)NC 6H ₄ -4Me)(PPh ₃) ₂] • CHCl ₃ (X = Cl, Br, I, F): Evidence for competing Ru-X...Cl-CHCl ₂ and RuX...HCCl ₃ interactions in the solid state Journal of Organometallic Chemistry, 690 (14), 3390-3396 (2005).
1216.	16.	Yi, P.G., Liang, Y.H., Cao, C.Z. Intramolecular proton or hydrogen-atom transfer in the ground- and excited-states of 2-hydroxybenzophenone: A theoretical study Chemical Physics, 315 (3), 297-302 (2005).
1217.	17.	Filarowski, A., Kochel, A., Cieslik, K., Koll, A. Steric and aromatic impact on intramolecular hydrogen bonds in o-hydroxyaryl ketones and ketimines Journal of Physical Organic Chemistry, 18 (10), 986-993 (2005).
1218.	18.	Raczyńska, E.D., Kosińska, W., Ośmiałowski, B., Gawinecki, R. Tautomeric equilibria in relation to Pi-electron delocalization Chemical Reviews, 105 (10), 3561-3612 (2005).
1219.	19.	Rozwadowski, Z. Deuterium isotope effects on ¹³ C chemical shifts of lithium salts of Schiff bases amino acids Journal of Molecular Structure, 753 (1-3), 127-131 (2005).
1220.	20.	Azzouzi, F., Lyazidi, S.A., Haddad, M., El Messaoudi, M., Hasnaoui, A., Ben Larbi, N. Ultraviolet-visible spectroscopic study of 3,5-dithio-2,7-dimethyl-[1,2,4]-triazepine: Qualitative analysis of tautomeric behaviour Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 62 (4-5), 875-879 (2005).
1221.	21.	Douhal, A., Sanz, M., Tormo, L. Femtochemistry of orange II in solution and in chemical and biological nanocavities Proceedings of the National Academy of Sciences of the United States of America, 102 (52), 18807-18812 (2005).
1222.	22.	Hammud, H.H., Ghannoum, A., Masoud, M.S.

		Spectral regression and correlation coefficients of some benzaldimines and salicylaldimines in different solvents Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 63 (2), 255-265 (2006).
1223.	23.	Mohanan, K., Nirmala Devi, S., Murukan, B. Complexes of copper(II) with 2-(N-salicylideneamino)- 3-carboxyethyl-4,5,6, 7-tetrahydrobenzo[b]thiophene containing different counter anions Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry, 36 (6), 441-449 (2006).
1224.	24.	Ünver, H., Karakaş, A., Çolak, N., Çakir, B., Yüksel, H., Zengin, D.M. Spectroscopic properties of 4-halo-2-(4-chlorophenyliminomethyl)phenol and 4-halo-2-(4-bromophenyliminomethyl)phenol Asian Journal of Chemistry, 18 (3), 1935-1942 (2006).
1225.	25.	Mohanan, K., Devi, S.N. Synthesis, characterization, thermal stability, reactivity, and antimicrobial properties of some novel lanthanide(III) complexes of 2-(N-salicylideneamino)-3-carboxyethyl-4,5,6,7-tetrahydrobenzo[b]thiophene Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 32 (8), 600-609 (2006).
1226.	26.	Ohshima, A., Momotake, A., Arai, T. Substituent effects on the ground-state properties of naphthalene-based analogues of salicylideneaniline in solution Bulletin of the Chemical Society of Japan, 79 (2), 305-311 (2006).
1227.	27.	Fita, P., Luzina, E., Dziembowska, T., Radzewicz, Cz., Grabowska, A. Chemistry, photophysics, and ultrafast kinetics of two structurally related Schiff bases containing the naphthalene or quinoline ring Journal of Chemical Physics, 125 (18), art. 184508, (2006).
1228.	28.	Claramunt, R.M., López, C., Santa María, M.D., Sanz, D., Elguero, J. The use of NMR spectroscopy to study tautomerism Progress in Nuclear Magnetic Resonance Spectroscopy, 49 (3-4), 169-206 (2006).
1229.	29.	Prasad De, S., Ash, S., Dalai, S., Misra, A. A DFT-based comparative study on the excited states intramolecular proton transfer in 1-hydroxy-2-naphthaldehyde and 2-hydroxy-3-naphthaldehyde Journal of Molecular Structure: THEOCHEM, 807 (1-3), 33-41 (2007).
1230.	30.	Barkat, D., Kameche, M. Liquid-liquid extraction of copper(II) with Schiff's bases derived from salicylaldehyde Physics and Chemistry of Liquids, 45 (3), 289-293 (2007).
1231.	31.	Gawinecki, R., Kuczek, A., Kolehmainen, E., Ośmiałowski, B., Krygowski, T.M., Kauppinen, R. Influence of bond fixation in benzo-annulated N-salicylideneanilines and their ortho-C(=O)X derivatives (X = CH ₃ , NH ₂ , OCH ₃) on tautomeric equilibria in solution Journal of Organic Chemistry, 72 (15), 5598-5607 (2007).
1232.	32.	Asiri, A.M., Badahdah, K.O. Synthesis of some new anils: Part 1. Reaction of 2-hydroxy-benzaldehyde and 2-hydroxynaphthaldehyde with 2-aminopyridine and 2-aminopyrazine Molecules, 12 (8), 1796-1804 (2007).
1233.	33.	La, J.Q.-H., Michaelides, A.A., Manderville, R.A. Tautomeric equilibria in phenolic a-ring derivatives of prodigiosin natural products Journal of Physical Chemistry B, 111 (40), 11803-11811 (2007).
1234.	34.	Minyaeva, L.G., Tyurin, R.V., Mezheritskii, V.V., Tsukanov, A.V., Shepelenko, E.N., Dubonosov, A.D., Bren, V.A., Minkin, V.I. Ambident chemosensors based on benzo[h]chromen-2-one Russian Journal of Organic Chemistry, 43 (12), 1836-1841 (2007).
1235.	35.	Mohanan, K., Thankamony, M., Kumari, B.S. Synthesis, spectroscopic characterization, and thermal decomposition kinetics of some lanthanide(III) nitrate complexes of 2-(N-o-hydroxyacetophenone)amino-3-carboxyethyl-4,5,6,7-tetrahydrobenzo[b]thiophene

		Journal of Rare Earths, 26 (4), 463-469 (2008).
1236.	36.	Dubonosov, A.D., Minkin, V.I., Bren, V.A., Shepelenko, E.N., Tsukanov, A.V., Starikov, A.G., Borodkin, G.S. Tautomeric crown-containing chemosensors for alkali-earth metal cations Tetrahedron, 64 (14), 3160-3167 (2008).
1237.	37.	Daniel, V.P., Murukan, B., Kumari, B.S., Mohanan, K. Synthesis, spectroscopic characterization, electrochemical behaviour, reactivity and antibacterial activity of some transition metal complexes with 2-(N-salicylideneamino)-3-carboxyethyl-4,5-dimethylthiophene Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 70 (2), 403-410 (2008).
1238.	38.	Kluba, M., Lipkowski, P., Filarowski, A. Theoretical investigation of tautomeric equilibrium in ortho-hydroxy phenyl Schiff bases Chemical Physics Letters, 463 (4-6), 426-430 (2008).
1239.	39.	Hong, Y., Xiao, J.-Y., Chen, S.-P., Wang, W.-L., Huang, K.-L. Synthesis of substituted aromatic aldehydes bis-Schiff bases and their spectrum properties Chinese Journal of Organic Chemistry, 28 (8), 1404-1409 (2008).
1240.	40.	Lipkowski, J., Fita, P., Grabowska, A. Crystal Structure of a Schiff Base, 2-Hydroxynaphthylidene-(8-aminoquinoline) - In Search of Two Tautomeric Forms Polish Journal of Chemistry, 82 (10), 2009-2016 (2008).
1241.	41.	De, S.P., Ash, S., Bhui, D.k., Bar, H., Sarkar, P., Sahoo, G.P., Misra, A. DFT based computational study on the excited state intramolecular proton transfer processes in o-hydroxybenzaldehyde Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 71 (5), 1728-1735 (2009).
1242.	42.	Tezer, N., Karakus, N. Theoretical study on the ground state intramolecular proton transfer (IPT) and solvation effect in two Schiff bases formed by 2-aminopyridine with 2-hydroxy-1-naphthaldehyde and 2-hydroxy salicylaldehyde Journal of Molecular Modeling, 15 (3), 223-232 (2009).
1243.	43.	Houjou, H., Motoyama, T., Banno, S., Yoshikawa, I., Araki, K. Experimental and theoretical studies on constitutional isomers of 2, 6-dihydroxynaphthalene carbaldehydes. effects of resonance-assisted hydrogen bonding on the electronic absorption spectra Journal of Organic Chemistry, 74 (2), 520-529 (2009).
1244.	44.	Novak, P., Pičuljan, K., Hrenar, T., Biljan, T., Meić, Z. Hydrogen bonding and solution state structure of salicylaldehyde-4-phenylthiosemicarbazone: A combined experimental and theoretical study Journal of Molecular Structure, 919 (1-3), 66-71 (2009).
1245.	45.	Baçoğlu, A., Parlayan, S., Ocak, M., Alp, H., Kantekin, H., Özdemir, M., Ocak, U. Complexation of metal ions with the novel 2-hydroxy-1-naphthaldehyde-derived diamine Schiff base carrying a macrobicyclic moiety with N2O2S2 mixed donor in acetonitrile-dichloromethane Polyhedron, 28 (6), 1115-1120 (2009).
1246.	46.	Bertolasi, V., Gilli, P., Gilli, G. Crystal chemistry and prototropic tautomerism in 2-(1-iminoalkyl)-phenols (or naphthols) and 2-diazenyl-phenols (or naphthols) Current Organic Chemistry, 13 (3), 250-268 (2009).
1247.	47.	Hadjoudis, E., Chatziefthimiou, S.D., Mavridis, I.M. Anils: Photochromism by H-transfer Current Organic Chemistry, 13 (3), 269-286 (2009).
1248.	48.	Kiraz, A., Yildiz, M., Dulger, B. Synthesis and characterization of crown ethers Asian Journal of Chemistry, 21 (6), 4495-4507 (2009).
1249.	49.	Filipczak, K., Karolczak, J., Ziółek, M.

		Temperature influence on deactivation paths and tautomeric equilibrium of some photochromic Schiff bases studied by time-resolved and stationary spectroscopy Photochemical and Photobiological Sciences, 8 (11), 1603-1610 (2009).
1250.	50.	Liu, Z., Zhang, S., Xia, G., Liang, Z., Gao, Y. Synthesis and photochromic property of three novel calix[4]arene-schiff bases [Synthesis and photochromic property of three novel calix[4]arene-schiff bases] Chinese Journal of Organic Chemistry, 29 (11), 1799-1803 (2009).
1251.	51.	Sidhu, A., Sharma, J.R., Rai, M. Chemoselective reaction of cyanoacetic acid with benzal-4-acetylanilines and fungitoxicity of products Journal of Chemical Sciences, 121 (4), 449-453 (2009).
1252.	52.	Zugazagoitia, J.S., Maya, M., Damián-Zea, C., Navarro, P., Beltran, H.I., Peon, J. Excited-state dynamics and two-photon absorption cross sections of fluorescent diphenyltinIV derivatives with schiff bases: A comparative study of the effect of chelation from the ultrafast to the steady-state time scale Journal of Physical Chemistry A, 114 (2), 704-714 (2010).
1253.	53.	Prabhu, A.A.M., Venkatesh, G., Sankaranarayanan, R.K., Siva, S., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 4-amino-2', 3-dimethylazobenzene Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 49 (4), 407-417 (2010).
1254.	54.	Antony Muthu Prabhu, A., Venkatesh, G., Rajendiran, N. Azo-hydrazo tautomerism and inclusion complexation of 1-phenylazo-2- naphthols with various solvents and β -cyclodextrin Journal of Fluorescence, 20 (4), 961-972 (2010).
1255.	55.	Venkatachalam, T.K., Pierens, G.K., Campitelli, M.R., Reutens, D.C. Structural investigation on phenyl- and pyridin-2-ylamino(methylene) naphthalen- 2(3H)-one. Substituent effects on the NMR chemical shifts Magnetic Resonance in Chemistry, 48 (8), 585-592 (2010).
1256.	56.	El-Boraey, H.A., Abdel-Rahman, R.M., Atia, E.M., Hilmy, K.H. Spectroscopic, thermal and toxicity studies of some 2-amino - 3- cyano - 1, 5 - diphenylpyrrole containing Schiff bases copper (II) complexes Central European Journal of Chemistry, 8 (4), 820-833 (2010).
1257.	57.	Venkatachalam, T.K., Pierens, G.K., Reutens, D. Synthesis and characterization of anils exhibiting thermochromism Australian Journal of Chemistry, 63 (8), 1272-1282 (2010).
1258.	58.	Aidi, A., Barkat, D. Solvent extraction of copper(II) from sulfate medium with N -(2-hydroxybenzylidene)aniline Journal of Coordination Chemistry, 63 (23), 4136-4144 (2010).
1259.	59.	Kenny, P.W., Taylor, P.J. The Prediction of Tautomer Preference in Aqueous Solution OpenEye Scientific Software (2010).
1260.	60.	Domínguez, O., Rodríguez-Molina, B., Rodríguez, M., Ariza, A., Farfán, N., Santillan, R. X-Ray crystallographic and spectroscopic properties of eight Schiff bases as evidence of the proton transfer reaction. Role of the intermolecular hydrogen bond New Journal of Chemistry, 35 (1), 156-164 (2011).
1261.	61.	Premakumari, J., Roy, G.A.G., Prabhu, A.A.M., Venkatesh, G., Subramanian, V.K., Rajendiran, N. Effect of solvents and ph on β -cyclodextrin inclusion complexation of 2,4-dihydroxyazobenzene and 4-hydroxyazobenzene Journal of Solution Chemistry, 40 (2), 327-347 (2011).
1262.	62.	Buruiana, E.C., Jitaru, F., Hitruc, G., Buruiana, T. Synthesis and properties of photosensitive poly(urethane-acrylate) containing anil groups with application in the chemosensors area Polymer Engineering and Science, 51 (5), 884-893 (2011).

1263.	63.	Sliwa, M., Naumov, P., Choi, H.-J., Nguyen, Q.-T., Debus, B., Delbaere, S., Ruckebusch, C. Effects of a self-assembled molecular capsule on the ultrafast photodynamics of a photochromic salicylideneaniline guest ChemPhysChem, 12 (9), 1669-1672 (2011).
1264.	64.	Venkatachalam, T.K., Pierens, G.K., Bernhardt, P.V., Hammond, L., Reutens, D.C. Synthesis and structural characterization of (Z)-3-[(4-Chlorophenylamino) Methylene] naphthalene-2(3H)-One: An enol, keto or zwitterionic tautomer? Journal of Chemical Crystallography, 41 (7), 944-951 (2011).
1265.	65.	Venkatesh, G., Prabhu, A.A.M., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 1-(2,4-diamino phenylazo) naphthalene and 4-aminoazobenzene Journal of Fluorescence, 21 (4), 1485-1497 (2011).
1266.	66.	Minkin, V.I., Tsukanov, A.V., Dubonosov, A.D., Bren, V.A. Tautomeric Schiff bases: Iono-, solvato-, thermo- and photochromism Journal of Molecular Structure, 998 (1-3), 179-191 (2011).
1267.	67.	Daniel, V.P., Pillai, T.P.C., Kumari, B.S., Joseyphus, R.S., Mohanan, K. Synthesis, characterization, electrochemical properties and antibacterial activity of some transition metal complexes with 2-[N-(2'-hydroxy-1'-naphthylidene)-amino]-3-carboxyethyl-4,5-dimethylthiophene Journal of the Indian Chemical Society, 88 (11), 1639-1646 (2011).
1268.	68.	Yang, X.-G., Zhuang, Y., Yang, G., Xuan, Z.-W., Tang, R.-R. Synthesis and chemochromic behavior of a water-soluble novel salicylidene hydrazone containing naphthalimide chromophore Zhongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Central South University (Science and Technology), 42 (12), 3698-3701 (2011).
1269.	69.	Fragoza-Mar, L., Pérez-Caballero, G., García-Gutierrez, J.L., Jiménez-Cruz, F. Modeling and theory in resonance assisted hydrogen bonding (RAHB) systems: β -diketones (OHO) and arylazophenols (NHO) Molecular Systems: Theory and Modeling (F.Jiménez-Cruz, J.L.García-Gutiérrez, editors), 97-122, Transworld Research Network (2011).
1270.	70.	Olyaei, A., Gesmati, F., Sadeghpour, M., Shams, B., Alizadeh, M. Synthesis of novel anil-like compounds from heteroaryl amines, naphthols, and triethylorthoformate under solvent-free conditions Synthetic Communications, 42 (11), 1650-1660 (2012).
1271.	71.	Pierens, G.K., Venkatachalam, T.K., Bernhardt, P.V., Riley, M.J., Reutens, D.C. A solid state study of keto-enol tautomerism in three naphthalene schiff bases Australian Journal of Chemistry, 65 (5), 552-556 (2012).
1272.	72.	Tanak, H. Density functional computational studies on 2-[(2,4-dimethylphenyl) iminomethyl]-3,5-dimethoxyphenol International Journal of Quantum Chemistry, 112 (11), 2392-2402 (2012).
1273.	73.	Nagy, P.I. Theoretical studies of the solvent effect on the conformation of the HO-C-C-X (X = F, NH ₂ , NO ₂) moiety with competing intra- and intermolecular hydrogen bonds Journal of Physical Chemistry A, 116 (29), 7726-7741 (2012).
1274.	74.	Nakano, T., Masuda, Y. Application of nuclear magnetic relaxation to elucidate proton location and dynamics in N...H...O hydrogen bonds Journal of Physical Chemistry A, 116 (33), 8409-8418 (2012).
1275.	75.	Owolabi, S.A. Synthesis, characterization and antimicrobial activity of copper(II) complexes of some hydroxybenzaldehydes and their derivatives Doctor of philosophy (science), Rhodes University (2012).
1276.	76.	Moghadam, A.J., Omidyan, R., Mirkhani, V., Azimi, G. Theoretical investigation of excited state proton transfer process in the n-salicylidene-2-bromoethylamine

		Journal of Physical Chemistry A, 117 (4), 718-725 (2013).
1277.	77.	Zakerhamidi, M.S., Nejati, K., Golghasemi Sorkhabi, S., Saati, M. Substituent and solvent effects on the spectroscopic properties and dipole moments of hydroxyl benzaldehyde azo dye and related Schiff bases Journal of Molecular Liquids, 180, 225-234 (2013).
1278.	78.	Singh, V.P., Tiwari, K., Mishra, M., Srivastava, N., Saha, S. 5-[(2-Hydroxynaphthalen-1-yl)methylene]amino]pyrimidine-2,4(1H,3H)-dione as Al ³⁺ selective colorimetric and fluorescent chemosensor Sensors and Actuators, B: Chemical, 182, 546-554 (2013).
1279.	79.	Men, G., Zhang, G., Liang, C., Liu, H., Yang, B., Pan, Y., Wang, Z., Jiang, S. A dual channel optical detector for trace water chemodosimetry and imaging of live cells Analyst, 138 (10), 2847-2857 (2013).
1280.	80.	Jones, R.C., Herasymchuk, K., Mahdi, T., Petrov, A., Resanović, S., Vaughan, D.G., Lough, A.J., Quail, J.W., Koivisto, B.D., Wylie, R.S., Gossage, R.A. Tautomerism and metal complexation of 2-acylmethyl-2-oxazolines: A combined synthetic, spectroscopic, crystallographic and theoretical treatment Organic and Biomolecular Chemistry, 11 (21), 3484-3493 (2013).
1281.	81.	Houjou, H., Shingai, H., Yagi, K., Yoshikawa, I., Araki, K. Mutual interference between intramolecular proton transfer sites through the adjoining π -conjugated system in Schiff bases of double-headed, fused salicylaldehydes Journal of Organic Chemistry, 78 (18), 9021-9031 (2013).
1282.	82.	De, S., Ray, M., Pati, A.Y., Das, P.K. Base triggered enhancement of first hyperpolarizability of a keto-enol tautomer Journal of Physical Chemistry B, 117 (48), 15086-15092 (2013).
1283.	83.	Shah, A., Shah, A.A. Spectroscopic Studies and Keto-Enol Tautomeric Effect of Newer Schiff Bases of ortho-Hydroxy-benzaldehyde/naphthaldehyde with 1,2-Phenylenediamine and 4-Aminophenyl Ether Asian Journal of Chemistry, 25 (8), 4215-4218 (2013).
1284.	84.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study Structural Chemistry, 25 (4), 1257-1270 (2014).
1285.	85.	Hara, S., Houjou, H., Yoshikawa, I., Sato, H., Yamano, A., Namatame, Y., Mutai, T., Araki, K. Spectroscopic tracking of schiff base compounds' hydrogen bonding reorganization associated with solid-to-solid phase transition Journal of Physical Chemistry A, 118 (34), 6979-6984 (2014).
1286.	86.	Gashnga, P.M., Singh, T.S., Baul, T.S.B., Mitra, S. Photophysical properties and excited state intramolecular proton transfer in 2-hydroxy-5-[(E)-(4-methoxyphenyl)diazenyl]benzoic acid in homogeneous solvents and micro-heterogeneous environments Journal of Luminescence, 148, 134-142 (2014).
1287.	87.	Pan, Z.-H., Zhou, J.-W., Luo, G.-G. Experimental and theoretical study of enol-keto prototropic tautomerism and photophysics of azomethine-BODIPY dyads Physical Chemistry Chemical Physics, 16 (30), 16290-16301 (2014).
1288.	88.	Rajendiran, N., Venkatesh, G., Sankaranarayanan, R.K. Encapsulation of thiazolyazoresorcinol and thiazolyazocresol dyes with α - And β -cyclodextrin cavities: Spectral and molecular modeling studies Journal of Molecular Structure, 1072 (1), 242-252 (2014).
1289.	89.	Kumar, V., Kumar, A., Diwan, U., Shweta, Ramesh, Srivastava, S.K., Upadhyay, K.K. Salicylideneimines as efficient dual channel emissive probes for Al ³⁺ : Harnessing ESIPT and ICT processes Sensors and Actuators, B: Chemical, (PartA), 650-657 (2015).
1290.	90.	Lachachi, M.B., Benabdallah, T., Aguiar, P.M., Youcef, M.H., Whitwood, A.C., Lynam, J.M. Synthesis of a series of new platinum organometallic complexes derived from bidentate

		Schiff-base ligands and their catalytic activity in the hydrosilylation and dehydrosilylation of styrene Dalton Transactions, 44 (26), 11919-11928 (2015).
1291.	91.	Baral, M., Gupta, A., Kanungo, B.K. Development of a dipodal Schiff base ligand with N-imine and O-naphtholate donors: A potential chelator towards Cu(II) metal ion established through potentiometric and spectrophotometric studies AIP Conference Proceedings, 1675, art. 020018, (2015).
1292.	92.	Szady-Chelmieniecka, A., Ossowicz, P., Schilf, W., Rozwadowski, Z. Spectral assignment and proton transfer studies of N-(R-salicylidene)-1-amino-1-deoxy- d - sorbitols Magnetic Resonance in Chemistry, 53 (10), 849-852 (2015).
1293.	93.	El-Bindary, A.A., Shoaib, A.F., El-Sonbati, A.Z., Diab, M.A., Abdo, E.E. Geometrical structure, molecular docking and potentiometric studies of Schiff base ligand Journal of Molecular Liquids, 212, art. 5158, 576-584 (2015).
1294.	94.	Tiwari, K. Synthesis and Characterization of some Schiff Bases as Chemosensors for the Detection of Al ³⁺ and Water Content PhD Thesis, Banras Hindu University (2015).
1295.	95.	Bagheri, F., Olyaei, A. A novel approach toward the synthesis of some new tridentate Schiff bases from anil-like compounds Journal of the Serbian Chemical Society, 81 (10), 1111-1119 (2016).
1296.	96.	Shweta, N., Asthana, S.K., Mishra, R.K., Upadhyay, K.K. Design-specific mechanistic regulation of the sensing phenomena of two Schiff bases towards Al ³⁺ RSC Advances, 6 (60), 55430-55437 (2016).
1297.	97.	Chen, Z., Guieu, S., White, N.G., Lelj, F., MacLachlan, M.J. The Rich Tautomeric Behavior of Campestarenes Chemistry - A European Journal, 22 (49), 17657-17672 (2016).
1298.	98.	Ziegenbalg, S., Hornig, D., Görls, H., Plass, W. Cobalt(II)-Based Single-Ion Magnets with Distorted Pseudotetrahedral [N2O2] Coordination: Experimental and Theoretical Investigations Inorganic Chemistry, 55 (8), 4047-4058 (2016).
1299.	99.	Adriano Junior, L., Fonseca, T.L., Castro, M.A. Solvent effects on the absorption spectrum and first hyperpolarizability of keto-enol tautomeric forms of anil derivatives: A Monte Carlo/quantum mechanics study Journal of Chemical Physics, 144 (23), art. 234511, (2016).
1300.	100.	Mohanani, K., Subhadrambika, N., Selwin Joseyphus, R., Swathy, S.S., Nisha, V.P. Synthesis, spectroscopic characterization, solid state d.c. electrical conductivity and biological studies of some lanthanide(III) chloride complexes with a heterocyclic Schiff base ligand Journal of Saudi Chemical Society, 20 (4), 379-390 (2016).
1301.	101.	Gandhimathi, S., Balakrishnan, C., Venkataraman, R., Neelakantan, M.A. Crystal structure, solvatochromism and estimation of ground and excited state dipole moments of an allyl arm containing Schiff base: Experimental and theoretical calculations Journal of Molecular Liquids, 219, 239-250 (2016).
1302.	102.	Panigrahi, S., Misra, P.K. The effect of solvent on electronic absorption bands of some Benzylideneanilines Journal of Molecular Liquids, 224, 53-61 (2016).
1303.	103.	Dubonosov, A.D., Bren, V.A., Minkin, V.I. Enolimine-Ketoenamine Tautomerism for Chemosensings Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 229-252 (2016).
1304.	104.	Romero Fernández, M. del P. Síntesis y estudio estructural de compuestos azometínicos derivados de malondialdehídos

		Tesis doctoral, Universidad de Extremadura (2016).
1305.	105.	El-Sonbati, A.Z., El-Bindary, A.A., Diab, M.A., Abou-Dobara, M.I., Abdo, E.E. Supramolecular structure, spectroscopic, thermal studies and antimicrobial activities of Schiff base complexes Research on Chemical Intermediates, 43 (2), 577-629 (2017).
1306.	106.	Pavlović, G., Katava, R., Rajić, M., Roje, V. On the zinc(II) and mercury(II) compounds with Schiff-base N-(p-anisoyl)-2-oxo-1-naphthylideneamine. Tautomerism of the ligand and polymerization of mercury compound via Hg...I contact Polyhedron, 123, 285-292 (2017).
1307.	107.	Rahman, F.-U., Ali, A., Khalil, S.K., Guo, R., Zhang, P., Wang, H., Li, Z.-T., Zhang, D.-W. Tuning sensitivity of a simple hydrazone for selective fluorescent "turn on" chemo-sensing of Al ³⁺ and its application in living cells imaging Talanta, 164, 307-313 (2017).
1308.	108.	Gao, A.-H., Wang, M.-S. Nonadiabatic ab initio molecular dynamics study of photoisomerization in N-salicylidene-methylfurylamine (SMFA) Journal of Chemical Physics, 146 (12), art. 124312, (2017).
1309.	109.	Ahmad, N., Subhan, F., Islam, N.U., Shahid, M., Rahman, F.U., Fawad, K. A Novel Pregabalin Functionalized Salicylaldehyde Derivative Afforded Prospective Pain, Inflammation, and Pyrexia Alleviating Propensities Archiv der Pharmazie, 350 (6), art. e201600365, (2017).
1310.	110.	Gao, A., Li, J., Wang, D., Ma, X., Wang, M. Nonadiabatic dynamics simulation of photoisomerization mechanism of the second stablest isomer of N-salicylidene-methylfurylamine Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 191, 315-324 (2018).
1311.	111.	Djedouani, A., Anak, B., Tabti, S., Cleymand, F., Françoise, M., Fleutote, S. Crystal structure and DFT study of the zwitterionic form of 3-[(E)-1-[(4-ethoxyphenyl)iminiumyl]ethyl]-6-methyl-2-oxo-2H-pyran-4-olate Acta Crystallographica Section E, 74 (2), 172-175 (2018).
1312.	112.	Zutterman, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B. Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
1313.	113.	Gao, A., Wang, M. The ketofienol photoisomerization of N-salicylidene-methylfurylamine: Nonadiabatic ab initio dynamics simulation International Journal of Quantum Chemistry, 118 (16), art. e25656 (2018).
1314.	114.	Yadav, P., Singh, A.K., Upadhyay, C., Singh, V.P. Photoluminescence behaviour of a stimuli responsive Schiff base: Aggregation induced emission and piezochromism Dyes and Pigments, 160, 731-739 (2019).
1315.	115.	Boulemche, H., Anak, B., Djedouani, A., Touzani, R., François, M., Fleutot, S., Rabilloud, F. Synthesis, X-ray crystallography, computational studies and catecholase activity of new zwitterionic Schiff base derivatives Journal of Molecular Structure, 1178, 606-616 (2019).
1316.	116.	Hureau, M., Moissette, A., Smirnov, K.S. A spectroscopic study of tautomeric equilibrium of salicylideneaniline in ZSM-5 zeolites Molecules, 24 (4), art. 795 (2019).
1317.	117.	Georgiev, A., Stoilova, A., Dimov, D., Yordanov, D., Zhivkov, I., Weiter, M. Synthesis and photochromic properties of some N-phthalimide azo-azomethine dyes. A DFT quantum mechanical calculations on imine-enamine tautomerism and trans-cis photoisomerization Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 210, 230-244

		(2019).
1318.	118.	Marrero-Carballo, R., Tun-Rosado, F., Mena-Rejón, G.J., Cáceres-Castillo, D., Barroso, J., Murillo, F., Merino, G., Quijano-Quiñones, R.F. The base-catalyzed keto-enol tautomerism of chrysophanol anthrone. A DFT investigation of the base-catalyzed reaction Molecular Simulation, 45 (9), 716-723 (2019).
1319.	119.	Rocha, M., Gil, D.M., Echeverriá, G.A., Piro, O.E., Jios, J.L., Ulic, S.E. Enol-imino-keto-enamine tautomerism in a diazepine derivative: How decisive are the intermolecular interactions in the equilibrium? Journal of Organic Chemistry, 84 (17), 11042-11053 (2019).
1320.	120.	Kaştaş, G., Albayrak Kaştaş, Ç., Tabak, A. Investigation of molecular structure and solvent/temperature effect on tautomerism in (E)-4,6-dibromo-3-methoxy-2-[(p-tolylimino)methyl]phenol, a new thermochromic Schiff base, by using XRD, FT-IR, UV-vis, NMR and DFT methods Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 222, art. 117198 (2019).
1321.	121.	Georgiev, A., Todorov, P., Dimov, D. Excited state proton transfer and E/Z photoswitching performance of 2-hydroxy-1-naphthalene and 1-naphthalene 5,5' -dimethyl- and 5,5' -diphenylhydantoin Schiff bases Journal of Photochemistry and Photobiology A: Chemistry, 386, art. 112143 (2020).
1322.	122.	Dobosz, R., Mucko, J., Gawinecki, R. Using Chou's 5-step rule to evaluate the stability of tautomers: Susceptibility of 2-[(phenylimino)-methyl] -cyclohexane-1,3-diones to tautomerization based on the calculated gibbs free energies Energies, 13 (1), art. 183 (2020).
1323.	123.	Panja, S.K. J-type aggregation and thermochromic behavior of a schiff base in solution: Role of keto-enol tautomerization Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 229, art. 117860 (2020).
1324.	124.	Todorov, P., Georgieva, S., Peneva, P., Rusew, R., Shivachev, B., Georgiev, A. Experimental and theoretical study of bidirectional photoswitching behavior of 5,5' -diphenylhydantoin Schiff bases: Synthesis, crystal structure and kinetic approaches New Journal of Chemistry, 44 (35), 15081-15099 (2020).
1325.	125.	Mondal, A., Mukhopadhyay, S., Ahmmmed, E., Banerjee, S., Zangrando, E., Chattopadhyay, P. Understanding a thermoemissive ESIPT-based solid-state off-on switch as a dual-channel chemosensor in solid and solution phases: Detailed experimental and theoretical study Journal of Physical Chemistry C, 124 (33), 18181-18193 (2020).
1326.	126.	Guerraoui, A., Djedouani, A., Jeanneau, E., Boumaza, A., Alsalme, A., Zarrouk, A., Salih, K.S.M., Warad, I. Crystal structure and spectral of new hydrazine-pyran-dione derivative: DFT enol \leftrightarrow hydrazone tautomerization via zwitterionic intermediate, hirshfeld analysis and optical activity studies Journal of Molecular Structure, 1220, art. no. 128728 (2020).
1327.	127.	Nozha, S.G., Morgan, S.M., Ahmed, S.E.A., El-Mogazy, M.A., Diab, M.A., El-Sonbati, A.Z., Abou-Dobara, M.I. Polymer complexes. LXXIV. Synthesis, characterization and antimicrobial activity studies of polymer complexes of some transition metals with bis-bidentate Schiff base Journal of Molecular Structure, 1227, art. no. 129525 (2021).
1328.	128.	Salih, K.S.M., Shraim, A.M., Al-Mhini, S.R., Al-Soufi, R.E., Warad, I. New tetradentate Schiff base Cu(II) complexes: synthesis, physicochemical, chromotropism, fluorescence, thermal, and selective catalytic oxidation Emergent Materials, doi: 10.1007/s42247-021-00183-9 (2021).
1329.	129.	Theetharappan, M., Neelakantan, M.A. A Water-Soluble Schiff Base Turn-on Fluorescent Chemosensor for the Detection of Al ³⁺

		and Zn ²⁺ Ions at the Nanomolar Level: Application in Live-Cell Imaging Journal of Fluorescence, doi: 10.1007/s10895-021-02756-7 (2021).
C.31. A new dimeric Pd(III)Pd(II) complex with 7,7,8,8-tetracyanoquinodimethane. N.Mincheva, L.Ballester, L.Antonov & M.Mitewa; <i>Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry</i> , 30 , 1643-1651 (2000)		
1330.	1.	Svennebring, A. Fast Microwave-Enhanced Intra-, Pseudo-intra- and Intermolecular Heck Reactions Doctoral thesis, Uppsala University, Sweden (2006).
1331.	2.	Pandey, P.C., Singh, V., Kumari, S. Polyaniline-silica nanocomposite: Application in electrocatalysis of acetylthiocholine Ceramic Engineering and Science Proceedings, 32 (10), 221-234 (2011).
1332.	3.	Pandey, P.C., Singh, V. Electrochemical polymerization of aniline over tetracyanoquinodimethane encapsulated ormosil matrix: Application in the electrocatalytic oxidation of ascorbic acid and acetylthiocholine Analyst, 136 (7), 1472-1480 (2011).
C.32. Complexation properties of Schiff bases containing N-phenylaza-15-crown-5 moiety. L.Antonov, M.Vladimirova, E.Stanoeva, W.M.F.Fabian, L.Ballester & M.Mitewa; <i>Journal of Inclusion Phenomena</i> , 40 , 23-28 (2001)		
1333.	1.	Douhal, A., Roshal, A.D., Organero, J.A. Stepwise interactions, sodium ion photoejection and proton-transfer inhibition in a crown-ether and proton-transfer dye Chemical Physics Letters, 381 (3-4), 519-525 (2003).
1334.	2.	Lewis, J.D., Moore, J.N. Cation sensors containing a (bpy)Re(CO) ₃ group linked to an azacrown ether via an alkenyl or alkynyl spacer: Synthesis, characterisation, and complexation with metal cations in solution Journal of the Chemical Society. Dalton Transactions, 4 (9), 1376-1385 (2004).
1335.	3.	Kamada, K. Two-photon absorption activities of symmetric/asymmetric linear molecular systems containing AZO and diacetylene moieties as central π -bridge Molecular Crystals and Liquid Crystals, 415 , 157-167 (2004).
1336.	4.	Sazonov, P.K., Stolyarenko, V.Yu., Artamkina, G.A., Beletskaya, I.P. N,N'-Bis(acylvinylated) diaza-18-crown-6 ether as a lanthanide-selective macrocyclic complex-forming agent Russian Chemical Bulletin, 54 (1), 159-164 (2005).
1337.	5.	Sazonov, P.K., Artamkina, G.A., Beletskaya, I.P. N-aryl- and N-vinyldiaza-18-crown-6: Synthesis and complexing ability Russian Journal of Organic Chemistry, 42 (3), 438-447 (2006).
1338.	6.	Menon, S.K., Parikh, V.B. An embodiment on metal-complexation of crown ether schiff bases Reviews in Inorganic Chemistry, 28 (2), 89-159 (2008).
1339.	7.	Brandel, J., Sairenji, M., Ichikawa, K., Nabeshima, T. Remarkable Mg ²⁺ -selective emission of an azacrown receptor based on Ir(III) complex Chemical Communications, 46 (22), 3958-3960 (2010).
1340.	8.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
1341.	9.	Shamkhy, E., Al-Karkhi, I.H.T. Preparation of new schiff base derived from cyclohexylamine with piperonaldehyde and its Cu ²⁺ , Co ²⁺ and Rh ³⁺ metal complexes Oriental Journal of Chemistry, 27 (4), 1403-1408 (2011).
1342.	10.	Shamkhy, E.T., Al-Karkhi, I.H.T. Synthesis, characterization and spectroscopic studies of a novel 2-[(E)-[(2, 4-dichlorophenyl)imino]methyl]phenol schiff base and its metal complexes

		E-Journal of Chemistry, 9 (3), 1543-1549 (2012).
1343.	11.	Shamkhy, E.T., Al-Karkhi, I.H.T., Jaffar Al-Mulla, E.A. Preparation and characterization of a new SNO ligand derived from ethanebis(thioamide) and 2-hydroxybenzaldehyde, and its Cu(II), Co(II), and Rh(III) metal complexes Research on Chemical Intermediates, 39 (6), 2463-2471 (2013).
1344.	12.	Abass, H.H., Salih, R.A., Salih, A.A. Synthesis, characterization and biological activity of two phenol-schiff bases and formaldehyde resin Co (II) complexes Global Journal of Pure and Applied Chemistry Research, 3 (2), 14-23 (2015).
1345.	13.	Maher, K., Mohammed, S. Crown ether schiff bases and their complexes: Recent advances (a review) Oriental Journal of Chemistry, 34 (4), 1701-1718 (2018).
1346.	14.	Angelova, S. Complexation of IA and IIA group metal ions by N-phenylaza-15-crown-5 containing Schiff bases: A DFT study Inorganica Chimica Acta, 487, 316-321 (2019).
1347.	15.	Zahan, M. K.-E., Hossen, M. F., Zamir, R., & Asraf, M. A. Antimicrobial Activities of Co(II) and Sb(III) Complexes of a Schiff Base Derived from S-benzylidithiocarbazate (SBDTC) and Cinnamaldehyde Journal of Materials Science Research and Reviews, 6 (1), 10-20 (2020).
1348.	16.	Sarker, D., Hossen, M. F., Kudrat-E-Zahan, M., Haque, M. M., Zamir, R., & Asraf, M. A. Cu (II) Complex of 1- Naphthaldehyde Semicarbazone: Synthesis, Characterization, Thermal Analysis and Antibacterial Activity Asian Journal of Advanced Research and Reports, 10 (1), 1-9 (2020).
1349.	17.	Asraf, A., Sarker, D., Hossen, F., Haque, M., Zahan, K. Molecular Computation and Antibacterial Activity of Cu (II) Complex of Naphthaldehyde Thiosemicarbazone American Journal of Pure and Applied Biosciences, 2 (3), 85-93 (2020).
C.33. Temperature dependent absorption spectroscopy of some tautomeric azodyes and Schiff bases. H.Joshi, F.S.Kamounah, G.van der Zwan, C.Gooijer & L.Antonov; <i>Journal of The Chemical Society Perkin Transactions 2</i> , 2303-2308 (2001)		
1350.	1.	Abraham, M.H., Amin, M., Zissimos, A.M. The lipophilicity of Sudan I and its tautomeric forms Physical Chemistry Chemical Physics, 4 (23), 5748-5752 (2002).
1351.	2.	Ünver, H., Polat, K., Uqar, M., Zengin, D.M. Synthesis and keto-enol tautomerism in N-(2-hydroxy-1-naphthylidene)anils Spectroscopy Letters, 36 (4), 287-301 (2003).
1352.	3.	Ohshima, A., Momotake, A., Arai, T. Photochromism, thermochromism, and solvatochromism of naphthalene-based analogues of salicylideneaniline in solution Journal of Photochemistry and Photobiology A: Chemistry, 162 (2-3), 473-479 (2004).
1353.	4.	Abbott, L.C., Batchelor, S.N., Oakes, J., Smith, J.R.L., Moore, J.N. Spectroscopic studies of the intermolecular interactions of a bis-azo dye, direct blue 1, on di- and trimerization in aqueous solution and in cellulose Journal of Physical Chemistry B, 108 (36), 13726-13735 (2004).
1354.	5.	Rădițoiu, V., Wagner, L., Rădițoiu, A., Grigoriu, N., Tărbășanu-Mihăilă, C. Sinteza, structura și culoarea unor cromogeni 2-hidroxiiazometinici termosensitivi (2005) Revista de Chimie, 56 (3), 233-238 (2005).
1355.	6.	Kao, T.-L., Wang, C.-C., Pan, Y.-T., Shiao, Y.-J., Yen, J.-Y., Shu, C.-M., Lee, G.-H., Peng, S.-M., Chung, W.-S. Upper rim allyl- and arylazo-coupled calix[4]arenes as highly sensitive chromogenic sensors for Hg ²⁺ Ion Journal of Organic Chemistry, 70 (8), 2912-2920 (2005).
1356.	7.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry

		Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
1357.	8.	Panea, I., Pelea, M., Silberg, I.A. Azocoupling products VI.11Part V, see reference [32]. The sensitivity to external factors of the UV-vis absorption spectra of the azocoupling product between 1-(4-hydroxy-6-methylpyrimidin-2-yl)-3-methylpyrazolin-5-one and 4-(N,N-dimethyl) aminobenzenediazonium salt Dyes and Pigments, 74 (1), 113-122 (2006).
1358.	9.	Ünver, H., Karakaş, A., Çolak, N., Çakir, B., Yüksel, H., Zengin, D.M. Spectroscopic properties of 4-halo-2-(4-chlorophenyliminomethyl)phenol and 4-halo-2-(4-bromophenyliminomethyl)phenol Asian Journal of Chemistry, 18 (3), 1935-1942 (2006).
1359.	10.	Karci, F., Şener, I., Demirçali, A., Burukoğlu, N. Reactions of aminoarylazopyrazoles with active methylene compounds. Part 1: Synthesis of 7-amino-3-arylazo-6-cyano-2-methylpyrazolo[5,1-c][1,2,4] triazines Coloration Technology, 122 (5), 264-269 (2006).
1360.	11.	Ohshima, A., Momotake, A., Arai, T. Substituent effects on the ground-state properties of naphthalene-based analogues of salicylideneaniline in solution Bulletin of the Chemical Society of Japan, 79 (2), 305-311 (2006).
1361.	12.	Wiznycia, A.V. The preparation and study of Bis(pyridyl-imine) and Monohelical salen-type complexes of iron and zinc PhD Thesis, Kansas State University (2006).
1362.	13.	Gawinecki, R., Kuczek, A., Kolehmainen, E., Ośmiałowski, B., Krygowski, T.M., Kauppinen, R. Influence of bond fixation in benzo-annulated N-salicylideneanilines and their ortho-C(=O)X derivatives (X = CH ₃ , NH ₂ , OCH ₃) on tautomeric equilibria in solution Journal of Organic Chemistry, 72 (15), 5598-5607 (2007).
1363.	14.	Asiri, A.M., Badahdah, K.O. Synthesis of some new anils: Part 1. Reaction of 2-hydroxy-benzaldehyde and 2-hydroxynaphthaldehyde with 2-aminopyridine and 2-aminopyrazine Molecules, 12 (8), 1796-1804 (2007).
1364.	15.	Allegretti, P.E., de las Mercedes Schiavoni, M., Castro, E.A., Furlong, J.J.P. Tautomeric Equilibria Studies by Mass Spectrometry World Journal of Chemistry 2 (2), 25-62 (2007).
1365.	16.	Furlong, J.J.P., Schiavoni, M.M., Castro, E.A., Allegretti, P.E. Mass spectrometry as a tool for studying tautomerism Russian Journal of Organic Chemistry, 44 (12), 1725-1736 (2008).
1366.	17.	Tezer, N., Karakus, N. Theoretical study on the ground state intramolecular proton transfer (IPT) and solvation effect in two Schiff bases formed by 2-aminopyridine with 2-hydroxy-1-naphthaldehyde and 2-hydroxy salicylaldehyde Journal of Molecular Modeling, 15 (3), 223-232 (2009).
1367.	18.	Filarowski, A., Koll, A., Sobczyk, L. Intramolecular hydrogen bonding in o-hydroxy aryl Schiff bases Current Organic Chemistry, 13 (2), 172-193 (2009).
1368.	19.	Bertolasi, V., Gilli, P., Gilli, G. Crystal chemistry and prototropic tautomerism in 2-(1-iminoalkyl)-phenols (or naphthols) and 2-diazenyl-phenols (or naphthols) Current Organic Chemistry, 13 (3), 250-268 (2009).
1369.	20.	Gil, M., Organero, J.A., Peris, E., García, H., Douhal, A. Confinement effect of nanocages and nanotubes of mesoporous materials on the keto forms photodynamics of Sudan I Chemical Physics Letters, 474 (4-6), 325-330 (2009).
1370.	21.	Gil, M., Wang, S., Organero, J.A., Teruel, L., Garcia, H., Douhal, A. Femtosecond dynamics within nanotubes and nanocavities of mesoporous and zeolite materials

		Journal of Physical Chemistry C, 113 (27), 11614-11622 (2009).
1371.	22.	Panea, I., Pelea, M., Coroş, M., Silaghi-Dumitrescu, L., Bâldea, I. The comparative study of the influences of the external factors on the UV-VIS absorption spectra of some potentially tautomeric azocoupling products Studia Universitatis Babes-Bolyai Chemia, 2, 15-31 (2009).
1372.	23.	Wiznycia, A.V., Desper, J., Levy, C.J. Zinc and iron complexes of a helix-directing (1R,2R)-cyclohexyl salen ligand with phenanthryl sidearms Canadian Journal of Chemistry, 87 (1), 224-231 (2009).
1373.	24.	Nedeltcheva, D., Kurteva, V., Damyanova, B., Popov, S. Gas - phase tautomerism in 1 - phenylazonaphthalene - 4 - ol: verification of the responses of individual tautomers Rapid Communications in Mass Spectrometry, 23 (11), 1724-1734 (2009).
1374.	25.	Wang, X., Lu, J., Shi, W., Li, F., Wei, M., Evans, D.G., Duan, X. A thermochromic thin film based on host - guest interactions in a layered double hydroxide Langmuir, 26 (2), 1247-1253 (2010).
1375.	26.	Nedeltcheva, D., Kurteva, V., Topalova, I. Gas-phase tautomerism in hydroxy azo dyes-from 4-phenylazo-1-phenol to 4-phenylazo-anthracen-1-ol Rapid Communications in Mass Spectrometry, 24 (6), 714-720 (2010).
1376.	27.	Prabhu, A.A.M., Venkatesh, G., Sankaranarayanan, R.K., Siva, S., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 4-amino-2', 3-dimethylazobenzene Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 49 (4), 407-417 (2010).
1377.	28.	Kenny, P.W., Taylor, P.J. The Prediction of Tautomer Preference in Aqueous Solution OpenEye Scientific Software (2010).
1378.	29.	Premakumari, J., Roy, G.A.G., Prabhu, A.A.M., Venkatesh, G., Subramanian, V.K., Rajendiran, N. Effect of solvents and ph on β -cyclodextrin inclusion complexation of 2,4-dihydroxyazobenzene and 4-hydroxyazobenzene Journal of Solution Chemistry, 40 (2), 327-347 (2011).
1379.	30.	Sliwa, M., Naumov, P., Choi, H.-J., Nguyen, Q.-T., Debus, B., Delbaere, S., Ruckebusch, C. Effects of a self-assembled molecular capsule on the ultrafast photodynamics of a photochromic salicylideneaniline guest ChemPhysChem, 12 (9), 1669-1672 (2011).
1380.	31.	Venkatesh, G., Prabhu, A.A.M., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 1-(2,4-diamino phenylazo) naphthalene and 4-aminoazobenzene Journal of Fluorescence, 21 (4), 1485-1497 (2011).
1381.	32.	Minkin, V.I., Tsukanov, A.V., Dubonosov, A.D., Bren, V.A. Tautomeric Schiff bases: lono-, solvato-, thermo- and photochromism Journal of Molecular Structure, 998 (1-3), 179-191 (2011).
1382.	33.	Abdel-Halim, S.T. Effect of solvent on absorption and fluorescence spectra of a typical fluorinated azo dye for its acidic and basic structures Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 82 (1), 253-259 (2011).
1383.	34.	Dincer, S. Studies of tautomerism in the azonaphthol derivatives of benzimidazoles Bulgarian Chemical Communications, 44 (1), 70-73 (2012).
1384.	35.	Yazdanbakhsh, M.R., Yousefi, H., Mamaghani, M., Moradi, E.O., Rassa, M., Pouramir, H., Bagheri, M. Synthesis, spectral characterization and antimicrobial activity of some new azo dyes

		derived from 4,6-dihydroxypyrimidine Journal of Molecular Liquids, 169, 21-26 (2012).
1385.	36.	Marwani, H.M., Asiri, A.M., Khan, S.A. Green-synthesis, characterization, photostability and polarity studies of novel Schiff base dyes using spectroscopic methods Russian Journal of Bioorganic Chemistry, 38 (5), 533-538 (2012).
1386.	37.	Graham, J.P., Rauf, M.A., Hisaindee, S., Nawaz, M. Experimental and theoretical study of the spectral behavior of Trypan Blue in various solvents Journal of Molecular Structure, 1040, 1-8 (2013).
1387.	38.	Karci, F., Karci, F. Synthesis and absorption abilities of pyrazolo[5,1-c][1,2,4]triazine-based disperse dyes Chemistry of Heterocyclic Compounds, 49 (3), 457-465 (2013).
1388.	39.	Silva, A.M.S., Silva, V.L.M., Claramunt, R.M., María, D.S., Ferraro, M.B., Reviriego, F., Alkorta, I., Elguero, J. The structures of two aldazines: [1,1' -(1E,1' E)-hydrazine-1,2- diylidenebis(methan-1-yl-1-ylidene)dinaphthalen-2-ol] (Lumogen) and 2,2' -(1E,1' E)-hydrazine-1,2- diylidenebis(methan-1-yl-1-ylidene) diphenol (salicylaldazine) in the solid state and in solution Magnetic Resonance in Chemistry, 51 (9), 530-540 (2013).
1389.	40.	Jakusová, K., Donovalová, J., Gáplovský, M., Cigáň, M., Stankovičová, H., Gáplovský, A. Self-association, tautomerism and E-Z isomerization of isatin- phenylsemicarbazones - Spectral study and theoretical calculations Journal of Physical Organic Chemistry, 26 (10), 805-813 (2013).
1390.	41.	Shah, A., Shah, A.A. Spectroscopic Studies and Keto-Enol Tautomeric Effect of Newer Schiff Bases of ortho-Hydroxy-benzaldehyde/naphthaldehyde with 1,2-Phenylenediamine and 4-Aminophenyl Ether Asian Journal of Chemistry, 25 (8), 4215-4218 (2013).
1391.	42.	Rajendiran, N., Venkatesh, G., Sankaranarayanan, R.K. Encapsulation of thiazolyazoresorcinol and thiazolyazocresol dyes with α - And β -cyclodextrin cavities: Spectral and molecular modeling studies Journal of Molecular Structure, 1072 (1), 242-252 (2014).
1392.	43.	Mansouri, L., Zouchoune, B. Substitution effects and electronic properties of the azo dye (1-phenylazo-2-naphthol) species: A TD-DFT electronic spectra investigation Canadian Journal of Chemistry, 93 (5), 509-517 (2014).
1393.	44.	Irshaidat, T. Molecular properties and H-bonding in N-8-quinolinyl-2-hydroxynaphthalaldimine and its Azo-analogue Journal of the Chemical Society of Pakistan, 36 (6), 1071-1078 (2015).
1394.	45.	Tiwari, K. Synthesis and Characterization of some Schiff Bases as Chemosensors for the Detection of Al ³⁺ and Water Content PhD Thesis, Banras Hindu University (2015).
1395.	46.	Patel, R.N., Singh, Y., Singh, Y.P., Butcher, R.J. Synthesis, crystal structure and DFT calculations of octahedral nickel(II) complexes derived from N'-[(E)-phenyl(pyridin-2-yl)methylidene] benzohydrazide Journal of Coordination Chemistry, 69 (15), 2377-2390 (2016).
1396.	47.	Dubonosov, A.D., Bren, V.A., Minkin, V.I. Enolimine-Ketoenamine Tautomerism for Chemosensings Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 229-252 (2016).
1397.	48.	Shaibu, O.R., Watkins, M.G. Synthesis and Characterization of Variously Substituted Hydroxybenzaldimines from the condensation of aniline or 1-aminonaphthalene with salicylaldehyde and its derivatives

		Ife Journal of Science, 18 (3), 613-622 (2016).
1398.	49.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
1399.	50.	Iwase, K., Toyama, Y., Yoshikawa, I., Yamamura, Y., Saito, K., Houjou, H. Insight into structural demand for cold crystallization of a small molecule. A case study for schiff base compounds that exhibit prototropic tautomerization Bulletin of the Chemical Society of Japan, 91 (4), 669-677 (2018).
1400.	51.	Zuterman, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B. Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
1401.	52.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
1402.	53.	Omotayo, I.A., Kolawole, O.A., Banjo, S. Thermodynamics and kinetics of hydrogen transfer mechanism in 1-[(E)-1, 3-benzothiazol-2-ylazo]naphthalen-2-ol tautomers in aqueous medium/density functional theory Iraqi Journal of Science, 60 (4), 677-687 (2019).
1403.	54.	Dobosz, R., Mucko, J., Gawinecki, R. Using Chou's 5-step rule to evaluate the stability of tautomers: Susceptibility of 2-[(phenylimino)-methyl] -cyclohexane-1,3-diones to tautomerization based on the calculated gibbs free energies Energies, 13 (1), art. 183 (2020).
C.34. Excited state intramolecular proton transfer in some tautomeric azodyes and Schiff bases containing an intramolecular hydrogen bond. H.Joshi, F.S.Kamounah, C.Gooijer, G.van der Zwan & L.Antonov; <i>Journal of Photochemistry and Photobiology A</i> , 152 , 183-191 (2002)		
1404.	1.	Ünver, H., Durlu, T.N. Crystal structure and conformational analysis of 1-[N-(2-bromophenyl)]naphthalimine Journal of Molecular Structure, 655 (3), 369-374 (2003).
1405.	2.	Ünver, H., Polat, K., Uqar, M., Zengin, D.M. Synthesis and keto-enol tautomerism in N-(2-hydroxy-1-naphthylidene)anils Spectroscopy Letters, 36 (4), 287-301 (2003).
1406.	3.	Víctor, V.C. Time-Resolved Fluorescence of Salicylideneaniline Compounds in Solution Journal of Physical Chemistry A, 108 (2), 281-288 (2004).
1407.	4.	Ohshima, A., Momotake, A., Arai, T. Photochromism, thermochromism, and solvatochromism of naphthalene-based analogues of salicylideneaniline in solution Journal of Photochemistry and Photobiology A: Chemistry, 162 (2-3), 473-479 (2004).
1408.	5.	Cui, Y., Spann, A.P., Couch, L.H., Gopee, N.V., Evans, F.E., Churchwell, M.I., Williams, L.D., Doerge, D.R., Howard, P.C. Photodecomposition of Pigment Yellow 74, a pigment used in tattoo inks Photochemistry and Photobiology, 80 (2), 175-184 (2004).
1409.	6.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry Journal of Molecular Structure, 749 (1-3), 36-44 (2005).
1410.	7.	Smitha, P., Asha, S.K., Pillai, C.K.S. Synthesis, characterization, and hyperpolarizability measurements of main-chain azobenzene molecules

		Journal of Polymer Science, Part A: Polymer Chemistry, 43 (19), 4455-4468 (2005).
1411.	8.	Douhal, A., Sanz, M., Tormo, L. Femtochemistry of orange II in solution and in chemical and biological nanocavities Proceedings of the National Academy of Sciences of the United States of America, 102 (52), 18807-18812 (2005).
1412.	9.	Habibi, M.H., Hassanzadeh, A., Zeini-Isfahani, A. Spectroscopic studies of Solophenyl red 3BL polyazo dye tautomerism in different solvents using UV-visible, ¹ H NMR and steady-state fluorescence techniques Dyes and Pigments, 69 (1-2), 93-101 (2006).
1413.	10.	Hassanzadeh, A., Zeini-Isfahani, A., Habibi, M.H., Heravi, M.R.A.P., Abdollahi-Alibeik, M. ¹ H, ¹³ C, NH, HH, CH COSY, HH NOESY NMR and UV-vis studies of Solophenyl red 3BL dye azo-hydrazone tautomerism in various solvents Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 63 (2), 247-254 (2006).
1414.	11.	Ünver, H., Yildiz, M., Kiraz, A., Iskeleli, N.O., Erdönmez, A., Dülger, B., Durlu, T.N. Spectroscopic studies, antimicrobial activities, and crystal structure of N-[2-hydroxy-1-naphthylidene]3, 5-bis(trifluoromethyl)aniline Journal of Chemical Crystallography, 36 (3), 229-237 (2006).
1415.	12.	Ziołek, M., Kubicki, J., Maciejewski, A., Naskręcki, R., Grabowska, A. Enol-keto tautomerism of aromatic photochromic Schiff base N, N' -bis(salicylidene)- p -phenylenediamine: Ground state equilibrium and excited state deactivation studied by solvatochromic measurements on ultrafast time scale Journal of Chemical Physics, 124 (12), art. 124518, (2006).
1416.	13.	Poór, B., Michniewicz, N., Kállay, M., Buma, W.J., Kubinyi, M., Szemik-Hojniak, A., Deperasińska, I., Puszek, A., Zhang, H. Femtosecond studies of charge-transfer mediated proton transfer in 2-butylamino-6-methyl-4-nitropyridine N-oxide Journal of Physical Chemistry A, 110 (22), 7086-7091 (2006).
1417.	14.	Ünver, H., Karakaş, A., Çolak, N., Çakir, B., Yüksel, H., Zengin, D.M. Spectroscopic properties of 4-halo-2-(4-chlorophenyliminomethyl)phenol and 4-halo-2-(4-bromophenyliminomethyl)phenol Asian Journal of Chemistry, 18 (3), 1935-1942 (2006).
1418.	15.	Ohshima, A., Momotake, A., Arai, T. Substituent effects on the ground-state properties of naphthalene-based analogues of salicylideneaniline in solution Bulletin of the Chemical Society of Japan, 79 (2), 305-311 (2006).
1419.	16.	Liang, Z., Liu, Z., Jiang, L., Gao, Y. A new fluorescent chemosensor for copper(II) and molecular switch controlled by light Tetrahedron Letters, 48 (9), 1629-1632 (2007).
1420.	17.	Dinçalp, H., Toker, F., Durucasu, I., Avcibaşı, N., İcli, S. New thiophene-based azo ligands containing azo methine group in the main chain for the determination of copper(II) ions Dyes and Pigments, 75 (1), 11-24 (2007).
1421.	18.	Liu, X.-G., Feng, Y.-Q., Zhao, Y., Chen, H.-L., Li, X.-G. Synthesis, characterization and spectroscopic investigation of azo-porphyrins Dyes and Pigments, 75 (2), 413-419 (2007).
1422.	19.	Rodríguez-Córdoba, W., Zugazagoitia, J.S., Collado-Fregoso, E., Peon, J. Excited state intramolecular proton transfer in Schiff bases. Decay of the locally excited enol state observed by femtosecond resolved fluorescence Journal of Physical Chemistry A, 111 (28), 6241-6247 (2007).
1423.	20.	Asiri, A.M., Badahdah, K.O. Synthesis of some new anils: Part 1. Reaction of 2-hydroxy-benzaldehyde and 2-hydroxynaphthaldehyde with 2-aminopyridine and 2-aminopyrazine Molecules, 12 (8), 1796-1804 (2007).
1424.	21.	Allegretti, P.E., de las Mercedes Schiavoni, M., Castro, E.A., Furlong, J.J.P. Tautomeric Equilibria Studies by Mass Spectrometry

		World Journal of Chemistry 2 (2), 25-62 (2007).
1425.	22.	Ünver, H., Yildiz, M., Ocak, N., Durlu, T.N. Spectroscopic studies and crystal structure of 3-[(2-morpholinoethylimino) methyl]benzene-1,2-diol Journal of Chemical Crystallography, 38 (2), 103-108 (2008).
1426.	23.	Knyazhansky, M.I. Notes on the fluorescence and the nature of the photocoloured form in photochromic azomethines Polish Journal of Chemistry, 82 (4), 795-806 (2008).
1427.	24.	Kotova, O.V., Eliseeva, S.V., Averjushkin, A.S., Lepnev, L.S., Vaschenko, A.A., Rogachev, A.Yu., Vitukhnovskii, A.G., Kuzmina, N.P. Zinc(II) complexes with schiff bases derived from ethylenediamine and salicylaldehyde: The synthesis and photoluminescent properties Russian Chemical Bulletin, 57 (9), 1880-1889 (2008).
1428.	25.	Furlong, J.J.P., Schiavoni, M.M., Castro, E.A., Allegratti, P.E. Mass spectrometry as a tool for studying tautomerism Russian Journal of Organic Chemistry, 44 (12), 1725-1736 (2008).
1429.	26.	Ünver, H., Yildiz, M., Kiraz, A., Özgen, Ö. Spectroscopic studies and crystal structure of (Z)-6-[(2- hydroxyphenylamino)methylene]-2-methoxycyclohexa-2,4-dienone Journal of Chemical Crystallography, 39 (1), 17-23 (2009).
1430.	27.	Baçoğlu, A., Parlayan, S., Ocak, M., Alp, H., Kantekin, H., Özdemir, M., Ocak, U. Complexation of metal ions with the novel 2-hydroxy-1-naphthaldehyde-derived diamine Schiff base carrying a macrobicyclic moiety with N2O2S2 mixed donor in acetonitrile-dichloromethane Polyhedron, 28 (6), 1115-1120 (2009).
1431.	28.	Sun, W., Li, S., Hu, R., Qian, Y., Wang, S., Yang, G. Understanding solvent effects on luminescent properties of a triple fluorescent ESIPT compound and application for white light emission Journal of Physical Chemistry A, 113 (20), 5888-5895 (2009).
1432.	29.	Gil, M., Organero, J.A., Peris, E., García, H., Douhal, A. Confinement effect of nanocages and nanotubes of mesoporous materials on the keto forms photodynamics of Sudan I Chemical Physics Letters, 474 (4-6), 325-330 (2009).
1433.	30.	Gil, M., Wang, S., Organero, J.A., Teruel, L., Garcia, H., Douhal, A. Femtosecond dynamics within nanotubes and nanocavities of mesoporous and zeolite materials Journal of Physical Chemistry C, 113 (27), 11614-11622 (2009).
1434.	31.	Basu Baul, T.S., Das, P., Chandra, A.K., Mitra, S., Pyke, S.M. The synthesis, characterization and structures of some 4-[(E)-1-{2-hydroxy-5-[(E)-2-(aryl)-1-diazenyl]phenyl}methylidene)amino]benzoic acid Dyes and Pigments, 82 (3), 379-386 (2009).
1435.	32.	Liu, Z., Zhang, S., Xia, G., Liang, Z., Gao, Y. Synthesis and photochromic property of three novel calix[4]arene-schiff bases [Synthesis and photochromic property of three novel calix[4]arene-schiff bases] Chinese Journal of Organic Chemistry, 29 (11), 1799-1803 (2009).
1436.	33.	Zugazagoitia, J.S., Maya, M., Damián-Zea, C., Navarro, P., Beltran, H.I., Peon, J. Excited-state dynamics and two-photon absorption cross sections of fluorescent diphenyltin(IV) derivatives with schiff bases: A comparative study of the effect of chelation from the ultrafast to the steady-state time scale Journal of Physical Chemistry A, 114 (2), 704-714 (2010).
1437.	34.	Dinçalp, H., Yavuz, S., Hakli, O., Zafer, C., Özsoy, C., Durucasu, I., Içli, S. Optical and photovoltaic properties of salicylaldehyde-based azo ligands Journal of Photochemistry and Photobiology A: Chemistry, 210 (1), 8-16 (2010).
1438.	35.	Li, G.-Y., Zhao, G.-J., Liu, Y.U.-H., Han, K.E.-L.I., He, G.-Z. TD-DFT study on the sensing mechanism of a fluorescent chemosensor for fluoride:

		Excited-state proton transfer Journal of Computational Chemistry, 31 (8), 1759-1765 (2010).
1439.	36.	Antony Muthu Prabhu, A., Venkatesh, G., Rajendiran, N. Azo-hydrazo tautomerism and inclusion complexation of 1-phenylazo-2- naphthols with various solvents and β -cyclodextrin Journal of Fluorescence, 20 (4), 961-972 (2010).
1440.	37.	Minkin, V.I., Tsukanov, A.V., Dubonosov, A.D., Bren, V.A. Tautomeric Schiff bases: lono-, solvato-, thermo- and photochromism Journal of Molecular Structure, 998 (1-3), 179-191 (2011).
1441.	38.	Uzhinov, B.M., Khimich, M.N. Conformational effects in excited state intramolecular proton transfer of organic compounds Russian Chemical Reviews, 80 (6), 553-577 (2011).
1442.	39.	Aysha, T., Luňák Jr., S., Lyčka, A., Hrdina, R. Synthesis, absorption and fluorescence of hydrazone colorants based on pyrrolinone esters Dyes and Pigments, 91 (2), 170-176 (2011).
1443.	40.	Adegoke, O.A. Relative predominance of azo and hydrazone tautomers of 4-carboxyl-2,6-dinitrophenylazohydroxynaphthalenes in binary solvent mixtures Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 83 (1), 504-510 (2011).
1444.	41.	Yoopensuk, S., Tongying, P., Hansongnern, K., Pakawatchai, C., Saithong, S., Tantirungrotechai, Y., Leesakul, N. Photoactive azoimine dyes: 4-(2-Pyridylazo)-N,N-diethylaniline and 4-(2-pyridylazo)-N,N-dimethylaniline: Computational and experimental investigation Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 86, 538-546 (2012).
1445.	42.	Ghanadzadeh Gilani, A., Moghadam, M., Zakerhamidi, M.S., Moradi, E. Solvatochromism, tautomerism and dichroism of some azoquinoline dyes in liquids and liquid crystals Dyes and Pigments, 92 (3), 1320-1330 (2012).
1446.	43.	Dincer, S. Studies of tautomerism in the azonaphthol derivatives of benzimidazoles Bulgarian Chemical Communications, 44 (1), 70-73 (2012).
1447.	44.	Franckeviius, M., Vainoras, R., Marcos, M., Serrano, J.L., Gruodis, A., Galikova, N., Gulbinas, V. Tautomeric forms of PPI dendrimers functionalized with 4-(4'-ethoxybenzyloxy)salicylaldehyde chromophores Chemical Physics, 404, 2-8 (2012).
1448.	45.	Marwani, H.M., Asiri, A.M., Khan, S.A. Green-synthesis, characterization, photostability and polarity studies of novel Schiff base dyes using spectroscopic methods Russian Journal of Bioorganic Chemistry, 38 (5), 533-538 (2012).
1449.	46.	Khanmohammadi, H., Rezaeian, K. Thermally stable water insoluble azo-azomethine dyes: Synthesis, characterization and solvatochromic properties Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 97, 652-658 (2012).
1450.	47.	Jana, S., Dalapati, S., Guchhait, N. Proton transfer assisted charge transfer phenomena in photochromic schiff bases and effect of -NEt ₂ groups to the anil schiff bases Journal of Physical Chemistry A, 116 (45), 10948-10958 (2012).
1451.	48.	Khanmohammadi, H., Khodam, F. Solvatochromic and electrochemical properties of new thermally stable azo-azomethine dyes with N ₂ S ₂ O ₂ donor set of atoms

		Journal of Molecular Liquids, 177, 198-203 (2013).
1452.	49.	Satam, M.A., Raut, R.K., Sekar, N. Fluorescent azo disperse dyes from 3-(1,3-benzothiazol-2-yl)naphthalen-2-ol and comparison with 2-naphthol analogs Dyes and Pigments, 96 (1), 92-103 (2013).
1453.	50.	Sidir, I., Gülseven Sidir, Y., Berber, H., Taşal, E. A study on solvatochromism of some monoazo dye derivatives Journal of Molecular Liquids, 178, 127-136 (2013).
1454.	51.	Užarević, K., Pavlović, G., Cindrić, M. Mononuclear and polynuclear molybdenum(vi) complexes with the interchangeable coordination site Polyhedron, 52, 294-300 (2013).
1455.	52.	Zakerhamidi, M.S., Nejati, K., Golghasemi Sorkhabi, S., Saati, M. Substituent and solvent effects on the spectroscopic properties and dipole moments of hydroxyl benzaldehyde azo dye and related Schiff bases Journal of Molecular Liquids, 180, 225-234 (2013).
1456.	53.	Satam, M.A., Raut, R.K., Telore, R.D., Sekar, N. Fluorescent acid azo dyes from 3-(1,3-benzothiazol-2-yl)naphthalen-2-ol and comparison with 2-naphthol analogs Dyes and Pigments, 97 (1), 32-42 (2013).
1457.	54.	Singh, V.P., Tiwari, K., Mishra, M., Srivastava, N., Saha, S. 5-[(2-Hydroxynaphthalen-1-yl)methylene]amino]pyrimidine-2,4(1H,3H)-dione as Al ³⁺ selective colorimetric and fluorescent chemosensor Sensors and Actuators, B: Chemical, 182, 546-554 (2013).
1458.	55.	Shah, A., Shah, A.A. Spectroscopic studies and keto-enol tautomeric effect of newer schiff bases of ortho-hydroxybenzaldehyde/ naphthaldehyde with 1,2-phenylenediamine and 4-aminophenyl ether Asian Journal of Chemistry, 25 (8), 4215-4218 (2013).
1459.	56.	Aysha, T., Lyčka, A., Luňák Jr., S., Machalický, O., Elsedik, M., Hrdina, R. Synthesis and spectral properties of new hydrazone dyes and their Co(III) azo complexes Dyes and Pigments, 98 (3), 547-556 (2013).
1460.	57.	Filipczak, K., Karolczak, J., Lipkowski, P., Filarowski, A., Ziótek, M. Photochromic cycle of 2'-hydroxyacetophenone azine studied by absorption and emission spectroscopy in different solvents Journal of Chemical Physics, 139 (10), art. 104305, (2013).
1461.	58.	Gashnga, P.M., Singh, T.S., Baul, T.S.B., Mitra, S. Photophysical properties and excited state intramolecular proton transfer in 2-hydroxy-5-[(E)-(4-methoxyphenyl)diazenyl]benzoic acid in homogeneous solvents and micro-heterogeneous environments Journal of Luminescence, 148, 134-142 (2014).
1462.	59.	Subhasri, A., Anbuselvan, C. Facile, cost effective synthesis and DFT-based studies of substituted aryl hydrazones of β -diketones: A new selective fluorescent chemosensor for Co ²⁺ Analytical Methods, 6 (15), 5596-5609 (2014).
1463.	60.	Satam, M.A., Telore, R.D., Sekar, N. Photophysical properties of Schiff's bases from 3-(1,3-benzothiazol-2-yl)- 2-hydroxy naphthalene-1-carbaldehyde Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 132, 678-686 (2014).
1464.	61.	Subhasri, A., Anbuselvan, C. Highly selective arylhydrazone based "on-OFF" fluorescent chemosensors for Zn ²⁺ ion, inhibitors for KB cell RSC Advances, 5 (4), 2576-2585 (2015).
1465.	62.	Mikulich, V.S., Muravsky, A.I., Murauski, A.A., Agabekov, V.E. Effect of cis/trans-isomerisation on photoalignment of azo dyes

		Russian Journal of General Chemistry, 85 (3), art. 1667, 571-576 (2015).
1466.	63.	Zakerhamidi, M.S., Nejati, K., Alidousti, S., Saati, M. The interactional behaviors and photo-physical properties of azo-salicylaldehyde ligands in solvents media Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 150, 696-703 (2015).
1467.	64.	Elroby, S.A., Aboud, S., Aziz, S.G., Hilal, R. Substituent effects on the absorption and vibrational spectra of some 2-hydroxy Schiff bases: DFT/TDDFT, natural bond orbital and experimental study Journal of Structural Chemistry, 56 (3), 414-427 (2015).
1468.	65.	El-Bindary, A.A., Shoaib, A.F., El-Sonbati, A.Z., Diab, M.A., Abdo, E.E. Geometrical structure, molecular docking and potentiometric studies of Schiff base ligand Journal of Molecular Liquids, 212, art. 5158, 576-584 (2015).
1469.	66.	Tiwari, K. Synthesis and Characterization of some Schiff Bases as Chemosensors for the Detection of Al ³⁺ and Water Content PhD Thesis, Banras Hindu University (2015).
1470.	67.	George, L., Kunhikannan, A.K., Illathvalappil, R., Ottoor, D., Kurungot, S., Devi, R.N. Understanding the electron transfer process in ZnO-naphthol azobenzoic acid composites from photophysical characterisation Physical Chemistry Chemical Physics, 18 (32), 22179-22187 (2016).
1471.	68.	Shweta, Neeraj, Asthana, S.K., Mishra, R.K., Upadhyay, K.K. Design-specific mechanistic regulation of the sensing phenomena of two Schiff bases towards Al ³⁺ RSC Advances, 6 (60), 55430-55437 (2016).
1472.	69.	Svirikhin, M.S., Puzyk, M.V., Borisov, A.N. Spectral and luminescent properties of N,N'-bis(5-bromosalicylidene)-1,3-propylenediamine and its zinc complex Optics and Spectroscopy, 121 (3), 343-347 (2016).
1473.	70.	Berber, H., Ateş, N.A., Özkütük, M.Y. Synthesis, Characterization And Spectroscopic Studies On Tautomerism And Acidity Constants Of Certain 4-(Phenyldiazenyl) Benzene-1,3-Diol Derivatives Anadolu University Journal of Science and Technology B- Theoretical Sciences, 4 (1), 11-28 (2016).
1474.	71.	Wagner-Wysiecka, E., Szarmach, M., Chojnacki, J., Łukasik, N., Luboch, E. Cation sensing by diphenyl-azobenzocrowns Journal of Photochemistry and Photobiology A: Chemistry, 333, 220-232 (2017).
1475.	72.	Warde, U., Sekar, N. NLOphoric mono-azo dyes with negative solvatochromism and in-built ESIPT unit from ethyl 1,3-dihydroxy-2-naphthoate: Estimation of excited state dipole moment and pH study Dyes and Pigments, 137, 384-394 (2017).
1476.	73.	Alarcos, N., Cohen, B., Ziólek, M., Douhal, A. Photochemistry and Photophysics in Silica-Based Materials: Ultrafast and Single Molecule Spectroscopy Observation Chemical Reviews, 117 (22), 13639-13720 (2017).
1477.	74.	Muriel, W.A., Botero-Cadavid, J.F., Cárdenas, C., Rodríguez-Córdoba, W. A theoretical study of the photodynamics of salicylidene-2-anthrylamine in acetonitrile solution Physical Chemistry Chemical Physics, 20 (46), 29399-29411 (2018).
1478.	75.	Yuan, H., Feng, S., Wen, K., Guo, X., Zhang, J. The excited-state intramolecular proton transfer in N[π]H-type dye molecules with a seven-membered-ring intramolecular hydrogen bond: A theoretical insight Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 191, 421-426 (2018).
1479.	76.	Zuterman, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B.

		Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
1480.	77.	Panja, A., Ghosh, K. Azo and imine functionalized 2-naphthols: Promising supramolecular gelators for selective detection of Fe ³⁺ and Cu ²⁺ , reactive oxygen species and halides Materials Chemistry Frontiers, 2 (10), 1866-1875 (2018).
1481.	78.	Hsu, P.-F., Chen, Y. Synthesis of a Pyrene-Derived Schiff Base and Its Selective Fluorescent Enhancement by Zinc and Aluminum Ions International Journal of Organic Chemistry, 8 (2), 207-228 (2018).
1482.	79.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
1483.	80.	Georgiev, A., Stoilova, A., Dimov, D., Yordanov, D., Zhivkov, I., Weiter, M. Synthesis and photochromic properties of some N-phthalimide azo-azomethine dyes. A DFT quantum mechanical calculations on imine-enamine tautomerism and trans-cis photoisomerization Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 210, 230-244 (2019).
1484.	81.	Radi, M.F., Husain, S.S., Zaki, A.N.M., Sultan, A.A., Hamed, W.M., Khamis, W.M. Synthesis and characterization of some new schiff base compounds derived from 4-amino benzoic acid and study their biological activity Research Journal of Pharmacy and Technology, 12 (5), 2207-2212 (2019).
1485.	82.	Maulén, B., Echeverri, A., Gómez, T., Fuentealba, P., Cárdenas, C. Electron Localization Function in Excited States: The Case of the Ultrafast Proton Transfer of the Salicylidene Methylamine Journal of Chemical Theory and Computation, 15 (10), 5532-5542 (2019).
1486.	83.	Ramugade, S.H., Warde, U.S., Sekar, N. Azo dyes with ESIPT core for textile applications and DFT study Dyes and Pigments, 170, art. 107626 (2019).
1487.	84.	Mishra, V.R., Ghanavatkar, C.W., Sekar, N. ESIPT clubbed azo dyes as deep red emitting fluorescent molecular rotors: Photophysical properties, pH study, viscosity sensitivity, and DFT studies Journal of Luminescence, 215, art. 116689 (2019).
1488.	85.	Vhanale, B.T., Deshmukh, N.J., Shinde, A.T. Synthesis, characterization, spectroscopic studies and biological evaluation of Schiff bases derived from 1-hydroxy-2-acetonaphthanone Heliyon, 5 (11), art. e02774 (2019).
1489.	86.	Lawrence, M.A.W., Lorraine, S.C., Wilson, K.-A., Wilson, K. Review: Voltammetric properties and applications of hydrazones and azo moieties Polyhedron, 173, art. 114111 (2019).
1490.	87.	Georgiev, A., Todorov, P., Dimov, D. Excited state proton transfer and E/Z photoswitching performance of 2-hydroxy-1-naphthalene and 1-naphthalene 5,5' -dimethyl- and 5,5' -diphenylhydantoin Schiff bases Journal of Photochemistry and Photobiology A: Chemistry, 386, art. 112143 (2020).
1491.	88.	Todorov, P., Georgieva, S., Peneva, P., Rusew, R., Shivachev, B., Georgiev, A. Experimental and theoretical study of bidirectional photoswitching behavior of 5,5' -diphenylhydantoin Schiff bases: Synthesis, crystal structure and kinetic approaches New Journal of Chemistry, 44 (35), 15081-15099 (2020).
1492.	89.	Saleh, F.M., Hassaneen, H.M., Mohamed, M.F., Mohamed, Y.S. Synthesis, cytotoxicity and docking simulation of novel annulated dihy-droisoquinoline heterocycles Mini-Reviews in Medicinal Chemistry, 20 (12), 1062-1071 (2020).

1493.	90.	Karakurt, T., Dincer, M., Cukurovali, A. Syntheses, spectral characterization, single crystal X-ray diffraction and computational in gas and solid phases studies on chloro- acetic acid N'-(2- hydroxy-naphthalen- 1-ylmethylene)- N- [4-(3-methyl-3-phenyl-cyclobutyl)-thiazol-2-yl]-hydrazide SN Applied Sciences, 2 (4), 580 (2020).
1494.	91.	Diana, R., Caruso, U., Piotta, S., Concilio, S., Shikler, R., Panunzi, B. Spectroscopic behaviour of two novel azobenzene fluorescent dyes and their polymeric blends Molecules, 25 (6), art. no. 1368 (2020).
1495.	92.	Darugar, V., Vakili, M., Tayyari, S.F. Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach Optik, 236, art. no. 166475 (2021).
1496.	93.	Alsoghier, H.M., Abdallah, M., Rageh, H.M., Salman, H.M.A., Selim, M.A., Santos, M.A., Ibrahim, S.A. NMR spectroscopic investigation of benzothiazolylacetonitrile azo dyes: CR7 substitution effect and semiempirical study Results in Chemistry, 3, art. no. 100088 (2021).
1497.	94.	Sekar, N., Shinde, S. Comparative studies of excited state intramolecular proton transfer (ESIPT) and azohydrazone tautomerism in naphthalene-based fluorescent acid azo dyes by computational study Physical Sciences Reviews, doi:10.1515/psr-2019-0130 (2021).
1498.	95.	Angelin, E.M., Oliveira, M.C., Nevin, A., Picollo, M., Melo, M.J. To be or not to be an azo pigment: chemistry for the preservation of historical β -naphthol reds in cultural heritage Dyes and Pigments, 190, art. no. 109244 (2021)
C.35. Quantitative analysis of undefined mixtures – “Fishing net” algorithm. L.Antonov & V.Petrov; <i>Analytical and Bioanalytical Chemistry</i> , 374 , 1312-1317 (2002)		
1499.	1.	Nagy, P.I., Fabian, W.M.F. Theoretical study of the enol imine \leftrightarrow enamionone tautomeric equilibrium in organic solvents Journal of Physical Chemistry B, 110 (49), 25026-25032 (2006).
1500.	2.	Gao, F., Zhang, H., Guo, L., Garland, M. Application of the BTEM family of algorithms to reconstruct individual UV-Vis spectra from multi-component mixtures Chemometrics and Intelligent Laboratory Systems, 95 (1), 94-100 (2009).
1501.	3.	Tan, S.-T., Zhu, H., Chew, W. Self-modeling curve resolution of multi-component vibrational spectroscopic data using automatic band-target entropy minimization (AutoBTEM) Analytica Chimica Acta, 639 (1-2), 29-41 (2009).
1502.	4.	Prabhu, A.A.M., Venkatesh, G., Sankaranarayanan, R.K., Siva, S., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 4-amino-2', 3-dimethylazobenzene Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 49 (4), 407-417 (2010).
1503.	5.	Limón, P.M., Gavara, R., Pina, F. Thermodynamics and kinetics of cyanidin 3-glucoside and caffeine copigments Journal of Agricultural and Food Chemistry, 61 (22), 5245-5251 (2013).
1504.	6.	De, S., Ray, M., Pati, A.Y., Das, P.K. Base triggered enhancement of first hyperpolarizability of a keto-enol tautomer Journal of Physical Chemistry B, 117 (48), 15086-15092 (2013).
1505.	7.	Oliveira, J., Brás, N.F., Da Silva, M.A., Mateus, N., Parola, A.J., De Freitas, V. Grape anthocyanin oligomerization: A putative mechanism for red color stabilization? Phytochemistry, 105, 178-185 (2014).
1506.	8.	Pina, F.

		Thermodynamic and Kinetic Processes of Anthocyanins and Related Compounds and their Bio-Inspired Applications Recent Advances in Polyphenol Research, 4, 341-370 (2014).
1507.	9.	Castet, F., Champagne, B. Switching of the Nonlinear Optical Responses of Anil Derivatives: From Dilute Solutions to the Solid State Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 175-202 (2016).
1508.	10.	Jędrzejczak, M., Wojciechowski, K. A numerical method of analyzing the composition of colored wastewater from dyeing plant International Journal of Environmental Science and Technology, doi: 10.1007/s13762-021-03208-2 (2021).
C.36. Estimation of two-photon absorption characteristics by a global fitting procedure. L.Antonov, K.Kamada & K.Ohta; <i>Applied Spectroscopy</i> , 56 , 1508-1511 (2002)		
1509.	1.	Ajami, A., Husinsky, W., Liska, R., Pucher, N. Two-photon absorption cross section measurements of various two-photon initiators for ultrashort laser radiation applying the Z-scan technique Journal of the Optical Society of America B: Optical Physics, 27 (11), 2290-2297 (2010).
1510.	2.	Li, L., Wu, Y., Wang, Y. Nonlinear two-photon absorption properties induced by femtosecond laser with the films of two novel anthracene derivatives Chinese Optics Letters, 10 (10), art. 101602, (2012).
1511.	3.	Aparicio-Ixta, L., Rodriguez, M., Ramos-Ortiz, G. Organic nanomaterials with two-photon absorption properties for biomedical applications Contemporary Optoelectronics: Materials, Metamaterials and Device Applications, 25-50 (2015).
1512.	4.	Aparicio-Ixta, L., Rodriguez, M., Ramos-Ortiz, G. Organic nanomaterials with two-photon absorption properties for biomedical applications Springer Series in Optical Sciences, 199, 25-50 (2016).
C.37. A systematic femtosecond study on the two-photon absorbing D- π -A molecules - π -bridge nitrogen inseption and strength of the donor and acceptor groups. L.Antonov, K.Kamada, K.Ohta & F.S.Kamounah; <i>Physical Chemistry Chemical Physics</i> , 5 , 1193-1197 (2003)		
1513.	1.	Pond, S.J. Two-photon spectroscopy of conjugated organic chromophores Dissertation, The University of Arizona (2003).
1514.	2.	Porrès, L., Mongin, O., Katan, C., Charlot, M., Pons, T., Mertz, J., Blanchard-Desce, M. Enhanced Two-Photon Absorption with Novel Octupolar Propeller-Shaped Fluorophores Derived from Triphenylamine Organic Letters, 6 (1), 47-50 (2004).
1515.	3.	Porrès, L., Katan, C., Mongin, O., Pons, T., Mertz, J., Blanchard-Desce, M. Two-photon absorption and fluorescence in nanoscale multipolar chromophores: Effect of dimensionality and charge-symmetry Journal of Molecular Structure, 704 (1-3), 17-24 (2004).
1516.	4.	Andrade, A.A., Yamaki, S.B., Misoguti, L., Zilio, S.C., Atvars, T.D.Z., Oliveira Jr., O.N., Mendonça, C.R. Two-photon absorption in diazobenzene compounds Optical Materials, 27 (3), 441-444 (2004).
1517.	5.	Porrès, L., Mongin, O., Katan, C., Charlot, M., Bhatthula, B.K.G., Jouikov, V., Pons, T., Mertz, J., Blanchard-Desce, M. Two-photon absorption and fluorescence with quadrupolar and branched chromophores - Effect of structure and branching Journal of Nonlinear Optical Physics and Materials, 13 (3-4), 451-460 (2004).
1518.	6.	Mongin, O., Chariot, M., Katan, C., Porrès, L., Parent, M., Pons, T., Mertz, J., Blanchard-Desce, M. Nanoscale multipolar chromophores for optical limiting in the visible-NIR range based on

		multiphoton absorption Proceedings of SPIE - The International Society for Optical Engineering, 5516, art. 02, 9-20 (2004).
1519.	7.	Mendonça, C.R., Misoguti, L., Zílio, S.C., De Boni, L. Measurement and modeling of two-photon absorption spectrum in azoaromatic compounds Optics InfoBase Conference Papers, (2005).
1520.	8.	Ogawa, K., Dy, J., Kobuke, Y. Substituent effect on two-photon absorption properties of conjugated porphyrins Journal of Porphyrins and Phthalocyanines, 9 (10-11), 735-744 (2005).
1521.	9.	Day, P.N., Nguyen, K.A., Pachter, R. TDDFT study of one- and two-photon absorption properties: Donor- π -acceptor chromophores Journal of Physical Chemistry B, 109 (5), 1803-1814 (2005).
1522.	10.	Chariot, M., Porrès, L., Entwistle, C.D., Beeby, A., Marder, T.B., Blanchard-Desce, M. Investigation of two-photon absorption behavior in symmetrical acceptor- π -acceptor derivatives with dimesitylboryl end-groups. Evidence of new engineering routes for TPA/transparency trade-off optimization Physical Chemistry Chemical Physics, 7 (4), 600-606 (2005).
1523.	11.	De Boni, L., Misoguti, L., Zílio, S.C., Mendonça, C.R. Degenerate two-photon absorption spectra in azoaromatic compounds ChemPhysChem, 6 (6), 1121-1125 (2005).
1524.	12.	Chung, S.-J., Rumi, M., Alain, V., Barlow, S., Perry, J.W., Marder, S.R. Strong, low-energy two-photon absorption in extended amine-terminated cyano-substituted phenylenevinylene oligomers Journal of the American Chemical Society, 127 (31), 10844-10845 (2005).
1525.	13.	Kwon, O., Barlow, S., Odom, S.A., Beverina, L., Thompson, N.J., Zojer, E., Brédas, J.-L., Marder, S.R. Aromatic amines: A comparison of electron-donor strengths Journal of Physical Chemistry A, 109 (41), 9346-9352 (2005).
1526.	14.	Mendonça, C.R., Misoguti, L., Zílio, S.C., De Boni, L. Measurement and modeling of two-photon absorption spectrum in azoaromatic compounds Quantum Electronics and Laser Science Conference (QELS), 2, art. JWB35, 1274-1276 (2005).
1527.	15.	Lee, S., Thomas, K.R.J., Thayumanavan, S., Bardeen, C.J. Dependence of the two-photon absorption cross section on the conjugation of the phenylacetylene linker in dipolar donor-bridge-acceptor chromophores Journal of Physical Chemistry A, 109 (43), 9767-9774 (2005).
1528.	16.	Katan, C., Terenziani, F., Droumaguet, C.L., Mongin, O., Werts, M.H.V., Tretiak, S., Blanchard-Desce, M. Branching of dipolar chromophores: Effects on linear and nonlinear optical properties Proceedings of SPIE - The International Society for Optical Engineering, 5935, art. 593503, 1-15 (2005).
1529.	17.	Mendonça, C.R., Misoguti, L., Zílio, S.C., De Boni, L. Measurement and modeling of two-photon absorption spectrum in azoaromatic compounds Optics InfoBase Conference Papers, (2006).
1530.	18.	Zhan, C., Li, Y., Li, D., Wang, D., Nie, Y. Multi-photon absorption and optical limiting from six stilbazolium derivatives: Donor influences Optical Materials, 28 (3), 289-293 (2006).
1531.	19.	Kobuke, Y. Porphyrin supramolecules by self-complementary coordination Structure and Bonding, 121, 49-104 (2006).
1532.	20.	Morley, J.O., Whittaker, S.D.

		Non-linear optical properties of thienylmethylene anilines and benzylidene aminothiophenes Journal of Molecular Structure: THEOCHEM, 760 (1-3), 1-13 (2006).
1533.	21.	Ogawa, K., Kobuke, Y. Construction and photophysical properties of self-assembled linear porphyrin arrays Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 7 (1), 1-16 (2006).
1534.	22.	Terenziani, F., Morone, M., Gmouh, S., Blanchard-Desce, M. Linear and two-photon absorption properties of interacting polar chromophores: Standard and unconventional effects ChemPhysChem, 7 (3), 685-696 (2006).
1535.	23.	Tanihara, J., Ogawa, K., Kobuke, Y. Two-photon absorption properties of conjugated supramolecular porphyrins with electron donor and acceptor Journal of Photochemistry and Photobiology A: Chemistry, 178 (2-3 SPEC. ISS.), 140-149 (2006).
1536.	24.	Cardoso, M.R., Neves, U.M., Misoguti, L., Ye, Z., Bu, X.R., Mendonça, C.R. One- and two-photon induced birefringence in Salen dye cast films Optical Materials, 28 (8-9), 1118-1122 (2006).
1537.	25.	Strehmel, B., Strehmel, V. Two-Photon Physical, Organic, and Polymer Chemistry: Theory, Techniques, Chromophore Design, and Applications Advances in Photochemistry, 29, 111-354 (2006).
1538.	26.	Yao, S., Schafer-Hales, K.J., Cohanoschi, I., Hernández, F.E., Belfield, K.D. A water-soluble diaminostilbene derivative as a two-photon fluorescent probe Synlett, (12), 1863-1866 (2006).
1539.	27.	Day, P.N., Nguyen, K.A., Pachter, R. Calculation of two-photon absorption spectra of donor- π -acceptor compounds in solution using quadratic response time-dependent density functional theory Journal of Chemical Physics, 125 (9), art. 094103, (2006).
1540.	28.	Terenziani, F., Le Droumaguet, C., Mongin, O., Katan, C., Blanchard-Desce, M. Branching of substituted push-pull polyenes for enhanced two-photon absorption Nonlinear Optics Quantum Optics, 35 (1-3), 69-81 (2006).
1541.	29.	Terenziani, F., Painelli, A., Katan, C., Charlot, M., Blanchard-Desce, M. Charge instability in quadrupolar chromophores: Symmetry breaking and solvatochromism Journal of the American Chemical Society, 128 (49), 15742-15755 (2006).
1542.	30.	Nguyen, K.A., Rogers, J.E., Slagle, J.E., Day, P.N., Kannan, R., Tan, L.-S., Fleitz, P.A., Pachter, R. Effects of conjugation in length and dimension on spectroscopic properties of fluorene-based chromophores from experiment and theory Journal of Physical Chemistry A, 110 (49), 13172-13182 (2006).
1543.	31.	Kolb, J.S. MCD-Spektroskopie eines LD-LISC-Komplexes Dissertation, Johann Wolfgang Goethe-Universität in Frankfurt am Main (2006).
1544.	32.	Agnew, A. Quantum-Chemical Investigations of Second- and Third-Order Nonlinear Optical Chromophores for Electro-Optic and All-Optical Switching Applications Dissertation, Georgia Institute of Technology (2006).
1545.	33.	Inaba, Y., Ogawa, K., Kobuke, Y. Syntheses and properties of acetylene-linked bis- and trisporphyrins toward two-photon photodynamic therapy Journal of Porphyrins and Phthalocyanines, 11 (5-6), 406-417 (2007).
1546.	34.	Ogawa, K., Hara, C., Kobuke, Y. Syntheses and nonlinear absorption properties of conjugated porphyrin supramolecules Journal of Porphyrins and Phthalocyanines, 11 (5-6), 359-367 (2007).
1547.	35.	Barlow, S., Marder, S.R.

		Nonlinear Optical Properties of Organic Materials Functional Organic Materials: Syntheses, Strategies and Applications, 393-437 (2007).
1548.	36.	Zheng, S., Leclercq, A., Fu, J., Beverina, L., Padilha, L.A., Zojer, E., Schmidt, K., Barlow, S., Luo, J., Jiang, S.-H., Jen, A.K.-Y., Yi, Y., Shuai, Z., Van Stryland, E.W., Hagan, D.J., Brédas, J.-L., Marder, S.R. Two-photon absorption in quadrupolar bis(acceptor)-terminated chromophores with electron-rich bis(heterocycle)vinylene bridges Chemistry of Materials, 19 (3), 432-442 (2007).
1549.	37.	Mongin, O., Porrès, L., Charlot, M., Katan, C., Blanchard-Desce, M. Synthesis, fluorescence, and two-photon absorption of a series of elongated rodlike and banana-shaped quadrupolar fluorophores: A comprehensive study of structure-property relationships Chemistry - A European Journal, 13 (5), 1481-1498 (2007).
1550.	38.	Neves, U.M., De Boni, L., Ye, Z., Bu, X.R., Mendonça, C.R. Two-photon absorption spectra of Salen dye complexes with azo dyes Chemical Physics Letters, 441 (4-6), 221-225 (2007).
1551.	39.	Gong, Y., Guo, X., Wang, S., Su, H., Xia, A., He, Q., Bai, F. Photophysical properties of photoactive molecules with conjugated push-pull structures Journal of Physical Chemistry A, 111 (26), 5806-5812 (2007).
1552.	40.	Das, S., Nag, A., Sadhu, K.K., Goswami, D., Bharadwaj, P.K. Metal induced enhancement of fluorescence and modulation of two-photon absorption cross-section with a donor-acceptor-acceptor-donor receptor Journal of Organometallic Chemistry, 692 (22), 4969-4977 (2007).
1553.	41.	Day, P.N., Nguyen, K.A., Pachter, R. Organic materials for multiphoton absorption: Time-dependent density functional theory calculations Department of Defense - Proceedings of the HPCMP Users Group Conference 2007; High Performance Computing Modernization Program: A Bridge to Future Defense, DoD HPCMP UGC, art. 4437985, 200-204 (2007).
1554.	42.	Wang, J. Two-photon Induced Photochemistry Dissertation, The University of Arizona (2007).
1555.	43.	Mendonca, C.R., Cerami, L.R., Shih, T., Tilghman, R.W., Baldacchini, T., Mazur, E. Femtosecond laser waveguide micromachining of PMMA films with azoaromatic chromophores Optics Express, 16 (1), 200-206 (2008).
1556.	44.	Drobizhev, M., Makarov, N.S., Rebane, A., De La Torre, G., Torres, T. Strong two-photon absorption in Push - Pull phthalocyanines: Role of resonance enhancement and permanent dipole moment change upon excitation Journal of Physical Chemistry C, 112 (3), 848-859 (2008).
1557.	45.	Mendonca, C.R., Correa, D.S., Baldacchini, T., Tayalia, P., Mazur, E. Two-photon absorption spectrum of the photoinitiator Lucirin TPO-L Applied Physics A: Materials Science and Processing, 90 (4), 633-636 (2008).
1558.	46.	Schmidt, K., Leclercq, A., Zojer, E., Lawson, P.V., Jang, S.-H., Barlow, S., Jen, A.K.-Y., Marder, S.R., Bredas, J.-L. Order of magnitude effects of thiazole regioisomerism on the near-IR two-photon cross-sections of dipolar chromophores Advanced Functional Materials, 18 (5), 794-801 (2008).
1559.	47.	Correa, D.S., Cardoso, M.R., Gonçalves, V.C., Balogh, D.T., De Boni, L., Mendonça, C.R. Optical birefringence induced by two-photon absorption in polythiophene bearing an azochromophore Polymer, 49 (6), 1562-1566 (2008).
1560.	48.	Ogawa, K., Kobuke, Y. Recent advances in two-photon photodynamic therapy Anti-Cancer Agents in Medicinal Chemistry, 8 (3), 269-279 (2008).
1561.	49.	Rumi, M., Pond, S.J.K., Zhang, Q., Bishop, M., Zhang, Y., Barlow, S., Marder, S.R., Perry, J.W.

		Two-photon absorption in cross-shaped chromophores with phenylene-vinylene backbones Proceedings of SPIE - The International Society for Optical Engineering, 6891, art. 689104, (2008).
1562.	50.	De Boni, L., Toro, C., Masunov, A.E., Hernández, F.E. Untangling the excited states of DR1 in solution: An experimental and theoretical study Journal of Physical Chemistry A, 112 (17), 3886-3890 (2008).
1563.	51.	Rebane, A., Makarov, N.S., Drobizhev, M., Spangler, B., Tarter, E.S., Reeves, B.D., Spangler, C.W., Meng, F., Suo, Z. Quantitative prediction of two-photon absorption cross section based on linear spectroscopic properties Journal of Physical Chemistry C, 112 (21), 7997-8004 (2008).
1564.	52.	Rumi, M., Pond, S.J.K., Meyer-Friedrichsen, T., Zhang, Q., Bishop, M., Zhang, Y., Barlow, S., Marder, S.R., Perry, J.W. Tetrastyrilarene derivatives: Comparison of one- and two-photon spectroscopic properties with distyrilarene analogues Journal of Physical Chemistry C, 112 (21), 8061-8071 (2008).
1565.	53.	Cho, J.-Y., Fu, J., Padilha, L.A., Barlow, S., Van Stryland, E.W., Hagan, D.J., Bishop, M., Marder, S.R. Synthesis of a nickel bis(dithiolene) complex with strong near-infrared two-photon absorption Molecular Crystals and Liquid Crystals, 485, 167/[915]-179/[927] (2008).
1566.	54.	Boni, L.D., Andrade, A.A., Yamaki, S.B., Misoguti, L., Zilio, S.C., Atvars, T.D.Z., Mendonca, C.R. Two-photon absorption spectrum in diazoaromatic compounds Chemical Physics Letters, 463 (4-6), 360-363 (2008).
1567.	55.	Toro, C., De Boni, L., Yao, S., Belfield, K.D., Hernández, F.E. Photophysical characterization of a highly conjugated bipyridyl-based dye synthesized by a unique two-step approach Journal of Physical Chemistry B, 112 (39), 12185-12190 (2008).
1568.	56.	Rumi, M., Barlow, S., Wang, J., Perry, J.W., Marder, S.R. Two-photon absorbing materials and two-photon-induced chemistry Advances in Polymer Science, 213 (1), 1-95 (2008).
1569.	57.	Rebane, A., Makarov, N.S., Drobizhev, M. Quantitative description of two-photon absorption with few essential states models Proceedings of SPIE - The International Society for Optical Engineering, 7049, art. 704904, (2008).
1570.	58.	De Boni, L., Toro, C., Hernández, F.E. Synchronized double L-scan technique for the simultaneous measurement of polarization-dependent two-photon absorption in chiral molecules Optics Letters, 33 (24), 2958-2960 (2008).
1571.	59.	Terenziani, F., Katan, C., Badaeva, E., Tretiak, S., Blanchara-Desce, M. Enhanced two-photon absorption of organic chromophores: Theoretical and experimental assessments Advanced Materials, 20 (24), 4641-4678 (2008).
1572.	60.	Silva, D.L., Krawczyk, P., Bartkowiak, W., Mendona, C.R. Theoretical study of one- and two-photon absorption spectra of azoaromatic compounds Journal of Chemical Physics, 131 (24), art. 244516, (2009).
1573.	61.	Krawczyk, P., Kaczmarek, A., Zaleśny, R., Matczyszyn, K., Bartkowiak, W., Ziółkowski, M., Cysewski, P. Linear and nonlinear optical properties of azobenzene derivatives Journal of Molecular Modeling, 15 (6), 581-590 (2009).
1574.	62.	Ray, D., Nag, A., Goswami, D., Bharadwaj, P.K. Acyclic donor-acceptor-donor chromophores for large enhancement of two-photon absorption cross-section in the presence of Mg(II), Ca(II) or Zn(II) ions Journal of Luminescence, 129 (3), 256-262 (2009).

1575.	63.	Velusamy, M., Shen, J.-Y., Lin, J.T., Lin, Y.-C., Hsieh, C.-C., Lai, C.-H., Lai, C.-W., Ho, M.-L., Chen, Y.-C., Chou, P.-T., Hsiao, J.-K. A new series of quadrupolar type two-photon absorption chromophores bearing 11, 12-dibutoxydibenzo[a,c]-phenazine bridged amines; their applications in two-photon fluorescence imaging and two-photon photodynamic therapy Advanced Functional Materials, 19 (15), 2388-2397 (2009).
1576.	64.	Piovesan, E., Silva, D.L., De Boni, L., Guimaraes, F.E.G., Misoguti, L., Zalesny, R., Bartkowiak, W., Mendonca, C.R. Two-photon absorption of perylene derivatives: Interpreting the spectral structure Chemical Physics Letters, 479 (1-3), 52-55 (2009).
1577.	65.	Dunn, N.J., Humphries IV, W.H., Offenbacher, A.R., King, T.L., Gray, J.A. PH-dependent cis \rightarrow trans isomerization rates for azobenzene dyes in aqueous solution Journal of Physical Chemistry A, 113 (47), 13144-13151 (2009).
1578.	66.	Malval, J.-P., Morlet-Savary, F., Chaumeil, H., Balan, L., Versace, D.-L., Jin, M., Defoin, A. Photophysical properties and two-photon polymerization ability of a nitroalkoxystilbene derivative Journal of Physical Chemistry C, 113 (49), 20812-20821 (2009).
1579.	67.	Piovesan, E. Propriedades ópticas não lineares de compostos orgânicos e organometálicos Doctoral Thesis, Universidade de Sao Paulo (2009).
1580.	68.	Corrêa, D.S. Absorção de multi-fótons em polímeros e resinas poliméricas: espectroscopia não linear e microfabricação Doctoral Thesis, Universidade de Sao Paulo (2009).
1581.	69.	Ajami, A., Husinsky, W., Liska, R., Pucher, N. Two-photon absorption cross section measurements of various two-photon initiators for ultrashort laser radiation applying the Z-scan technique Journal of the Optical Society of America B: Optical Physics, 27 (11), 2290-2297 (2010).
1582.	70.	Krawczyk, P. DFT study of linear and nonlinear optical properties of donor-acceptor substituted stilbenes, azobenzenes and benzilideneanilines Journal of Molecular Modeling, 16 (4), 659-668 (2010).
1583.	71.	Jang, S.-H., Jen, A.K.-Y. Structured Organic Non-Linear Optics Comprehensive Nanoscience and Technology, 1-5, 143-187 (2010).
1584.	72.	Wang, P., Feng, S.-Y. Fluorescence self-quenching and charge transfer of a novel A- σ - π - σ -A type of silicon-bridged compound Journal of Photochemistry and Photobiology A: Chemistry, 214 (2-3), 241-247 (2010).
1585.	73.	Piovesan, E., De Boni, L., Ishow, E., Mendonça, C.R. Two-photon absorption properties of a novel class of triarylamine compounds Chemical Physics Letters, 498 (4-6), 277-280 (2010).
1586.	74.	Ray, D., Nag, A., Jana, A., Goswami, D., Bharadwaj, P.K. Coumarin derived chromophores in the donor-acceptor-donor format that gives fluorescence enhancement and large two-photon activity in presence of specific metal ions Inorganica Chimica Acta, 363 (12), 2824-2832 (2010).
1587.	75.	Makarov, N.S. Ultrafast two-photon absorption in organic molecules: Quantitative spectroscopy and applications Dissertation, Montana State University (2010).
1588.	76.	Hu, D., Zhang, Z., Hu, Y., Luo, Y., Zhang, Q., Huang, W. Study on the rewritability of bisazobenzene-containing films in optical storage based on two-photon process Optics Communications, 284 (3), 802-806 (2011).
1589.	77.	Arul Murugan, N., Kongsted, J., Rinkevicius, Z., Aidas, K., Mikkelsen, K.V., Ågren, H. Hybrid density functional theory/molecular mechanics calculations of two-photon

		absorption of dimethylamino nitro stilbene in solution Physical Chemistry Chemical Physics, 13 (27), 12506-12516 (2011).
1590.	78.	Mendonça, C.R., Balogh, D.T., De Boni, L., dos Santos Jr., D.S., Zucolotto, V., Oliveira Jr., O.N. Optically Induced Processes in Azopolymers Molecular Switches, Second Edition, 1, 399-422 (2011).
1591.	79.	Edkins, R.M., Bettington, S.L., Goeta, A.E., Beeby, A. Two-photon spectroscopy of cyclometalated iridium complexes Dalton Transactions, 40 (47), 12765-12770 (2011).
1592.	80.	Getmanenko, Y.A., Hales, J.M., Balu, M., Fu, J., Zojer, E., Kwon, O., Mendez, J., Thayumanavan, S., Walker, G., Zhang, Q., Bunge, S.D., Brédas, J.-L., Hagan, D.J., Van Stryland, E.W., Barlow, S., Marder, S.R. Characterisation of a dipolar chromophore with third-harmonic generation applications in the near-IR Journal of Materials Chemistry, 22 (10), 4371-4382 (2012).
1593.	81.	Silva, D.L., Murugan, N.A., Kongsted, J., Rinkevicius, Z., Canuto, S., Gren, H. The role of molecular conformation and polarizable embedding for one- and two-photon absorption of disperse orange 3 in solution Journal of Physical Chemistry B, 116 (28), 8169-8181 (2012).
1594.	82.	Alam, M.M., Chattopadhyaya, M., Chakrabarti, S. On the origin of large two-photon activity of dans molecule Journal of Physical Chemistry A, 116 (45), 11034-11040 (2012).
1595.	83.	Wielgus, M., Bartkowiak, W., Samoc, M. Two-photon solvatochromism. I. Solvent effects on two-photon absorption cross section of 4-dimethylamino-4'-nitrostilbene (DANS) Chemical Physics Letters, 554, 113-116 (2012).
1596.	84.	Priimagi, A., Ogawa, K., Virkki, M., Mamiya, J.-I., Kauranen, M., Shishido, A. High-contrast photoswitching of nonlinear optical response in crosslinked ferroelectric liquid-crystalline polymers Advanced Materials, 24 (48), 6410-6415 (2012).
1597.	85.	Wu, T.-C. Syntheses, Structural Analyses, and Physical Properties of Polycyclic Aromatic Hydrocarbons and Oligoenes PhD Thesis, NCKU-National Cheng Kung University (2012).
1598.	86.	Li, Z., Stankevičius, E., Ajami, A., Račiukaitis, G., Husinsky, W., Ovsianikov, A., Stampfl, J., Liska, R. 3D alkyne-azide cycloaddition: Spatiotemporally controlled by combination of aryl azide photochemistry and two-photon grafting Chemical Communications, 49 (69), 7635-7637 (2013).
1599.	87.	Anand, B., Roy, N., Siva Sankara Sai, S., Philip, R. Spectral dispersion of ultrafast optical limiting in Coumarin-120 by white-light continuum Z-scan Applied Physics Letters, 102 (20), art. 203302, (2013).
1600.	88.	Li, Z., Ajami, A., Stankevičius, E., Husinsky, W., Račiukaitis, G., Stampfl, J., Liska, R., Ovsianikov, A. 3D photografting with aromatic azides: A comparison between three-photon and two-photon case Optical Materials, 35 (10), 1846-1851 (2013).
1601.	89.	Achelle, S., Malval, J.-P., Aloïse, S., Barsella, A., Spangenberg, A., Mager, L., Akdas-Kilig, H., Fillaut, J.-L., Caro, B., Robin-Le Guen, F. Synthesis, photophysics and nonlinear optical properties of stilbenoid pyrimidine-based dyes bearing methylenepyran donor groups ChemPhysChem, 14 (12), 2725-2736 (2013).
1602.	90.	Bednarska, J., Róztoczyńska, A., Bartkowiak, W., Zaleśny, R. Comparative assessment of density functionals for excited-state dipole moments Chemical Physics Letters, 584, 58-62 (2013).

1603.	91.	Beyer, M. Untersuchungen zu photo-vernetzbaeren und biokompatiblen (Hybrid) Polymeren Dissertation, Julius-Maximilians-Universität Würzburg (2013).
1604.	92.	Wicks, G., Rebane, A., Drobizhev, M. Two-photon solvatochromism of 4-dimethylamino-4'-nitrostilbene (DANS) Proceedings of SPIE - The International Society for Optical Engineering, 8983, art. 89830R, (2014).
1605.	93.	Chu, C.C., Chang, Y.-C., Tsai, B.-K., Lin, T.-C., Lin, J.-H., Hsiao, V.K.S. Trans/cis-isomerization of fluorene-bridged azo chromophore with significant two-photon absorbability at near-infrared wavelength Chemistry - An Asian Journal, 9 (12), 3390-3396 (2014).
1606.	94.	Maldonado-Domínguez, M., Arcos-Ramos, R., Romero, M., Flores-Pérez, B., Farfán, N., Santillan, R., Lacroix, P.G., Malfant, I. The amide bridge in donor-acceptor systems: Delocalization depends on push-pull stress New Journal of Chemistry, 38 (1), 260-268 (2014).
1607.	95.	Makarov, N.S., Lau, P.C., Olson, C., Velizhanin, K.A., Solntsev, K.M., Kieu, K., Kilina, S., Tretiak, S., Norwood, R.A., Peyghambarian, N., Perry, J.W. Two-photon absorption in CdSe colloidal quantum dots compared to organic molecules ACS Nano, 8 (12), 12572-12586 (2014).
1608.	96.	Savel, P., Akdas-Kilig, H., Malval, J.-P., Spangenberg, A., Roisnel, T., Fillaut, J.-L. Metal-induced dimensionality tuning in a series of bipyrimidine-based ligands: A tool to enhance two-photon absorption Journal of Materials Chemistry C, 2 (2), 295-305 (2014).
1609.	97.	Day, P.N., Pachter, R., Nguyen, K.A. Analysis of nonlinear optical properties in donor-acceptor materials Journal of Chemical Physics, 140 (18), art. 184308, (2014).
1610.	98.	Izquierdo-Serra, M., Gascón-Moya, M., Hirtz, J.J., Pittolo, S., Poskanzer, K.E., Ferrer, E., Alibés, R., Busqué, F., Yuste, R., Hernando, J., Gorostiza, P. Two-photon neuronal and astrocytic stimulation with azobenzene-based photoswitches Journal of the American Chemical Society, 136 (24), 8693-8701 (2014).
1611.	99.	Rudolf, P.B. Uncovering photoinduced chemical reaction pathways in the liquid phase with ultrafast vibrational spectroscopy Dissertation, Julius-Maximilians-Universität Würzburg (2014).
1612.	100.	Krawczyk, P. Time-dependent density functional theory calculations of the solvatochromism of some azo sulfonamide fluorochromes Journal of Molecular Modeling, 21 (5), 18 (2015).
1613.	101.	Liu, F., Yang, Y., Wang, H., Liu, J., Hu, C., Huo, F., Bo, S., Zhen, Z., Liu, X., Qiu, L. Comparative studies on structure-nonlinearity relationships in a series of novel second-order nonlinear optical chromophores with different aromatic amine donors Dyes and Pigments, 120, 347-356 (2015).
1614.	102.	Quinton, C., Chi, S.-H., Dumas-Verdes, C., Audebert, P., Clavier, G., Perry, J.W., Alain-Rizzo, V. Novel s-tetrazine-based dyes with enhanced two-photon absorption cross-section Journal of Materials Chemistry C, 3 (32), 8351-8357 (2015).
1615.	103.	Carlotti, B., Benassi, E., Cesaretti, A., Fortuna, C.G., Spalletti, A., Barone, V., Elisei, F. An ultrafast spectroscopic and quantum mechanical investigation of multiple emissions in push-pull pyridinium derivatives bearing different electron donors Physical Chemistry Chemical Physics, 17 (32), 20981-20989 (2015).
1616.	104.	Hu, N., Gong, Y., Wang, X., Lu, Y., Peng, G., Yang, L., Zhang, S., Luo, Z., Li, H., Gao, F. A Successful Attempt to Obtain the Linear Dependence between One-Photon and Two-Photon Spectral Properties and Hammett Parameters of Various Aromatic Substituents in New π -Extended Asymmetric Organic Chromophores Journal of Fluorescence, 25 (6), 1559-1566 (2015).
1617.	105.	Mettra, B.

		Ingénierie, photophysique et fonctionnalisation de chromophores pour la bio-photonique non linéaire in-vivo Grade de Docteur, École Normale Supérieure de Lyon (2015).
1618.	106.	Hu, D., Lin, J., Jin, S., Hu, Y., Wang, W., Wang, R., Yang, B. Synthesis, structure and optical data storage properties of silver nanoparticles modified with azobenzene thiols Materials Chemistry and Physics, 170, 108-112 (2016).
1619.	107.	Lim, C.-K., Li, X., Li, Y., Drew, K.L.M., Palafox-Hernandez, J.P., Tang, Z., Baev, A., Kuzmin, A.N., Knecht, M.R., Walsh, T.R., Swihart, M.T., Ågren, H., Prasad, P.N. Plasmon-enhanced two-photon-induced isomerization for highly-localized light-based actuation of inorganic/organic interfaces Nanoscale, 8 (7), 4194-4202 (2016).
1620.	108.	Hu, Z., Autschbach, J., Jensen, L. Simulating Third-Order Nonlinear Optical Properties Using Damped Cubic Response Theory within Time-Dependent Density Functional Theory Journal of Chemical Theory and Computation, 12 (3), 1294-1304 (2016).
1621.	109.	Hales, J.M., Chi, S.-H., Chen, V.W., Perry, J.W. Two-photon absorption: Concepts, molecular materials and applications The WSPC Reference on Organic Electronics: Organic Semiconductors, 2, 397-442 (2016).
1622.	110.	Li, Y., Zeng, L., Liu, Z., Qin, J. Two-photon molecular probe Advances in Molecular Biophotonics, 93-193 (2017).
1623.	111.	Pokladek, Z., Dudek, M., Mongin, O., Métivier, R., Mlynarz, P., Samoc, M., Matczyszyn, K., Paul, F. Linear and Third-Order Nonlinear Optical Properties of Triazobenzene-1,3,5-triazinane-2,4,6-trione (Isocyanurate) Derivatives ChemPlusChem, 82 (12), 1372-1383 (2017).
1624.	112.	Muniz-Miranda, F., Pedone, A., Muniz-Miranda, M. Spectroscopic and DFT investigation on the photo-chemical properties of a push-pull chromophore: 4-Dimethylamino-4'-nitrostilbene Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 190, 33-39 (2018).
1625.	113.	Sasaki, S., Ube, T., Katayama, K., Muramatsu, M., Miyasaka, H., Ikeda, T. Two-photon actuation of crosslinked liquidcrystalline polymers utilizing energy transfer system Molecular Crystals and Liquid Crystals, 662 (1), 53-60 (2018).
1626.	114.	Marazzi, M., Gattuso, H., Monari, A., Assfeld, X. Steady-state linear and non-linear optical spectroscopy of organic chromophores and bio-macromolecules Frontiers in Chemistry, 6 (APR), art. 86, (2018).
1627.	115.	Jin, T., Yang, J., Fang, Y., Han, Y., Song, Y. Modulation and mechanism of ultrafast transient spectroscopy based on dimethylamino-carbaldehyde derivatives Chinese Physics B, 27, art. 27 054208 (2018).
1628.	116.	Muniz-Miranda, M., Muniz-Miranda, F., Pedone, A. SERS and DFT investigation on push-pull molecules: 4-Dimethylamino- 4'-nitrostilbene adsorbed on silver colloidal nanoparticles ChemistrySelect, 3 (30), 8698-8702 (2018).
1629.	117.	Li, Z., Hu, P., Zhu, J., Gao, Y., Xiong, X., Liu, R. Conjugated Carbazole-Based Schiff Bases as Photoinitiators: From Facile Synthesis to Efficient Two-Photon Polymerization Journal of Polymer Science, Part A: Polymer Chemistry, 56 (23), 2692-2700 (2018).
1630.	118.	Jang, S.-H., Jen, A.K.-Y. Structured organic non-linear optics Comprehensive Nanoscience and Nanotechnology, 1-5, 261-296 (2019).
1631.	119.	Raikwar, M.M., Patil, D.S., Mathew, E., Varghese, M., Joe, I.H., Sekar, N.

		Influence of thiophene spacer and auxiliary acceptor on the optical properties of 4-(Diethylamino)-2-hydroxybenzaldehyde based D- π -A- π -D Colorants with N-alkyl donors: Experimental, DFT and Z-scan study Journal of Photochemistry and Photobiology A: Chemistry, 373, 45-58 (2019).
1632.	120.	Kim, Y.J., Choi, H., Kim, C.S., Lee, G., Kim, S., Park, J., Park, S.E., Cho, B.J. High-Performance Monolithic Photovoltaic-Thermoelectric Hybrid Power Generator Using an Exothermic Reactive Interlayer ACS Applied Energy Materials, 2 (4), 2381-2386 (2019).
1633.	121.	Lu, S.-l. Discrete Solvent Reaction Field Calculations for One- and Two-Photon Absorptions of Solution-Phase Dimethylaminonitrostilbene Molecule Journal of Physical Chemistry A, 123 (25), 5334-5340 (2019).
1634.	122.	Gholami, S., Pedraza-González, L., Yang, X., Granovsky, A.A., Ioffe, I.N., Olivucci, M. Multistate Multiconfiguration Quantum Chemical Computation of the Two-Photon Absorption Spectra of Bovine Rhodopsin Journal of Physical Chemistry Letters, 10 (20), 6293-6300 (2019).
1635.	123.	Cabré, G., Garrido-Charles, A., Moreno, M., Bosch, M., Porta-de-la-Riva, M., Krieg, M., Gascón-Moya, M., Camarero, N., Gelabert, R., Lluch, J.M., Busqué, F., Hernando, J., Gorostiza, P., Alibés, R. Rationally designed azobenzene photoswitches for efficient two-photon neuronal excitation Nature Communications, 10 (1), art. 907 (2019).
1636.	124.	Muñoz-Rugeles, L., Gallardo-Rosas, D., Durán-Hernández, J., López-Arteaga, R., Toscano, R.A., Esturau-Escofet, N., López-Cortés, J.G., Peón, J., Ortega-Alfaro, M.C. Synthesis and Photodynamics of Stilbenyl - Azopyrroles: Two - Photon Controllable Photoswitching Systems ChemPhotoChem, 4 (2), 144-154 (2020)
1637.	125.	Yang, M., Mo, C., Fang, L., Li, J., Yuan, Z., Chen, Z., Jiang, Q., Chen, X., Yu, D. Multibranched Octupolar Module Embedded Covalent Organic Frameworks Enable Efficient Two-Photon Fluorescence Advanced Functional Materials, 30 (34), art. no. 2000516 (2020).
1638.	126.	He, Z., Xue, R., Lei, Y., Yu, L., Zhu, C. Photorelaxation pathways of 4-(N,N-dimethylamino)-4'-nitrostilbene upon S ₁ excitation revealed by conical intersection and intersystem crossing networks Molecules, 25 (9), art. no. 2230 (2020).
1639.	127.	Dudek, M., Tarnowicz-Staniak, N., Deiana, M., Pokładek, Z., Samoć, M., Matczyszyn, K. Two-photon absorption and two-photon-induced isomerization of azobenzene compounds RSC Advances, 10 (66), 40489-40507 (2020).
1640.	128.	Aleotti, F., Nenov, A., Salvigni, L., Bonfanti, M., El-Tahawy, M. M., Giunchi, A., Gentile, M., Spallacci, C., Ventimiglia, A., Cirillo, G., Montali, L., Scurti, S., Garavelli, M., Conti, I. Spectral Tuning and Photoisomerization Efficiency in Push-Pull Azobenzenes: Designing Principles The Journal of Physical Chemistry A, 124 (46), 9513-9523 (2020).
1641.	129.	Ahmadzadeh, K., Scott, M., Brand, M., Vahtras, O., Li, X., Rinkevicius, Z., Norman, P. Efficient implementation of isotropic cubic response functions for two-photon absorption cross sections within the self-consistent field approximation Journal of Chemical Physics, 154 (2), art. no. 024111 (2021).
1642.	130.	Ishii, T., Isozaki, T., Kinoshita, S., Takeuchi, R., Kashiwara, W., Suzuki, T. A Substituent Effect on Two-Photon Absorption of Diphenylacetylene Derivatives with an Electron-Donating/Withdrawing Group Journal of Physical Chemistry A, 125, 1688-1695 (2021).
C.38. Complexation and redox processes during the course of AuCl ₄ -bilirubin interaction in aqueous-basic and methanolic media. N.Mincheva, <u>L.Antonov</u> , M.Mitewa, G.Ponticelli & M.T.Cocco; <i>Transition Metal Chemistry</i> , 28 , 316-322 (2003)		
1643.	1.	Bröring, M. Beyond Dipyrins: Coordination Interactions and Templated Macrocyclizations of Open-

		Chain Oligopyrroles Handbook of Porphyrin Science, 8, 343-501 (2010).
C.39. Tautomerism in hydroxynaphthaldehyde anils and azo analogues: a combined experimental and computational study. W.M.F.Fabian, L.Antonov, D.Nedeltcheva, F.S.Kamounah & P.J.Taylor; <i>Journal of Physical Chemistry A</i> , 108 , 7603-7612 (2004)		
1644.	1.	Filarowski, A. Intramolecular hydrogen bonding in o-hydroxyaryl Schiff bases <i>Journal of Physical Organic Chemistry</i> , 18 (8), 686-698 (2005).
1645.	2.	Gallant, A.J., Yun, M., Sauer, M., Yeung, C.S., MacLachlan, M.J. Tautomerization in naphthalenediimines: A keto-enamine Schiff base macrocycle <i>Organic Letters</i> , 7 (22), 4827-4830 (2005).
1646.	3.	Hijji, Y., Wairia, G. Development of salicylidene derivatives as novel receptors for anion sensing and recognition <i>Proceedings of SPIE - The International Society for Optical Engineering</i> , 6007, art. 60070B, (2005).
1647.	4.	Douhal, A., Sanz, M., Tormo, L. Femtochemistry of orange II in solution and in chemical and biological nanocavities <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 102 (52), 18807-18812 (2005).
1648.	5.	Rybarczyk-Pirek, A.J., Dubis, A.T., Grabowski, S.J., Nawrot-Modranka, J. Intramolecular hydrogen bonds in crystals of thiophosphorylbenzopyrane derivatives - X-ray and FT-IR studies <i>Chemical Physics</i> , 320 (2-3), 247-258 (2006).
1649.	6.	Sauer, M., Yeung, C., Chong, J.H., Patrick, B.O., MacLachlan, M.J. N-salicylideneanilines: Tautomers for formation of hydrogen-bonded capsules, clefts, and chains <i>Journal of Organic Chemistry</i> , 71 (2), 775-788 (2006).
1650.	7.	Ziotek, M., Kubicki, J., Maciejewski, A., Naskręcki, R., Grabowska, A. Enol-keto tautomerism of aromatic photochromic Schiff base N, N' -bis(salicylidene)- p -phenylenediamine: Ground state equilibrium and excited state deactivation studied by solvatochromic measurements on ultrafast time scale <i>Journal of Chemical Physics</i> , 124 (12), art. 124518, (2006).
1651.	8.	Alagona, G., Ghio, C. Protonated serotonin conformational landscape in vacuo and in aqueous solution (IEF-PCM): Role of correlation effects and monohydration <i>Journal of Molecular Structure: THEOCHEM</i> , 769 (1-3), 123-134 (2006).
1652.	9.	Nagy, P.I., Alagona, G., Ghio, C. Theoretical investigation of tautomeric equilibria for isonicotinic acid, 4-pyridone, and acetylacetone in vacuo and in solution <i>Journal of Chemical Theory and Computation</i> , 3 (4), 1249-1266 (2007).
1653.	10.	Guillaume, M., Champagne, B., Markova, N., Enchev, V., Castet, F. Ab initio investigation on the second-order nonlinear optical responses in keto-enol equilibria of salicylideneanilines <i>Journal of Physical Chemistry A</i> , 111 (39), 9914-9923 (2007).
1654.	11.	La, J.Q.-H., Michaelides, A.A., Manderville, R.A. Tautomeric equilibria in phenolic a-ring derivatives of prodigiosin natural products <i>Journal of Physical Chemistry B</i> , 111 (40), 11803-11811 (2007).
1655.	12.	Mitra, S., Singh, T.S., Mandal, A., Mukherjee, S. Experimental and computational study on photophysical properties of substituted o-hydroxy acetophenone derivatives: Intramolecular proton transfer and solvent effect <i>Chemical Physics</i> , 342 (1-3), 309-317 (2007).
1656.	13.	Taulelle, P. Influence of additives on the crystallization of active pharmaceutical ingredients PhD Thesis, University Paul Cezanne (2007).

1657.	14.	Özel, A.D., Kiliç, E. Electrochemical investigation of 4-[(2-hydroxy-1-naphthyl)azo] benzenesulfonic acid sodium salt (orange II) at glassy carbon electrode Asian Journal of Chemistry, 20 (2), 1609-1620 (2008).
1658.	15.	Ziółek, M., Burdziński, G., Filipczak, K., Karolczak, J., Maciejewski, A. Spectroscopic and photophysical studies of the hydroquinone family of photochromic Schiff bases analyzed over a 17-orders-of-magnitude time scale Physical Chemistry Chemical Physics, 10 (9), 1304-1318 (2008).
1659.	16.	Plaquet, A., Guillaume, M., Champagne, B., Rougier, L., Mançois, F., Rodriguez, V., Pozzo, J.-L., Ducasse, L., Castet, F. Investigation on the second-order nonlinear optical responses in the keto-enol equilibrium of anil derivatives Journal of Physical Chemistry C, 112 (14), 5638-5645 (2008).
1660.	17.	Filarowski, A., Majerz, I. AIM analysis of intramolecular hydrogen bonding in o-hydroxy aryl Schiff bases Journal of Physical Chemistry A, 112 (14), 3119-3126 (2008).
1661.	18.	Tunçel, M., Kahyaoğlu, H., Çakır, M. Synthesis, characterization, and histological activity of novel polydentate azo ligands and their cobalt(II), copper(II) and nickel(II) complexes Transition Metal Chemistry, 33 (5), 605-613 (2008).
1662.	19.	Kluba, M., Lipkowski, P., Filarowski, A. Theoretical investigation of tautomeric equilibrium in ortho-hydroxy phenyl Schiff bases Chemical Physics Letters, 463 (4-6), 426-430 (2008).
1663.	20.	Zaichenko, N.L., Levin, P.P., Mardaleishvili, I.R., Shienok, A.I., Kol'Tsova, L.S., Os'Kina, O.Yu., Tatikolov, A.S. Synthesis and kinetics of photochemical reactions of novel bifunctional salicylideneiminospiro naphthoxazines Russian Chemical Bulletin, 57 (11), 2394-2401 (2008).
1664.	21.	Houjou, H., Motoyama, T., Banno, S., Yoshikawa, I., Araki, K. Experimental and theoretical studies on constitutional isomers of 2, 6-dihydroxynaphthalene carbaldehydes. effects of resonance-assisted hydrogen bonding on the electronic absorption spectra Journal of Organic Chemistry, 74 (2), 520-529 (2009).
1665.	22.	Baçoğlu, A., Parlayan, S., Ocak, M., Alp, H., Kantekin, H., Özdemir, M., Ocak, U. Complexation of metal ions with the novel 2-hydroxy-1-naphthaldehyde-derived diamine Schiff base carrying a macrobicyclic moiety with N2O2S2 mixed donor in acetonitrile-dichloromethane Polyhedron, 28 (6), 1115-1120 (2009).
1666.	23.	Filarowski, A., Koll, A., Sobczyk, L. Intramolecular hydrogen bonding in o-hydroxy aryl Schiff bases Current Organic Chemistry, 13 (2), 172-193 (2009).
1667.	24.	Bertolasi, V., Gilli, P., Gilli, G. Crystal chemistry and prototropic tautomerism in 2-(1-iminoalkyl)-phenols (or naphthols) and 2-diazenyl-phenols (or naphthols) Current Organic Chemistry, 13 (3), 250-268 (2009).
1668.	25.	Kukawska-Tarnawska, B., Leś, A., Dziembowska, T., Rozwadowski, Z.J. Tautomeric forms of N-(5-nitrosalicylidene)-2-butylamine: Experimental and theoretical DFT study Journal of Molecular Structure, 928 (1-3), 25-31 (2009).
1669.	26.	Baçoğlu, A., Parlayan, S., Ocak, M., Alp, H., Kantekin, H., Özdemir, M., Ocak, Ü. Selective recognition of cobalt (II) ion by a new cryptand compound with N 2O 2S 2 donor atom possessing 2-hydroxy-1-naphthylidene schiff base moiety Journal of Fluorescence, 19 (4), 655-662 (2009).
1670.	27.	Yamgar, B.A., Sawant, V.A., Sawant, S.K., Chavan, S.S. Copper(II) complexes of thiazolylazo dye with triphenylphosphine and N3- or NCS- as coligands: Synthesis, spectral characterization, electrochemistry and luminescence

		properties Journal of Coordination Chemistry, 62 (14), 2367-2374 (2009).
1671.	28.	Dziembowska, T., Szafran, M., Katrusiak, A., Rozwadowski, Z. Crystal structure of and solvent effect on tautomeric equilibrium in Schiff base derived from 2-hydroxy-1-naphthaldehyde and methylamine studied by X-ray diffraction, DFT, NMR and IR methods Journal of Molecular Structure, 929 (1-3), 32-42 (2009).
1672.	29.	Chen, P., Lu, R., Xue, P., Xu, T., Chen, G., Zhao, Y. Emission enhancement and chromism in a salen-based gel system Langmuir, 25 (15), 8395-8399 (2009).
1673.	30.	Filipczak, K., Karolczak, J., Ziółek, M. Temperature influence on deactivation paths and tautomeric equilibrium of some photochromic Schiff bases studied by time-resolved and stationary spectroscopy Photochemical and Photobiological Sciences, 8 (11), 1603-1610 (2009).
1674.	31.	Karabiyik, H., Petek, H., Iskeleli, N.O., Albayrak, C. Structural and aromatic aspects for tautomerism of (Z)-6-((4-bromophenylamino)methylene)-2,3-dihydroxycyclohexa-2,4-dienone Structural Chemistry, 20 (6), 1055-1065 (2009).
1675.	32.	Lin, C.-W., Chou, P.-T., Liao, Y.-H., Lin, Y.-C., Chen, C.-T., Chen, Y.-C., Lai, C.-H., Chen, B.-S., Liu, Y.-H., Wang, C.-C., Ho, M.L. Photoisomerization of a maleonitrile-type salen Schiff base and its application in fine-tuning infinite coordination polymers Chemistry - A European Journal, 16 (12), 3770-3782 (2010).
1676.	33.	Jain, V.K., Mandalia, H.C., Bhojak, N. Azocalix[4]pyrrole dyes: Application in dyeing of fibers and their antimicrobial activity Fibers and Polymers, 11 (3), 363-371 (2010).
1677.	34.	Gil, M., Ziółek, M., Organero, J.A., Douhal, A. Confined fast and ultrafast dynamics of a photochromic proton-transfer dye within a zeolite nanocage Journal of Physical Chemistry C, 114 (21), 9554-9562 (2010).
1678.	35.	Antony Muthu Prabhu, A., Venkatesh, G., Rajendiran, N. Azo-hydrazo tautomerism and inclusion complexation of 1-phenylazo-2-naphthols with various solvents and β -cyclodextrin Journal of Fluorescence, 20 (4), 961-972 (2010).
1679.	36.	He, S., Tan, Y., Xiao, X., Zhu, L., Guo, Y., Li, M., Tian, A., Pu, X., Wong, N.-B. Substituent effects on electronic character of the CN group and trans/cis isomerization in the C-substituted imine derivatives: A computational study Journal of Molecular Structure: THEOCHEM, 951 (1-3), 7-13 (2010).
1680.	37.	Dobosz, R., Skotnicka, A., Rozwadowski, Z., Dziembowska, T., Gawinecki, R. Stability of N-(ortho-hydroxynaphthylmethylene)methylamines and their tautomers Journal of Molecular Structure, 979 (1-3), 194-199 (2010).
1681.	38.	Hayvali, Z., Ünver, H., Svoboda, I. Synthesis, spectroscopic, spectrophotometric and crystallographic investigations of 4-[[[(1E)-(3,4-dimethoxyphenyl)methylene]amino]-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one and 4-[[[(1E)-(2-hydroxy-5-methoxyphenyl)methylene]amino]-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one Acta Chimica Slovenica, 57 (3), 643-650 (2010).
1682.	39.	Seillan, C., Marsal, P., Siri, O. New class of highly stable nonaromatic tautomers Organic and Biomolecular Chemistry, 8 (17), 3882-3887 (2010).
1683.	40.	Yamgar, B.A., Sawant, V.A., Jadhav, A.N., Chavan, S.S. Synthesis, characterization and photoluminescence properties of copper(II)-azido/thiocyanato complexes with thiazolylazo dye and 1,2-bis(diphenylphosphino)ethane Inorganic Chemistry Communications, 13 (10), 1207-1209 (2010).
1684.	41.	Misra, A., Shahid, M. Chromo and fluorogenic properties of some azo-phenol derivatives and recognition of

		Hg ²⁺ ion in aqueous medium by enhanced fluorescence Journal of Physical Chemistry C, 114 (39), 16726-16739 (2010).
1685.	42.	Voitenko, Z.V., Halaev, O.I., Samoylenko, V.P., Kolotilov, S.V., Lepetit, C., Donnadieu, B., Chauvin, R. On the reactivity of isoindolo[2,1-a]quinazoline-5-ones Tetrahedron, 66 (41), 8214-8222 (2010).
1686.	43.	Sarkar, S., Dey, K. A series of transition and non-transition metal complexes from a N 4O2 hexadentate Schiff base ligand: Synthesis, spectroscopic characterization and efficient antimicrobial activities Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 77 (4), 740-748 (2010).
1687.	44.	Reichardt, C., Welton, T. Solvents and Solvent Effects in Organic Chemistry: Fourth Edition Solvents and Solvent Effects in Organic Chemistry: Fourth Edition, 692 (2010).
1688.	45.	Yamgar, B.A., Sawant, V.A., Bharate, B.G., Chavan, S.S. Synthesis, spectral characterization, thermal and photoluminescence properties of Zn(II) and Cd(II)-azido/thiocyanato complexes with thiazolylazo dye and 1,2-bis(diphenylphosphino)ethane Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 78 (1), 102-106 (2011).
1689.	46.	Domínguez, O., Rodríguez-Molina, B., Rodríguez, M., Ariza, A., Farfán, N., Santillan, R. X-Ray crystallographic and spectroscopic properties of eight Schiff bases as evidence of the proton transfer reaction. Role of the intermolecular hydrogen bond New Journal of Chemistry, 35 (1), 156-164 (2011).
1690.	47.	Levin, P.P., Zaichenko, N.L., Shienok, A.I., Kol'tsova, L.S., Mardaleishvili, I.R., Tatikolov, A.S. Kinetics of photochemical reactions of spironaphthopyran azomethine upon photoexcitation with light of different wavelengths High Energy Chemistry, 45 (2), 147-151 (2011).
1691.	48.	Kosar, B., Albayrak, Ç., Odabaşoğlu, M., Büyükgüngör, O. Molecular structure of (Z)-6-[(5-chloro-2-hydroxyphenylamino) methylene]-3-(diethylamino)cyclohexa-2,4-dienone: A combined experimental and theoretical study Journal of Molecular Structure, 989 (1-3), 31-37 (2011).
1692.	49.	Karpicz, R., Gulbinas, V., Lewanowicz, A., MacErnis, M., Sulskus, J., Valkunas, L. Relaxation pathways of excited N-(triphenylmethyl)salicylideneimine in solutions Journal of Physical Chemistry A, 115 (10), 1861-1868 (2011).
1693.	50.	Zanjanchi, F., Hadipour, N.L., Sabzyan, H., Beheshtian, J. Photo-oxidation of phenylazonaphthol dyes and their reactivity analysis in the gas phase and adsorbed on cellulose fibers states using DFT and TD-DFT Dyes and Pigments, 89 (1), 16-22 (2011).
1694.	51.	Ali Beyramabadi, S., Morsali, A. Intramolecular proton transfer of 2-[(2,4- dimethylphenyl)iminomethyl]-3,5-dimethoxyphenol schiff-base ligand: A density functional theory (DFT) study International Journal of Physical Sciences, 6 (7), 1780-1788 (2011).
1695.	52.	Buruiana, E.C., Jitaru, F., Hitruc, G., Buruiana, T. Synthesis and properties of photosensitive poly(urethane-acrylate) containing anil groups with application in the chemosensors area Polymer Engineering and Science, 51 (5), 884-893 (2011).
1696.	53.	Karabilyk, H., Sevinçek, R., Petek, H., Aygün, M. Aromaticity balance, π -electron cooperativity and H-bonding properties in tautomerism of salicylideneaniline: The quantum theory of atoms in molecules (QTAIM) approach Journal of Molecular Modeling, 17 (6), 1295-1309 (2011).
1697.	54.	Minkin, V.I., Tsukanov, A.V., Dubonosov, A.D., Bren, V.A. Tautomeric Schiff bases: Iono-, solvato-, thermo- and photochromism Journal of Molecular Structure, 998 (1-3), 179-191 (2011).
1698.	55.	Zhao, R., Tan, C., Xie, Y., Gao, C., Liu, H., Jiang, Y. One step synthesis of azo compounds from nitroaromatics and anilines

		Tetrahedron Letters, 52 (29), 3805-3809 (2011).
1699.	56.	Zaichenko, N.L., Shienok, A.I., Koltsova, L.S., Mardaleishvili, I.R., Tatikolov, A.S., Levin, P.P., Berlin, A.A. Bifunctional photosensitive compound for optical processors Physica Status Solidi (C) Current Topics in Solid State Physics, 8 (9), 2746-2748 (2011).
1700.	57.	Mardaleishvili, I.R., Kol'tsova, L.S., Zaichenko, N.L., Shienok, A.I., Levin, P.P., Tatikolov, A.S. Spectral and luminescent properties of compounds based on indoline spiropyran and salicylideneimine High Energy Chemistry, 45 (6), 510-514 (2011).
1701.	58.	Jacquemin, D., Preat, J., Perpète, E.A., Vercauteren, D.P., André, J.-M., Ciofini, I., Adamo, C. Absorption spectra of azobenzenes simulated with time-dependent density functional theory International Journal of Quantum Chemistry, 111 (15), 4224-4240 (2011).
1702.	59.	Fragoza-Mar, L., Pérez-Caballero, G., García-Gutierrez, J.L., Jiménez-Cruz, F. Modeling and theory in resonance assisted hydrogen bonding (RAHB) systems: β -diketones (OHO) and arylazophenols (NHO) Molecular Systems: Theory and Modeling (F.Jiménez-Cruz, J.L.García-Gutiérrez, editors), 97-122, Transworld Research Network (2011).
1703.	60.	Saleem, L.M.N., Sultan, R.H. Keto-enol tautomerism of 2-hydroxy naphthylideneaniline with Lanthanide shift reagent Pr(fod) ₃ in different solvents Oriental Journal of Chemistry, 28 (3), 1189-1193 (2012).
1704.	61.	Karabyk, H., Karabyk, H., Ocak Skeleli, N. Hydrogen-bridged chelate ring-assisted π -stacking interactions Acta Crystallographica Section B: Structural Science, 68 (1), 71-79 (2012).
1705.	62.	Levin, P.P., Zaichenko, N.L., Shienok, A.I., Kol'tsova, L.S., Mardaleishvili, I.R., Tatikolov, A.S. Spectral kinetic characteristics of the photoisomerization products of naphthylmethylideneiminospiroanthropyran induced by photolysis at different wavelengths Russian Chemical Bulletin, 61 (3), 532-538 (2012).
1706.	63.	Rubčić, M., Užarević, K., Halasz, I., Bregović, N., Mališ, M., Dilović, I., Kokan, Z., Stein, R.S., Dinnebier, R.E., Tomišić, V. Desmotropy, polymorphism, and solid-state proton transfer: Four solid forms of an aromatic o-hydroxy schiff base Chemistry - A European Journal, 18 (18), 5620-5631 (2012).
1707.	64.	Mardaleishvili, I.R., Kol'tsova, L.S., Zaichenko, N.L., Sister, V.G., Shienok, A.I., Levin, P.P., Tatikolov, A.S. Spectral and luminescent properties of hydroxyazomethines of indoline spiropyrans High Energy Chemistry, 46 (3), 160-165 (2012).
1708.	65.	Qiu, M.Y., Zhang, J.C., Shi, W.Y., Jia, Q.C., Niu, Y.S. Synthesis and characterization of azo aromatic diacyl chlorides Asian Journal of Chemistry, 24 (5), 2295-2297 (2012).
1709.	66.	Misra, R., Maity, D.K., Bhattacharyya, S.P. Probing microcluster formation between PACO and solvents containing oxygen donor sites mediated by the 'N-H' Bond Chemical Physics, 402, 96-104 (2012).
1710.	67.	Levin, P.P., Tatikolov, A.S., Zaichenko, N.L., Shienok, A.I., Kol'tsova, L.S., Mardaleishvili, I.R., Popov, L.D., Levchenkov, S.I., Berlin, A.A. Study of spectral and kinetic characteristics of products of photolysis of a trifunctional compound with light of different wavelengths High Energy Chemistry, 46 (4), 259-265 (2012).
1711.	68.	Sebastiano, R., Contiello, N., Senatore, S., Righetti, P.G., Citterio, A. Analysis of commercial Acid Black 194 and related dyes by micellar electrokinetic chromatography Dyes and Pigments, 94 (2), 258-265 (2012).
1712.	69.	Franckeviius, M., Vainoras, R., Marcos, M., Serrano, J.L., Gruodis, A., Galikova, N., Gulbinas,

		V. Tautomeric forms of PPI dendrimers functionalized with 4-(4'-ethoxybenzoyloxy)salicylaldehyde chromophores Chemical Physics, 404, 2-8 (2012).
1713.	70.	Khanmohammadi, H., Rezaeian, K. Thermally stable water insoluble azo-azomethine dyes: Synthesis, characterization and solvatochromic properties Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 97, 652-658 (2012).
1714.	71.	Abdul-Hassan, W.S., Hassan, H.M., Mekky, A.H. Ab initio calculations and structure of three acyclic bis(acetyl acetone)imine derivatives Journal Thi-Qar Sciences, 3 (3), 149-157 (2012).
1715.	72.	Khanmohammadi, H., Khodam, F. Solvatochromic and electrochemical properties of new thermally stable azo-azomethine dyes with N2S2O2 donor set of atoms Journal of Molecular Liquids, 177, 198-203 (2013).
1716.	73.	Ferreira, G.R., Garcia, H.C., Couri, M.R.C., Dos Santos, H.F., De Oliveira, L.F.C. On the azo/hydrazo equilibrium in Sudan i azo dye derivatives Journal of Physical Chemistry A, 117 (3), 642-649 (2013).
1717.	74.	Zakerhamidi, M.S., Nejati, K., Golghasemi Sorkhabi, S., Saati, M. Substituent and solvent effects on the spectroscopic properties and dipole moments of hydroxyl benzaldehyde azo dye and related Schiff bases Journal of Molecular Liquids, 180, 225-234 (2013).
1718.	75.	Nicolás-Vázquez, I., Pérez-Caballero, G., Jiménez, A.G., Rangel, G.G., Ruvalcaba, R.M. A novel azocompound, 2-(4-phenylazoaniline)-4-phenylphenol: Spectroscopic and quantum-chemical approach International Journal of Quantum Chemistry, 113 (8), 1107-1115 (2013).
1719.	76.	Wang, J., Hu, L., Cao, X., Lu, J., Li, X., Gu, H. Catalysis by Pd nanoclusters generated in situ of high-efficiency synthesis of aromatic azo compounds from nitroaromatics under H2 atmosphere RSC Advances, 3 (15), 4899-4902 (2013).
1720.	77.	Singh, V.P., Tiwari, K., Mishra, M., Srivastava, N., Saha, S. 5-[(2-Hydroxynaphthalen-1-yl)methylene]amino]pyrimidine-2,4(1H,3H)-dione as Al ³⁺ selective colorimetric and fluorescent chemosensor Sensors and Actuators, B: Chemical, 182, 546-554 (2013).
1721.	78.	Chavan, S.S., Yamgar, B.A., Bharate, B.G. Zn(II) and Cd(II)-azido/thiocyanato complexes with thiazolylazo dye and triphenylphosphine: Synthesis, characterization and fluorescence Journal of Coordination Chemistry, 66 (10), 1837-1846 (2013).
1722.	79.	Nadtochenko, V.A., Levin, P.P., Zaichenko, N.L., Gostev, F.E., Shelaev, I.V., Shienok, A.I., Kol'Tsova, L.S., Sarkisov, O.M., Berlin, A.A. Spectral and kinetic parameters of transient species in the photolysis of naphthylmethylideneiminospiroanthropyran by excitation at different wavelengths: Nano- and femtosecond laser photolysis High Energy Chemistry, 47 (3), 120-126 (2013).
1723.	80.	Men, G., Zhang, G., Liang, C., Liu, H., Yang, B., Pan, Y., Wang, Z., Jiang, S. A dual channel optical detector for trace water chemodosimetry and imaging of live cells Analyst, 138 (10), 2847-2857 (2013).
1724.	81.	Jones, R.C., Herasymchuk, K., Mahdi, T., Petrov, A., Resanović, S., Vaughan, D.G., Lough, A.J., Quail, J.W., Koivisto, B.D., Wylie, R.S., Gossage, R.A. Tautomerism and metal complexation of 2-acylmethyl-2-oxazolines: A combined synthetic, spectroscopic, crystallographic and theoretical treatment Organic and Biomolecular Chemistry, 11 (21), 3484-3493 (2013).
1725.	82.	Levin, P.P., Tatikolov, A.S., Zaichenko, N.L., Shienok, A.I., Koltsova, L.S., Oskina, O.Yu., Mardaleishvili, I.R., Popov, L.D., Levchenkov, S.I., Berlin, A.A. Kinetics of photochemical reactions of multifunctional hybrid compounds based on

		spironaphthoxazines upon photoexcitation with light of different wavelengths Journal of Photochemistry and Photobiology A: Chemistry, 251, 141-147 (2013).
1726.	83.	Silva, A.M.S., Silva, V.L.M., Claramunt, R.M., María, D.S., Ferraro, M.B., Reviriego, F., Alkorta, I., Elguero, J. The structures of two aldazines: [1,1' -(1E,1' E)-hydrazine-1,2- diylidenebis(methan-1-yl-1-ylidene)dinaphthalen-2-ol] (Lumogen) and 2,2' -(1E,1' E)-hydrazine-1,2- diylidenebis(methan-1-yl-1-ylidene) diphenol (salicylaldazine) in the solid state and in solution Magnetic Resonance in Chemistry, 51 (9), 530-540 (2013).
1727.	84.	Filipczak, K., Karolczak, J., Lipkowski, P., Filarowski, A., Ziótek, M. Photochromic cycle of 2'-hydroxyacetophenone azine studied by absorption and emission spectroscopy in different solvents Journal of Chemical Physics, 139 (10), art. 104305, (2013).
1728.	85.	Houjou, H., Shingai, H., Yagi, K., Yoshikawa, I., Araki, K. Mutual interference between intramolecular proton transfer sites through the adjoining π -conjugated system in Schiff bases of double-headed, fused salicylaldehydes Journal of Organic Chemistry, 78 (18), 9021-9031 (2013).
1729.	86.	Köse, M., Kurtoglu, N., Gümüşsü, Ö., Tutak, M., McKee, V., Karakaş, D., Kurtoglu, M. Synthesis, characterization and antimicrobial studies of 2-[(E)-[(2-hydroxy-5-methylphenyl)imino]methyl]-4-[(E)-phenyldiazenyl]phenol as a novel azo-azomethine dye Journal of Molecular Structure, 1053, 89-99 (2013).
1730.	87.	Zanjanchi, F., Hadipour, N.L., Sabzyan, H., Beheshtian, J. Theoretical investigation of azo dyes adsorbed on cellulose fibers: 1. Electronic and bonding structures Journal of the Iranian Chemical Society, 10 (5), 985-999 (2013).
1731.	88.	Aiken, S., Gabbutt, C.D., Gillie, L.J., Heywood, J.D., Jacquemin, D., Rice, C.R., Heron, B.M. The remarkable hyperchromicity of ketohydrazone dyes and pigment lakes derived from 4-morpholino-2-naphthol European Journal of Organic Chemistry, (36), 8097-8107 (2013).
1732.	89.	Hara, S., Houjou, H., Yoshikawa, I., Sato, H., Yamano, A., Namatame, Y., Mutai, T., Araki, K. Spectroscopic tracking of schiff base compounds' hydrogen bonding reorganization associated with solid-to-solid phase transition Journal of Physical Chemistry A, 118 (34), 6979-6984 (2014).
1733.	90.	Wang, J., He, J., Zhi, C., Luo, B., Li, X., Pan, Y., Cao, X., Gu, H. Highly efficient synthesis of azos catalyzed by the common metal copper (0) through oxidative coupling reactions RSC Advances, 4 (32), 16607-16611 (2014).
1734.	91.	Pan, Z.-H., Zhou, J.-W., Luo, G.-G. Experimental and theoretical study of enol-keto prototropic tautomerism and photophysics of azomethine-BODIPY dyads Physical Chemistry Chemical Physics, 16 (30), 16290-16301 (2014).
1735.	92.	Mansouri, L., Zouchoune, B. Substitution effects and electronic properties of the azo dye (1-phenylazo-2-naphthol) species: A TD-DFT electronic spectra investigation Canadian Journal of Chemistry, 93 (5), 509-517 (2014).
1736.	93.	Irshaidat, T. Molecular properties and H-bonding in N-8-quinolinyl-2-hydroxynaphthalaldimine and its Azo-analogue Journal of the Chemical Society of Pakistan, 36 (6), 1071-1078 (2015).
1737.	94.	Dobkowski, J., Wnuk, P., Buczyńska, J., Pszona, M., Orzanowska, G., Frath, D., Ulrich, G., Massue, J., Mosquera-Vázquez, S., Vauthey, E., Radzewicz, C., Ziesel, R., Waluk, J. Substituent and solvent effects on the excited state deactivation channels in anils and boranils Chemistry - A European Journal, 21 (3), 1312-1327 (2015).
1738.	95.	Ghoneim, M.M., El-Ghamaz, N.A., El-Sonbati, A.Z., Diab, M.A., El-Bindary, A.A., Serag, L.S. Optical and thermal properties of azo derivatives of salicylic acid thin films

		Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 137, 1039-1049 (2015).
1739.	96.	Selvam, K., Sakamoto, H., Shiraishi, Y., Hirai, T. Photocatalytic secondary amine synthesis from azobenzenes and alcohols on TiO ₂ loaded with Pd nanoparticles New Journal of Chemistry, 39 (4), 2856-2860 (2015).
1740.	97.	Elroby, S.A., Aboud, S., Aziz, S.G., Hilal, R. Substituent effects on the absorption and vibrational spectra of some 2-hydroxy Schiff bases: DFT/TDDFT, natural bond orbital and experimental study Journal of Structural Chemistry, 56 (3), 414-427 (2015).
1741.	98.	Wang, J., Geng, H., Li, X., Pan, Y., Gu, H. Novel ultra-thin platinum nanowires and their catalytic applications Current Organic Chemistry, 19 (22), 2142-2155 (2015).
1742.	99.	Kozlecki, T., Tolstoy, P.M., Kwocz, A., Vovk, M.A., Kochel, A., Polowczyk, I., Tretyakov, P.Y., Filarowski, A. Conformational state of β -hydroxynaphthylamides: Barriers for the rotation of the amide group around CN bond and dynamics of the morpholine ring Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 149, 254-262 (2015).
1743.	100.	El-Bindary, A.A., Shoair, A.F., El-Sonbati, A.Z., Diab, M.A., Abdo, E.E. Geometrical structure, molecular docking and potentiometric studies of Schiff base ligand Journal of Molecular Liquids, 212, art. 5158, 576-584 (2015).
1744.	101.	Tiwari, K. Synthesis and Characterization of some Schiff Bases as Chemosensors for the Detection of Al ³⁺ and Water Content PhD Thesis, Banras Hindu University (2015).
1745.	102.	Tang, L., Zou, Y., Zhong, K., Bian, Y. A novel benzothiazole-based enaminone as a fluorescent probe for highly selective and sensitive detection of CN- RSC Advances, 6 (54), 48351-48356 (2016).
1746.	103.	Mahmudov, K.T., Pombeiro, A.J.L. Resonance-Assisted Hydrogen Bonding as a Driving Force in Synthesis and a Synthon in the Design of Materials Chemistry - A European Journal, 22 (46), 16356-16398 (2016).
1747.	104.	Levin, P.P., Tatikolov, A.S., Zaichenko, N.L., Shienok, A.I., Koltsova, L.S., Sherbakova, I.M., Mardaleishvili, I.R., Berlin, A.A. Kinetics of photochemical reactions of biphotocchromic compounds based on spironaphthopyran and enamine - Conjugation effect Photochemical and Photobiological Sciences, 15 (3), 382-388 (2016).
1748.	105.	Zaichenko, N.L., Shienok, A.I., Kol'tsova, L.S., Lyubimov, A.V., Mardaleishvili, I.R., Retivov, V.M., Belus', S.K., Ait, A.O. Synthesis of triarylimidazole hybrid compound with switchable luminescence Russian Journal of General Chemistry, 86 (5), 1022-1027 (2016).
1749.	106.	Adriano Junior, L., Fonseca, T.L., Castro, M.A. Solvent effects on the absorption spectrum and first hyperpolarizability of keto-enol tautomeric forms of anil derivatives: A Monte Carlo/quantum mechanics study Journal of Chemical Physics, 144 (23), art. 234511, (2016).
1750.	107.	Levin, P.P., Zaichenko, N.L., Tatikolov, A.S., Shienok, A.I., Kol'tsova, L.S., Shcherbakova, I.M., Os'kina, O.Y., Mardaleishvili, I.R., Ait, A.O., Berlin, A.A. Kinetics of photochemical reactions of a new biphotocchromic compound upon photolysis with light of different wavelengths High Energy Chemistry, 50 (4), 259-265 (2016).
1751.	108.	Dubonosov, A.D., Bren, V.A., Minkin, V.I. Enolimine-Ketoenamine Tautomerism for Chemosensings Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 229-252 (2016).

1752.	109.	Berber, H., Ateş, N.A., Özkütük, M.Y. Synthesis, Characterization And Spectroscopic Studies On Tautomerism And Acidity Constants Of Certain 4-(Phenyldiazenyl) Benzene-1,3-Diol Derivatives Anadolu University Journal of Science and Technology B- Theoretical Sciences, 4 (1), 11-28 (2016).
1753.	110.	Куцик-Савченко, Н.В. Электронное строение и а барьеры инверсии иминов Диссертация, Украинский государственный химико-технологический университет (2016).
1754.	111.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
1755.	112.	Kırca, B.K., Tari, G.Ö., Kaştaş, C.A., Odabaşoğlu, M., Büyükgüngör, O. Crystal structure, spectral characterization, molecular modeling studies and structural effects of the proton transfer process for (E)-5-methoxy-2-[(3,4-dimethylphenylimino) methyl]phenol Macedonian Journal of Chemistry and Chemical Engineering, 36 (2), 265-278 (2017).
1756.	113.	Gandhimathi, S., Balakrishnan, C., Theetharappan, M., Neelakantan, M.A., Venkataraman, R. Noncovalent interactions from electron density topology and solvent effects on spectral properties of Schiff bases Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 175, 134-144 (2017).
1757.	114.	Chithiraikumar, S., Gandhimathi, S., Neelakantan, M.A. Structural characterization, surface characteristics and non covalent interactions of a heterocyclic Schiff base: Evaluation of antioxidant potential by UV-visible spectroscopy and DFT Journal of Molecular Structure, 1137, 569-580 (2017).
1758.	115.	Liubimov, A.V., Venidiktova, O.V., Valova, T.M., Shienok, A.I., Koltsova, L.S., Liubimova, G.V., Popov, L.D., Zaichenko, N.L., Barachevsky, V.A. Photochromic and luminescence properties of a hybrid compound based on indoline spiropyran of the coumarin type and azomethinocoumarin Photochemical and Photobiological Sciences, 17 (10), 1365-1375 (2018).
1759.	116.	Zuterman, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B. Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
1760.	117.	Alreja, P., Kaur, N. Probing anion and cation with novel salicylidene Schiff base receptor appended with 1, 10-phenanthroline: Mimicking INHIBIT molecular logic gate Inorganica Chimica Acta, 480, 127-131 (2018).
1761.	118.	İbişoğlu, H., Eçik, E.T., Çiftçi, G.Y. Syntheses and characterizations of cyclotriphosphazenes containing 4-oxy-1-naphthaldehyde group Turkish Journal of Chemistry, 42, 1174-1183 (2018).
1762.	119.	Matović, L., Tasić, N., Trišović, N., Lađarević, J., Vitnik, V., Vitnik, Ž., Grgur, B., Mijin, D. On the azo dyes derived from benzoic and cinnamic acids used as photosensitizers in dye-sensitized solar cells Turkish Journal of Chemistry, 43 (4), 1183-1203 (2019).
1763.	120.	Khojasteh, V., Kakanejadifard, A., Zabardasti, A., Azarbani, F. Spectral, structural, solvatochromism, biological and computational investigation of some new azo-azomethines containing N-alkylpyridinium salts Journal of Molecular Structure, 1175, 261-268 (2019).

1764.	121.	Masoud, M.S., Beltagi, A.M., Moutawa, H.A. Synthesis, spectral, molecular modeling, thermal analysis studies of orange (II) complexes Journal of Molecular Structure, 1175, 335-345 (2019).
1765.	122.	Popova, M.V., Dobrydnev, A.V., Dyakonenko, V.V., Konovalova, I.S., Shishkina, S.V., Volovenko, Y.M. Expected and unforeseen reactions of 2,3,3-trimethyl-1λ 6 -isothiazolidine-1,1,4-trione and their spiro derivative Tetrahedron, 75 (9), 1231-1245 (2019).
1766.	123.	Georgiev, A., Stoilova, A., Dimov, D., Yordanov, D., Zhivkov, I., Weiter, M. Synthesis and photochromic properties of some N-phthalimide azo-azomethine dyes. A DFT quantum mechanical calculations on imine-enamine tautomerism and trans-cis photoisomerization Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 210, 230-244 (2019).
1767.	124.	Oketani, R., Takahashi, H., Hoquante, M., Brandel, C., Cardinael, P., Coquerel, G. NH-form of a threonine-based Schiff base in the solid state Journal of Molecular Structure, 1184, 36-40 (2019).
1768.	125.	Marrero-Carballo, R., Tun-Rosado, F., Mena-Rejón, G.J., Cáceres-Castillo, D., Barroso, J., Murillo, F., Merino, G., Quijano-Quiñones, R.F. The base-catalyzed keto-enol tautomerism of chrysophanol anthrone. A DFT investigation of the base-catalyzed reaction Molecular Simulation, 45 (9), 716-723 (2019).
1769.	126.	Dolaz, M., Kose, M. The metal complexes of new Schiff bases containing phosphonate groups and catalytic properties for alkane oxidation Applied Organometallic Chemistry, 33 (8), art. e4970 (2019).
1770.	127.	Chinta, R.V.R.N., Aradhyula, B.P.R., Murali, A.C., Venkatasubbaiah, K. Synthesis, photophysical and electrochemical properties of naphthaldimine based boron complexes Journal of Organometallic Chemistry, 891, 20-27 (2019).
1771.	128.	Kaştaş, G., Albayrak Kaştaş, Ç., Tabak, A. Investigation of molecular structure and solvent/temperature effect on tautomerism in (E)-4,6-dibromo-3-methoxy-2-[(p-tolylimino)methyl]phenol, a new thermochromic Schiff base, by using XRD, FT-IR, UV-vis, NMR and DFT methods Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 222, art. 117198 (2019).
1772.	129.	Assaleh, M.H., Božić, A.R., Bjelogrić, S., Milošević, M., Simić, M., Marinković, A.D., Cvijetić, I.N. Water-induced isomerism of salicylaldehyde and 2-acetylpyridine mono- and bis-(thiocarbohydrazones) improves the antioxidant activity: spectroscopic and DFT study Structural Chemistry, 30 (6), 2447-2457 (2019).
1773.	130.	Patil, C.J., Rajput, S.V. Coupling Reactions Involving Aryldiazonium salt: Part-ix. Review on Synthesis of azo-Phenolic Derivatives, their Applications and Biological Activities International Journal of Recent Scientific Research, 10 (04G), 32144-32156 (2019).
1774.	131.	Das, B., Chakraborty, A., Chakraborty, S. Experimental and theoretical investigation of ground state intramolecular proton transfer (GSIPT) in salicylideneaniline Schiff base derivatives in polar protic medium Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 225, art. 117443 (2020) .
1775.	132.	Levin, P.P., Liubimov, A.V., Shashkov, A.S., Mardaleishvili, I.R., Venidiktova, O.V., Shienok, A.I., Koltsova, L.S., Astafiev, A.A., Barachevsky, V.A., Zaichenko, N.L. Multiple fluorescence of tetraarylimidazole and azomethinocoumarin dyad with dual excited-state intramolecular proton transfer Dyes and Pigments, 183, art. no. 108716 (2020).
1776.	133.	Atzin-Macedo, C.M., Pastor-Ramírez, C., González-Peláez, R., Pérez-Flores, F.J., Hernández-

		Anzaldo, S., Vazquez-Lima, H., Reyes-Ortega, Y. Tautomeric Study of Schiff Bases Derived from o-Dihydroxybenzaldehyde by UV-Vis, IR, ¹ H NMR, ¹³ C NMR Spectroscopy and Computational Modeling. <i>ChemistrySelect</i> , 5 (36), 11120-11126 (2020).
1777.	134.	Astaŕeva, T.V., Arsenyev, M.V., Rumyantsev, R.V., Fukin, G.K., Cherkasov, V.K., Poddelsky, A.I. Imine-based catechols and o-benzoquinones: Synthesis, structure, and features of redox behavior <i>ACS Omega</i> , 5 (35), 22179-22191 (2020).
C.40. Environmetric assessment of pollutant concentrations effects on forest ecosystems. D.Antonova, L.Antonov, V.Petrov, V.Simeonov, S.Tsakovski, S.Barun & W.Flueckiger; <i>Ecological Chemistry and Engineering</i> , 11, 439-448 (2004)		
C.41. Tautomerism in some aromatic Schiff bases and related azo-compounds: a linear solvation energy relationship study. L.Antonov, W.M.F.Fabian & P.J.Taylor; <i>Journal of Physical Organic Chemistry</i> , 18, 1169-1175 (2005)		
1778.	1.	Murray, B.A. Reactions of Aldehydes and Ketones and their Derivatives <i>Organic Reaction Mechanisms</i> 2005, 1-45 (2008).
1779.	2.	Dziembowska, T., Szafran, M., Katrusiak, A., Rozwadowski, Z. Crystal structure of and solvent effect on tautomeric equilibrium in Schiff base derived from 2-hydroxy-1-naphthaldehyde and methylamine studied by X-ray diffraction, DFT, NMR and IR methods <i>Journal of Molecular Structure</i> , 929 (1-3), 32-42 (2009).
1780.	3.	Магдалинова, Н.А., Волкова, Т.Г., Ключев, М.В. Квантово-химическое изучение имин-енаминного равновесия с учетом эффектов растворителя <i>Вестник Ивановского государственного университета</i> , (2), 31-34 (2009).
1781.	4.	Nedeltcheva, D., Kurteva, V., Damyanova, B., Popov, S. Gas - phase tautomerism in 1 - phenylazonaphthalene - 4 - ol: verification of the responses of individual tautomers <i>Rapid Communications in Mass Spectrometry</i> , 23 (11), 1724-1734 (2009).
1782.	5.	Nedeltcheva, D., Kurteva, V., Topalova, I. Gas-phase tautomerism in hydroxy azo dyes-from 4-phenylazo-1-phenol to 4-phenylazo-anthracen-1-ol <i>Rapid Communications in Mass Spectrometry</i> , 24 (6), 714-720 (2010).
1783.	6.	Sathyanaranyamoorthi, V., Brindha, S., Kannappan, V. Polarizable continuum studies on methyl and ethyl substituted 2,4-pentanedione <i>Journal of Solution Chemistry</i> , 39 (4), 559-565 (2010).
1784.	7.	Antony Muthu Prabhu, A., Venkatesh, G., Rajendiran, N. Azo-hydrazo tautomerism and inclusion complexation of 1-phenylazo-2- naphthols with various solvents and β -cyclodextrin <i>Journal of Fluorescence</i> , 20 (4), 961-972 (2010).
1785.	8.	Dobosz, R., Skotnicka, A., Rozwadowski, Z., Dziembowska, T., Gawinecki, R. Stability of N-(ortho-hydroxynaphthylmethylene)methylamines and their tautomers <i>Journal of Molecular Structure</i> , 979 (1-3), 194-199 (2010).
1786.	9.	Minkin, V.I., Tsukanov, A.V., Dubonosov, A.D., Bren, V.A. Tautomeric Schiff bases: Iono-, solvato-, thermo- and photochromism <i>Journal of Molecular Structure</i> , 998 (1-3), 179-191 (2011).
1787.	10.	Ferreira, G.R., Garcia, H.C., Couri, M.R.C., Dos Santos, H.F., De Oliveira, L.F.C. On the azo/hydrazo equilibrium in Sudan i azo dye derivatives <i>Journal of Physical Chemistry A</i> , 117 (3), 642-649 (2013).
1788.	11.	Rahmani, Z., Saidi, M., Yousfi, M., Dakmouche, M. Experimental and theoretical study on lipophilicity of synthetic 1,2-dithiole-3-thiones <i>Asian Journal of Chemistry</i> , 25 (16), 9159-9163 (2013).
1789.	12.	S��gerie, A., Li��geois, V., Champagne, B., Lin, L.-L., Luo, Y. Theoretical insight into the inelastic electron tunneling spectra of an anil derivative

		Journal of Physical Chemistry A, 117 (48), 12783-12795 (2013).
1790.	13.	Vasilu, I.C., Ionita, I., Matei, A., Elisa, M., Iordanescu, R., Feraru, I., Emandi, A. Silicophosphate films doped with organic compounds for nonlinear optical applications Journal of Sol-Gel Science and Technology, 73 (3), 586-590 (2015).
1791.	14.	Kozlecki, T., Tolstoy, P.M., Kwocz, A., Vovk, M.A., Kochel, A., Polowczyk, I., Tretyakov, P.Y., Filarowski, A. Conformational state of β -hydroxynaphthylamides: Barriers for the rotation of the amide group around CN bond and dynamics of the morpholine ring Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 149, 254-262 (2015).
1792.	15.	Matović, L., Tasić, N., Trišović, N., Lađarević, J., Vitnik, V., Vitnik, Ž., Grgur, B., Mijin, D. On the azo dyes derived from benzoic and cinnamic acids used as photosensitizers in dye-sensitized solar cells Turkish Journal of Chemistry, 43 (4), 1183-1203 (2019).
1793.	16.	Georgiev, A., Stoilova, A., Dimov, D., Yordanov, D., Zhivkov, I., Weiter, M. Synthesis and photochromic properties of some N-phthalimide azo-azomethine dyes. A DFT quantum mechanical calculations on imine-enamine tautomerism and trans-cis photoisomerization Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 210, 230-244 (2019).
1794.	17.	Al Zoubi, W., Jirjees, V., Suleman, V., Al-Hamdani, A.A.S., Ahmed, S.D., Kim, Y.G., Ko, Y.G. Synthesis and bioactivity studies of novel Schiff bases and their complexes Journal of Physical Organic Chemistry, 32 (11), art. e4004 (2019).
1795.	18.	Mohamed Wannas, N., Al-Hamdani, A.A.S., Al Zoubi, W. Spectroscopic characterization for new complexes with 2,2'-(5,5-dimethylcyclohexane-1,3-diylidene)bis(azan-1-yl-1-ylidene)dibenzoic acid Journal of Physical Organic Chemistry, 33 (11), art. no. e4099 (2020).
1796.	19.	Gómez, A., Jara, G., Flores, E., Maldonado, T., Godoy, F., Muñoz-Osses, M., Vega, A., Mera, R., Silva, C., Pavez, J. Synthesis of mono/dinuclear rhenium(i) tricarbonyl substituted with 4-mercaptopyridine related ligands: Spectral and theoretical evidence of thiolate/thione interconversion New Journal of Chemistry, 44 (33), pp. 14171-14179 (2020).
C.42. Variable-Temperature X-ray Crystallographic and DFT Computational Study of the N-H...O/N...H-O Tautomeric Competition in 1-(Arylazo)-2-naphthols. Outline of a Transition-State Hydrogen-Bond Theory. P.Gilli, V.Bertolasi, L.Pretto, <u>L.Antonov</u> & G.Gilli; <i>Journal of The American Chemical Society</i> , 127 , 4943-4953 (2005)		
1797.	1.	Sobczyk, L., Grabowski, S.J., Krygowski, T.M. Interrelation between H-bond and π -electron delocalization Chemical Reviews, 105 (10), 3513-3560 (2005).
1798.	2.	Douhal, A., Sanz, M., Tormo, L. Femtochemistry of orange II in solution and in chemical and biological nanocavities Proceedings of the National Academy of Sciences of the United States of America, 102 (52), 18807-18812 (2005).
1799.	3.	Lyssenko, K.A., Antipin, M.Yu. The nature and energy characteristics of intramolecular hydrogen bonds in crystals Russian Chemical Bulletin, 55 (1), 1-15 (2006).
1800.	4.	Buemi, G. Intramolecular hydrogen bonds. methodologies and strategies for their strength evaluation Hydrogen Bonding - New Insights, 51-107 (2006).
1801.	5.	Rybarczyk-Pirek, A.J., Dubis, A.T., Grabowski, S.J., Nawrot-Modranka, J. Intramolecular hydrogen bonds in crystals of thiophosphorylbenzopyrane derivatives - X-ray and FT-IR studies Chemical Physics, 320 (2-3), 247-258 (2006).
1802.	6.	Sauer, M., Yeung, C., Chong, J.H., Patrick, B.O., MacLachlan, M.J. N-salicylideneanilines: Tautomers for formation of hydrogen-bonded capsules, clefts, and

		chains Journal of Organic Chemistry, 71 (2), 775-788 (2006).
1803.	7.	Pakiari, A.H., Eskandari, K. The chemical nature of very strong hydrogen bonds in some categories of compounds Journal of Molecular Structure: THEOCHEM, 759 (1-3), 51-60 (2006).
1804.	8.	Grabowski, S.J., Dubis, A.T., Palusiak, M., Leszczynski, J. Heteronuclear intermolecular resonance-assisted hydrogen bonds. The structure of pyrrole-2-carboxamide (PyCa) Journal of Physical Chemistry B, 110 (12), 5875-5882 (2006).
1805.	9.	Grabowski, S.J., Sokalski, W.A., Leszczynski, J. The possible covalent nature of N-H...O hydrogen bonds in formamide dimer and related systems: An ab initio study Journal of Physical Chemistry A, 110 (14), 4772-4779 (2006).
1806.	10.	Koll, A., Karpfen, A., Wolschann, P. Structural and energetic consequences of the formation of intramolecular hydrogen bonds Journal of Molecular Structure, 790 (1-3), 55-64 (2006).
1807.	11.	Lankau, T., Yu, C.-H. The relationship between the energy of activation for the proton-movement and the difference in proton affinities of bonded partners in double well hydrogen bonds Chemical Physics Letters, 424 (4-6), 264-267 (2006).
1808.	12.	Musin, R.N., Mariam, Y.H. An integrated approach to the study of intramolecular hydrogen bonds in malonaldehyde enol derivatives and naphthazarin: Trend in energetic versus geometrical consequences Journal of Physical Organic Chemistry, 19 (7), 425-444 (2006).
1809.	13.	Wang, J., Zhu, D.-S., Shao, K.-Z., Xu, L. {2,2' -[Ethane-1,2-diylbis(nitrilomethylidyne)]- diphenoxyacetatozinc(II) methanol solvate Acta Crystallographica Section E: Structure Reports Online, 62 (8), m1884-m1886 (2006).
1810.	14.	Rospenk, M., Majewska, P., Czarnik-Matusiewicz, B., Sobczyk, L. Polarized IR spectra of resonance assisted hydrogen bond (RAHB) in 2-hydroxyazobenzenes Chemical Physics, 326 (2-3), 458-464 (2006).
1811.	15.	Grabowski, S.J. Theoretical studies of strong hydrogen bonds Annual Reports on the Progress of Chemistry - Section C, 102 (1), 131-165 (2006).
1812.	16.	Srinivas, K., Sitha, S., Sridhar, B., Jayathirtha Rao, V., Bhanuprakash, K., Ravikumar, K. Tautomerism of bis(2,4-benzyloxy)-6-(5H)-one-1,3,5-triazine: A combined crystallographic and quantum-chemical investigation Structural Chemistry, 17 (6), 561-568 (2006).
1813.	17.	Grabowski, S.J., Leszczynski, J. Unrevealing the nature of hydrogen bonds: π -electron delocalization shapes h-bond features: Intramolecular and intermolecular resonance-assisted hydrogen bonds Hydrogen Bonding - New Insights, 487-512 (2006).
1814.	18.	Nagy, P.I., Fabian, W.M.F. Theoretical study of the enol imine \leftrightarrow enaminone tautomeric equilibrium in organic solvents Journal of Physical Chemistry B, 110 (49), 25026-25032 (2006).
1815.	19.	Utas, J. Hydrogen Bonded Phenols as Models for Redox-Active Tyrosines in Enzymes Doctoral thesis, Stockholm University (2006).
1816.	20.	Lankau, T., Yu, C.-H. Correlated proton motion in hydrogen bonded systems: Tuning proton affinities Physical Chemistry Chemical Physics, 9 (2), 299-310 (2007).
1817.	21.	Mínguez Espallargas, G., Brammer, L. Characterizations and Applications: Diffraction Studies in Crystal Engineering Making Crystals by Design: Methods, Techniques and Applications, 241-265 (2007).
1818.	22.	Ristori, S., Salvati, A., Martini, G., Spalla, O., Pietrangeli, D., Rosa, A., Ricciardi, G.

		Synthesis and liposome insertion of a new poly(carboranylalkylthio) porphyrazine to improve potentiality in multiple-approach cancer therapy Journal of the American Chemical Society, 129 (10), 2728-2729 (2007).
1819.	23.	Małecka, M. Intramolecular N{single bond}H...O resonance-assisted hydrogen bonds in crystal structures of oxaphosphanes and chromones-DFT calculations and AIM analysis Journal of Molecular Structure, 831 (1-3), 135-143 (2007).
1820.	24.	Sanz, P., Mó, O., Yáñez, M., Elguero, J. Resonance-assisted hydrogen bonds: A critical examination. Structure and stability of the enols of β -diketones and β -enaminones Journal of Physical Chemistry A, 111 (18), 3585-3591 (2007).
1821.	25.	Roy, D., Sunoj, R.B. Intramolecular nonbonding interactions in organoseleniums: Quantification using a computational thermochemical approach Journal of Molecular Structure: THEOCHEM, 809 (1-3), 145-152 (2007).
1822.	26.	Dabbagh, H.A., Noroozl-Pesyan, N., Najafi-Chermahini, A.R., Patrick, B.O., James, B.R. Diastereoselective formation of 18-membered ring BINOL-hydrogen phosphonate dimers - Quasicovalent hydrogen bonds? Canadian Journal of Chemistry, 85 (7-8), 466-474 (2007).
1823.	27.	Sanz, P., Mó, O., Yáñez, M., Elguero, J. Non-resonance-assisted hydrogen bonding in hydroxymethylene and aminomethylene cyclobutanones and cyclobutenones and their nitrogen counterparts ChemPhysChem, 8 (13), 1950-1958 (2007).
1824.	28.	Koll, A., Karpfen, A., Wolschann, P. The energy of the intramolecular hydrogen bond in chloro-substituted N-methyl-salicylidene imines Journal of Molecular Structure, 844-845, 268-277 (2007).
1825.	29.	Palusiak, M., Simon, S., Solà, M. The proton transfer reaction in malonaldehyde derivatives: Substituent effects and quasi-aromaticity of the proton bridge Chemical Physics, 342 (1-3), 43-54 (2007).
1826.	30.	Özen, A.S., Doruker, P., Aviyente, V. Effect of cooperative hydrogen bonding in azo-hydrazone tautomerism of azo dyes Journal of Physical Chemistry A, 111 (51), 13506-13514 (2007).
1827.	31.	Gonçalves, B.T., Esteves, P.M., Pinto, A.C., Kaiser, C.R., Da Silva, F.L., Miguez, E., Da Silva, J.F.M. Anisotropic and hydrogen bonding effects in phenylglyoxamides and mandelamides: Theoretical and NMR conformational evaluation Magnetic Resonance in Chemistry, 46 (5), 418-426 (2008).
1828.	32.	Prajapati, R., Mishra, L., Grabowski, S.J., Govil, G., Dubey, S.K. Supramolecular architectures constructed through self-assembly of a chalcone and substituted diazo- β -diketones Journal of Molecular Structure, 879 (1-3), 1-6 (2008).
1829.	33.	Espallargas, G.M., Brammer, L., Allan, D.R., Pulham, C.R., Robertson, N., Warren, J.E. Noncovalent interactions under extreme conditions: High-pressure and low-temperature diffraction studies of the isostructural metal-organic networks (4-chloropyridinium) $_2$ [CoX $_4$] (X = Cl, Br) Journal of the American Chemical Society, 130 (28), 9058-9071 (2008).
1830.	34.	Li, Q., Wang, N., Yu, Z. Solvent effect on the role of methyl groups in formation of O...HO hydrogen bond in dimethyl ether-methanol complex Journal of Molecular Structure: THEOCHEM, 862 (1-3), 74-79 (2008).
1831.	35.	Schmidt, M.U., Brüning, J., Wirth, D., Bolte, M. Two azo pigments based on B-naphthol Acta Crystallographica Section C: Crystal Structure Communications, 64 (9), o474-o477 (2008).

1832.	36.	Rivera, S. Inelastic neutron scattering and quantum mechanical calculations of polymorphic organic crystals Dissertation, Syracuse University (2008).
1833.	37.	Palusiak, M., Simon, S., Solà, M. Interplay between intramolecular resonance-assisted hydrogen bonding and local aromaticity. II. 1,3-dihydroxyaryl-2-aldehydes Journal of Organic Chemistry, 74 (5), 2059-2066 (2009).
1834.	38.	Filarowski, A., Koll, A., Sobczyk, L. Intramolecular hydrogen bonding in o-hydroxy aryl Schiff bases Current Organic Chemistry, 13 (2), 172-193 (2009).
1835.	39.	Strzelczyk, W., Sobieszczak, P., Palusiak, M. Bonding in β -diketiminato boron and its analogues Structural Chemistry, 20 (5), 919-923 (2009).
1836.	40.	Pavlović, G., Racané, L., Čičak, H., Tralić-Kulenović, V. The synthesis and structural study of two benzothiazolyl azo dyes: X-ray crystallographic and computational study of azo-hydrazone tautomerism Dyes and Pigments, 83 (3), 354-362 (2009).
1837.	41.	Safi, S.Z. Preference of 4-Aminomethylene-1-methylpyrazolin-5-one tautomer; DFT and AIM calculations The Islamic University Journal (Series of Natural Studies and Engineering), 17 (2), 29-41 (2009).
1838.	42.	Corrêa, R.S., dos Santos, M.H., Nagem, T.J., Ellena, J. On the relationships between molecular conformations and intermolecular contacts toward crystal self-assembly of mono-, di-, tri-, and tetra-oxygenated xanthone derivatives Structural Chemistry, 21 (3), 555-563 (2010).
1839.	43.	Małecka, M. DFT studies and AIM analysis of intramolecular N-H...O hydrogen bonds in 3-aminomethylene-2 methoxy-5,6-dimethyl-2-oxo-2,3-dihydro-2λ5-[1,2]oxaphosphinin-4-one and its derivatives Structural Chemistry, 21 (1), 175-184 (2010).
1840.	44.	Šponer, J.E., Vázquez-Mayagoitia, Á., Sumpter, B.G., Leszczynski, J., Šponer, J., Otyepka, M., Banáš, P., Fuentes-Cabrera, M. Theoretical studies on the intermolecular interactions of potentially primordial base-pair analogues Chemistry - A European Journal, 16 (10), 3057-3065 (2010).
1841.	45.	Koll, A., Janski, J., Karpfen, A., Wolschann, P. Bifunctional influence of 3-chloro substitution on structural and energetic characteristics of N-methyl-salicylidene imines Journal of Molecular Structure, 976 (1-3), 19-29 (2010).
1842.	46.	Lee, H.Y., Song, X., Park, H., Baik, M.-H., Lee, D. Torsionally responsive C 3-symmetric Azo dyes: Azo-hydrazone tautomerism, conformational switching, and application for chemical sensing Journal of the American Chemical Society, 132 (34), 12133-12144 (2010).
1843.	47.	Ali Heydar, P., Maryam, F. Theoretical study of heteroatom resonance-assisted hydrogen bond: Effect of substituent on π -delocalization Iranian Journal of Chemistry and Chemical Engineering, 29 (4), 197-210 (2010).
1844.	48.	Jaworska, M., Hrynczyszyn, P.B., Wefniak, M., Wojtczak, A., Nowicka, K., Krasiński, G., Kassassir, H., Ciesielski, W., Potrzebowski, M.J. Solid state NMR spectroscopy as a precise tool for assigning the tautomeric form and proton position in the intramolecular bridges of o-hydroxy schiff bases Journal of Physical Chemistry A, 114 (47), 12522-12530 (2010).
1845.	49.	Palusiak, M. Interplay between resonance-assisted hydrogen bond and aromaticity

		Wiadomości Chemiczne, 64 (3-4), 263-283 (2010).
1846.	50.	Rybalova, T.V., Karpov, V.M., Gatilov, Yu.V. A temperature study of enaminoimine tautomerism in the cocrystals of 3-(1-amino-2,2,2-trifluoroethylidene)- 2-imino-1,1,4,5,6,7-hexafluoroindane with dioxane by single crystal XRD Journal of Structural Chemistry, 52 (1), 216-220 (2011).
1847.	51.	Bankiewicz, B., Palusiak, M. Does electron density in bond critical point reflect the formal charge distribution in H-bridges? The case of charge-assisted hydrogen bonds (CAHBs) Computational and Theoretical Chemistry, 966 (1-3), 113-119 (2011).
1848.	52.	Domínguez, O., Rodríguez-Molina, B., Rodríguez, M., Ariza, A., Farfán, N., Santillan, R. X-Ray crystallographic and spectroscopic properties of eight Schiff bases as evidence of the proton transfer reaction. Role of the intermolecular hydrogen bond New Journal of Chemistry, 35 (1), 156-164 (2011).
1849.	53.	Cruz-Cabeza, A.J., Groom, C.R. Identification, classification and relative stability of tautomers in the cambridge structural database CrystEngComm, 13 (1), 93-98 (2011).
1850.	54.	Zanjanchi, F., Hadipour, N.L., Sabzyan, H., Beheshtian, J. Photo-oxidation of phenylazonaphthol dyes and their reactivity analysis in the gas phase and adsorbed on cellulose fibers states using DFT and TD-DFT Dyes and Pigments, 89 (1), 16-22 (2011).
1851.	55.	Gaspar, A., Teixeira, F., Uriarte, E., Milhazes, N., Melo, A., Cordeiro, M.N.D.S., Ortuso, F., Alcaro, S., Borges, F. Towards the Discovery of a Novel Class of Monoamine Oxidase Inhibitors: Structure-Property-Activity and Docking Studies on Chromone Amides ChemMedChem, 6 (4), 628-632 (2011).
1852.	56.	Grabowski, S.J. What is the covalency of hydrogen bonding? Chemical Reviews, 111 (4), 2597-2625 (2011).
1853.	57.	Lankau, T., Yu, C.-H. A quantum description of the proton movement in an idealized NHN + bridge Physical Chemistry Chemical Physics, 13 (28), 12758-12769 (2011).
1854.	58.	Perdih, F., Perdih, A. Lignin selective dyes: Quantum-mechanical study of their characteristics Cellulose, 18 (5), 1139-1150 (2011).
1855.	59.	Badave, K., Patil, Y., Gonnade, R., Srinivas, D., Dasgupta, R., Khan, A., Rane, S. Azide derivatized anticancer agents of Vitamin K3: X-ray structural, DSC, resonance spectral and API studies Journal of Molecular Structure, 1006 (1-3), 288-296 (2011).
1856.	60.	Fragoza-Mar, L., Pérez-Caballero, G., García-Gutierrez, J.L., Jiménez-Cruz, F. Modeling and theory in resonance assisted hydrogen bonding (RAHB) systems: β -diketones (OHO) and arylazophenols (NHO) Molecular Systems: Theory and Modeling (F.Jiménez-Cruz, J.L.García-Gutiérrez, editors), 97-122, Transworld Research Network (2011).
1857.	61.	Rubčić, M., Užarević, K., Halasz, I., Bregović, N., Mališ, M., Dilović, I., Kokan, Z., Stein, R.S., Dinnebier, R.E., Tomišić, V. Desmotropy, polymorphism, and solid-state proton transfer: Four solid forms of an aromatic o-hydroxy schiff base Chemistry - A European Journal, 18 (18), 5620-5631 (2012).
1858.	62.	Bekö, S.L., Hammer, S.M., Schmidt, M.U. Crystal structures of the hydration states of pigment red 57:1 Angewandte Chemie - International Edition, 51 (19), 4735-4738 (2012).
1859.	63.	Kim, B., Yalaz, C., Pan, D. Synthesis and characterization of membrane stable bis(arylimino)isoindole dyes and their potential application in nano-biotechnology

		Tetrahedron Letters, 53 (32), 4134-4137 (2012).
1860.	64.	Smaga, A., Sadlej, J. Computational study on interaction energy changes during double proton transfer process Computational and Theoretical Chemistry, 998, 120-128 (2012).
1861.	65.	Jami, A.K., Baskar, V. Tetranuclear stiboxanes (RSb) 4O 6, exhibiting an adamantane-type structure Dalton Transactions, 41 (40), 12524-12529 (2012).
1862.	66.	Martyniak, A., Majerz, I., Filarowski, A. Peculiarities of quasi-aromatic hydrogen bonding RSC Advances, 2 (21), 8135-8144 (2012).
1863.	67.	Kinchia, S., Joshi, B.S., Saraswat, P., Sharma, A., Joshi, J. Novel boron complexes derived from catechol and arylazonaphthols Rasayan Journal of Chemistry, 5 (4), 460-462 (2012).
1864.	68.	Pentelencik, Z. Reaktivität von Lithiumphosphanid gegenüber dem voluminösen Heteroallen 2,4,6-Tri-tert-butylphenylisocyanat Doktor, Universität Stuttgart (2012).
1865.	69.	Durlak, P., Latajka, Z. Ab initio molecular dynamics study of the very short O-H-O hydrogen bonds in the condensed phases Journal of Chemical Theory and Computation, 9 (1), 65-72 (2013).
1866.	70.	Chi, Y.-J., Yu, H.-T. Intramolecular cyclization reaction mechanism and regioselectivities of unsubstituted and benzene-substituted 4-penteniminy radicals: A DFT investigation Computational and Theoretical Chemistry, 1005, 75-83 (2013).
1867.	71.	Racan�, L., Mihali�, Z., Ceri�, H., Popovi�, J., Trali�-Kulenovi�, V. Synthesis, structure and tautomerism of two benzothiazolyl azo derivatives of 2-naphthol: A crystallographic, NMR and computational study Dyes and Pigments, 96 (3), 672-678 (2013).
1868.	72.	Nicol�s-V�zquez, I., P�rez-Caballero, G., Jim�nez, A.G., Rangel, G.G., Ruvalcaba, R.M. A novel azocompound, 2-(4-phenylazoaniline)-4-phenylphenol: Spectroscopic and quantum-chemical approach International Journal of Quantum Chemistry, 113 (8), 1107-1115 (2013).
1869.	73.	Durlak, P., Mierzwicki, K., Latajka, Z. Investigations of the very short hydrogen bond in the crystal of nitromalonamide via car-parrinello and path integral molecular dynamics Journal of Physical Chemistry B, 117 (18), 5430-5440 (2013).
1870.	74.	Roohi, H., Roshan, K., Nokhastean, R. Can the substituent in the para position of anilide ion influence the N...H-F → N-H...F-switching: A quantum chemical study Structural Chemistry, 24 (4), 1319-1330 (2013).
1871.	75.	Zanjanchi, F., Hadipour, N.L., Sabzyan, H., Beheshtian, J. Theoretical investigation of azo dyes adsorbed on cellulose fibers: 1. Electronic and bonding structures Journal of the Iranian Chemical Society, 10 (5), 985-999 (2013).
1872.	76.	Duarte, L., Giuliano, B.M., Reva, I., Fausto, R. Tautomers and UV-induced photoisomerization of a strongly intramolecularly H-bonded aromatic azo-dye: 1-(cyclopropyl)diazo-2-naphthol Journal of Physical Chemistry A, 117 (41), 10671-10680 (2013).
1873.	77.	Aiken, S., Gabbutt, C.D., Gillie, L.J., Heywood, J.D., Jacquemin, D., Rice, C.R., Heron, B.M. The remarkable hyperchromicity of ketohydrazone dyes and pigment lakes derived from 4-morpholino-2-naphthol European Journal of Organic Chemistry, (36), 8097-8107 (2013).
1874.	78.	Chi, Y.-J., Yu, H.-T. Construction of six-membered nitrogen-heterocycles via intramolecular cyclization of iminyl radical: A theoretical perspective

		Computational and Theoretical Chemistry, 1025, 52-57 (2013).
1875.	79.	Roohi, H., Hejazi, F., Mohtamedifar, N., Jahantab, M. Excited state intramolecular proton transfer (ESIPT) in 2-(2'-hydroxyphenyl)benzoxazole and its naphthalene-fused analogs: A TD-DFT quantum chemical study Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 118, 228-238 (2014).
1876.	80.	Ortegón-Reyna, D., Garcías-Morales, C., Padilla-Martínez, I., García-Báez, E., Aríza-Castolo, A., Peraza-Campos, A., Martínez-Martínez, F. NMR structural study of the prototropic equilibrium in solution of schiff bases as model compounds Molecules, 19 (1), 459-481 (2014).
1877.	81.	Cui, G., Guan, P.-J., Fang, W.-H. Photoinduced proton transfer and isomerization in a hydrogen-bonded aromatic Azo compound: A CASPT2//CASSCF study Journal of Physical Chemistry A, 118 (26), 4732-4739 (2014).
1878.	82.	Yuan, L., Yu, H.-T. Cascade cyclization of 1-(2-yl-3-phenylprop-2-enyl)-6-oxo-1,6-dihydropyridine-2-carbonitrile radical: Mechanistic insights from DFT study Computational and Theoretical Chemistry, 1044, 1-9 (2014).
1879.	83.	Durlak, P., Latajka, Z. Car-Parrinello and path integral molecular dynamics study of the intramolecular hydrogen bonds in the crystals of benzoylacetone and dideutero benzoylacetone Physical Chemistry Chemical Physics, 16 (42), 23026-23037 (2014).
1880.	84.	Roohi, H., Mohtamedifar, N., Hejazi, F. Intramolecular photoinduced proton transfer in 2-(2'-hydroxyphenyl)benzazole family: A TD-DFT quantum chemical study Chemical Physics, 444, 66-76 (2014).
1881.	85.	Romero-Fernández, M.P., Ávalos, M., Babiano, R., Cintas, P., Jiménez, J.L., Light, M.E., Palacios, J.C. Pseudo-cyclic structures of mono- and di-azaderivatives of malondialdehydes. Synthesis and conformational disentanglement by computational analyses Organic and Biomolecular Chemistry, 12 (44), 8997-9010 (2014).
1882.	86.	Duarte, L. Photochemistry and Structure of Aromatic Azo Compounds Isolated in Cryogenic Noble-Gas Matrices Tese de doutoramento, Universidade de Coimbra (2014).
1883.	87.	Otani, J., Matsumura, M., Fujii, K., Uekusa, H. Structure determination from powder X-ray diffraction data of black azo (hydrazone) pigments Chemistry Letters, 44 (5), 662-664 (2015).
1884.	88.	Lin, S.-T., Lin, L.-H., Lin, Y.-C., Ding, M.-F. Substituent effect on the tautomerization of 1-arylaazonaphthalen-2-ols by mass spectrometric analysis Journal of the Chinese Chemical Society, 62 (3), 257-262 (2015).
1885.	89.	Romero-Fernández, M.P., Ávalos, M., Babiano, R., Cintas, P., Jiménez, J.L., Palacios, J.C. Rethinking aromaticity in H-bonded systems. Caveats for transition structures involving hydrogen transfer and π -delocalization Journal of Physical Chemistry A, 119 (3), 525-534 (2015).
1886.	90.	Otani, J., Kikuchi, T., Higashida, S., Harada, T., Matsumura, M. Synthesis and properties of azonaphtharylamide pigments having arylamide groups at 2- and 7-positions Journal of Molecular Structure, 1084, 28-35 (2015).
1887.	91.	Guan, P.-J., Cui, G., Fang, Q. Computational photochemistry of the azobenzene scaffold of Sudan i and orange II dyes: Excited-state proton transfer and deactivation via conical intersections ChemPhysChem, 16 (4), 805-811 (2015).

1888.	92.	Roohi, H., Ghauri, K. Exploring physicochemical properties of the nanostructured Tunable Aryl Alkyl Ionic Liquids (TAAILs) Journal of Molecular Liquids, 209, 14-24 (2015).
1889.	93.	Krygowski, T.M., Bankiewicz, B., Czarnocki, Z., Palusiak, M. Quasi-aromaticity - What does it mean? Tetrahedron, 71 (30), 4895-4908 (2015).
1890.	94.	Cai, J., Li, Z., Qiu, Y., Ouyang, Z., Lin, W., Yang, L., Feng, W., Yu, X., Dong, W. The syntheses, structures and azo-hydrazone tautomeric studies of three triazole/tetrazole azo dyes New Journal of Chemistry, 40 (11), 9370-9379 (2016).
1891.	95.	Mahmudov, K.T., Pombeiro, A.J.L. Resonance-Assisted Hydrogen Bonding as a Driving Force in Synthesis and a Synthon in the Design of Materials Chemistry - A European Journal, 22 (46), 16356-16398 (2016).
1892.	96.	Romero-Fernández, M.P., Ávalos, M., Babiano, R., Cintas, P., Jiménez, J.L., Palacios, J.C. A further look at π -delocalization and hydrogen bonding in 2-arylmalondialdehydes Tetrahedron, 72 (1), 95-104 (2016).
1893.	97.	Roohi, H., Ghauri, K. Influence of various anions and cations on electrochemical and physicochemical properties of the nanostructured Tunable Aryl Alkyl Ionic Liquids (TAAILs): A DFT M06-2X study Thermochimica Acta, 639, 20-40 (2016).
1894.	98.	Berber, H., Ateş, N.A., Özkütük, M.Y. Synthesis, Characterization And Spectroscopic Studies On Tautomerism And Acidity Constants Of Certain 4-(Phenyldiazenyl) Benzene-1,3-Diol Derivatives Anadolu University Journal of Science and Technology B- Theoretical Sciences, 4 (1), 11-28 (2016).
1895.	99.	Romero Fernández, M. del P. Síntesis y estudio estructural de compuestos azometínicos derivados de malondialdehídos Tesis doctoral, Universidad de Extremadura (2016).
1896.	100.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
1897.	101.	Ramos, C.S., Linnert, H.V., De Moraes, M.M., Do Amaral, J.H., Yamaguchi, L.F., Kato, M.J. Configuration and stability of naturally occurring all-Cis -tetrahydrofuran lignans from Piper solmsianum RSC Advances, 7 (74), 46932-46937 (2017).
1898.	102.	Quertinmont, J., Carletta, A., Tumanov, N.A., Leyssens, T., Wouters, J., Champagne, B. Assessing density functional theory approaches for predicting the structure and relative energy of salicylideneaniline molecular switches in the solid state Journal of Physical Chemistry C, 121 (12), 6898-6908 (2017).
1899.	103.	Wei, Y.-S., Hu, X.-P., Han, Z., Dong, X.-Y., Zang, S.-Q., Mak, T.C.W. Unique Proton Dynamics in an Efficient MOF-Based Proton Conductor Journal of the American Chemical Society, 139 (9), 3505-3512 (2017).
1900.	104.	Zhou, J.-L., Sun, H.-W., Yin, D.-H., Li, Y.-L., Tuo, S.-X., Xu, Y.-H., Yan, J. Deprotonation or protonation: The coordination properties, crystal structures and spectra of cobalt (II) complex with 1-(2-pyridylazo)-2-acenaphthequinol ligand Journal of Molecular Structure, 1134, 63-66 (2017).
1901.	105.	Khalili, B., Rimaz, M. An investigation on the physicochemical properties of the nanostructured [(4-X)PMAT][N(CN) ₂] ion pairs as energetic and tunable aryl alkyl amino tetrazolium based ionic liquids Journal of Molecular Structure, 1137, 530-542 (2017).
1902.	106.	Jiang, X., Zhang, H., Wu, W., Mo, Y.

		A Critical Check for the Role of Resonance in Intramolecular Hydrogen Bonding Chemistry - A European Journal, 23 (66), 16885-16891 (2017).
1903.	107.	Durlak, P., Latajka, Z. Car-Parrinello and Path Integral Molecular Dynamics Study of the Proton Transfer in the Intramolecular Hydrogen Bonds in the Ketohydrazone-Azoenol System Journal of Physical Chemistry B, 122 (32), 7862-7873 (2018).
1904.	108.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
1905.	109.	Durlak, P., Latajka, Z. Investigations of the hydrogen bond in the crystals of tropolone and thiotropolone via car-parrinello and path integral molecular dynamics Journal of Computational Chemistry, 40 (4), 671-687 (2019).
1906.	110.	Wolnica, K., Szklarz, G., Dulski, M., Wojtyniak, M., Tarnacka, M., Kaminska, E., Wrzalik, R., Kaminski, K., Paluch, M. Studying tautomerism in an important pharmaceutical glibenclamide confined in the thin nanometric layers Colloids and Surfaces B: Biointerfaces, 182, art. 110319 (2019).
1907.	111.	Gurbanov, A.V., Kuznetsov, M.L., Demukhamedova, S.D., Alieva, I.N., Godjaev, N.M., Zubkov, F.I., Mahmudov, K.T., Pombeiro, A.J.L. Role of substituents on resonance assisted hydrogen bonding: Vs. intermolecular hydrogen bonding CrystEngComm, 22 (4), 628-633 (2020).
1908.	112.	Yoneda, Y., Sotome, H., Mathew, R., Lakshmana, Y.A., Miyasaka, H. Non-condon Effect on Ultrafast Excited-State Intramolecular Proton Transfer Journal of Physical Chemistry A, 124 (2), 265-271 (2020).
1909.	113.	Anzline, C., Sivakumar, P., Israel, S., Sujatha, K. Comprehensive study on the topological properties of 5-Amino-2-Methyl Benzene Sulfonamide involving inter and intra molecular hydrogen bonds Journal of Molecular Structure, 1201, art. 127208 (2020).
1910.	114.	Espitia Cogollo, E., Piro, O.E., Echeverría, G.A., Tuttolomondo, M.E., Pérez, H., Jios, J.L., Ulic, S.E. Hydrogen bonding interactions in fluorinated 1,2,3-triazole derivatives New Journal of Chemistry, 44 (37), 16006-16019 (2020).
1911.	115.	Tapmeyer, L., Hill, S., Bolte, M. and Hützel, W.M. Two monosodium salt hydrates of Colour Index Pigment Red 48. Acta Crystallographica C, 76 (8), 716-722 (2020).
1912.	116.	Aarabi, A., S. Gholami, S., Grabowski, S.J. S-H...O and O-H...O Hydrogen Bonds - Comparison of Dimers of Thiocarboxylic and Carboxylic Acids ChemPhysChem, 21 (15), 1653-1664 (2020).
1913.	117.	Venkatesan, P., Thamotharan, S., Percino, M.J., Ilango, A. Crystal Packing Modulation of the Strength of Resonance-Assisted Hydrogen Bonds and the Role of Resonance-Assisted Pseudoring Stacking in Geminal Amido Esters: Study Based on Crystallography and Theoretical Calculations Crystal Growth and Design, 21 (2), 779-798 (2021).
1914.	118.	Chetoui, S., Zouchoune, B., Merazig, H., Bouaoud, S.-E., Rouag, D.A., Djukic, J.-P. Synthesis, spectroscopic characterization, crystal structure and theoretical investigation of two azo-palladium (II) complexes derived from substituted (1-phenylazo)-2-naphthol Transition Metal Chemistry, 46 (2), 91-101 (2021).
1915.	119.	K. Bains, A., Ankit, Y., Adhikari, D. Bioinspired Radical-Mediated Transition-Metal-Free Synthesis of N-Heterocycles under Visible Light ChemSusChem, 14 (1), 324-329 (2021).
1916.	120.	Grabowski, S.J.

		Understanding Hydrogen Bonds: Theoretical and Experimental Views, Chapter 6: From Weak Interactions to Covalent Bonds: Weak, Moderate and Strong Hydrogen Bonds RSC Theoretical and Computational Chemistry Series, 334-367, doi: 10.1039/2041-319X (2021).
1917.	121.	Grabowski, S.J. Understanding Hydrogen Bonds: Theoretical and Experimental Views, Chapter 3: Theoretical Approaches RSC Theoretical and Computational Chemistry Series, 99-224, doi: 10.1039/2041-319X (2021).
1918.	122.	Angelin, E.M., Oliveira, M.C., Nevin, A., Picollo, M., Melo, M.J. To be or not to be an azo pigment: chemistry for the preservation of historical β -naphthol reds in cultural heritage Dyes and Pigments, 190, art. no. 109244 (2021)
1919.	123.	Chetoui, S., Zouchoune, B., Merazig, H., Bouaoud, S.E., Rouag, D.A., Djukic, J.-P. Synthesis, spectroscopic characterization, crystal structure and theoretical investigation of two azo-palladium (II) complexes derived from substituted (1-phenylazo)-2-naphthol Transition Metal Chemistry, 46, 91–101 (2021).
C.43. Gradual change of one- and two-photon absorption properties in solution – protonation of 4-N,N-dimethylamino-4'-aminoazobenzene. <u>L.Antonov</u> , K.Kamada, D.Nedeltcheva, K.Ohta & F.S.Kamounah; <i>Journal of Photochemistry and Photobiology A</i> , 181 , 274-282 (2006)		
1920.	1.	Menzel, R. Photonics: Linear and nonlinear interactions of laser light and matter Photonics: Linear and Nonlinear Interactions of Laser Light and Matter, 1-1024 (2007).
1921.	2.	Ando, R.A., Rodríguez-Redondo, J.L., Sastre-Santos, A., Fernández-Lázaro, F., Azzellini, G.C., Borin, A.C., Santos, P.S. Resonance Raman spectroscopy and quantum-chemical calculations of push-pull molecules: 4-hydroxy-4'-nitroazobenzene and its anion Journal of Physical Chemistry A, 111 (51), 13452-13456 (2007).
1922.	3.	Matazo, D.R.C., Ando, R.A., Borin, A.C., Santos, P.S. Azo-hydrazone tautomerism in protonated aminoazobenzenes: Resonance Raman spectroscopy and quantum-chemical calculations Journal of Physical Chemistry A, 112 (19), 4437-4443 (2008).
1923.	4.	Johnsen, M., Ogilby, P.R. Effect of solvent on two-photon absorption by vinyl benzene derivatives Journal of Physical Chemistry A, 112 (34), 7831-7839 (2008).
1924.	5.	Gao, F., Zhang, H., Guo, L., Garland, M. Application of the BTEM family of algorithms to reconstruct individual UV-Vis spectra from multi-component mixtures Chemometrics and Intelligent Laboratory Systems, 95 (1), 94-100 (2009).
1925.	6.	Rezende, M.C., Oñate, R., Domínguez, M., Millán, D. Solvatochromism and halochromism of N-(4-oxyphenyl) 5-nitro-2-thiophenecarboxaldimine Spectroscopy Letters, 42 (2), 81-86 (2009).
1926.	7.	Prabhu, A.A.M., Venkatesh, G., Sankaranarayanan, R.K., Siva, S., Rajendiran, N. Azonium-ammonium tautomerism and inclusion complexation of 4-amino-2', 3-dimethylazobenzene Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 49 (4), 407-417 (2010).
1927.	8.	Premakumari, J., Roy, G.A.G., Prabhu, A.A.M., Venkatesh, G., Subramanian, V.K., Rajendiran, N. Effect of solvents and pH on β -cyclodextrin inclusion complexation of 2,4-dihydroxyazobenzene and 4-hydroxyazobenzene Journal of Solution Chemistry, 40 (2), 327-347 (2011).
1928.	9.	Ding, H.-J., Sun, J., Wang, C.-K. Protonation effect on one- and two-photon absorption property of a newly synthesized

		octupolar chromophore Chinese Journal of Chemical Physics, 25 (6), 666-670 (2012).
1929.	10.	Ding, H.-J., Sun, J., Zhang, Y.-J., Wang, C.-K. Protonation-induced modulation of one- and two-photon absorption properties for quadripolar dyes Chemical Physics Letters, 591, 142-148 (2014).
1930.	11.	Kreuz, A. Síntese e caracterização de sistemas foto-switch bis-azobenzênicos: influência de um espaçador e de ligações de hidrogênio intramoleculares Doctoral Thesis, Universidade de São Paulo, 240 (2018).
1931.	12.	Kim, Y.J., Choi, H., Kim, C.S., Lee, G., Kim, S., Park, J., Park, S.E., Cho, B.J. High-Performance Monolithic Photovoltaic-Thermoelectric Hybrid Power Generator Using an Exothermic Reactive Interlayer ACS Applied Energy Materials, 2 (4), 2381-2386 (2019).
C.44. An integrated approach to the study of the tautomerism of 1-Phenyliminomethyl-naphthalene-4-ol. F.S.Kamounah, <u>L.Antonov</u> , V.Petrov & G. van der Zwan; <i>Journal of Physical Organic Chemistry</i> , 20 , 313-320 (2007)		
1932.	1.	Majewska, P., Pajak, J., Rospenk, M., Filarowski, A. Intra- versus intermolecular hydrogen bonding equilibrium in 2-hydroxy-N,N-diethylbenzamide Journal of Physical Organic Chemistry, 22 (2), 130-137 (2009).
1933.	2.	Магдалинова, Н.А., Волкова, Т.Г., Ключев, М.В. Квантово-химическое изучение имин-енаминного равновесия с учетом эффектов растворителя Вестник Ивановского государственного университета, (2), 31-34 (2009).
1934.	3.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
1935.	4.	Hamidian, K., Irandoust, M., Rafiee, E., Joshaghani, M. Synthesis, characterization, and tautomeric properties of some azo-azomethine compounds Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, 67 (2), 159-164 (2012).
1936.	5.	Rubčić, M., Užarević, K., Halasz, I., Bregović, N., Mališ, M., Dilović, I., Kokan, Z., Stein, R.S., Dinnebier, R.E., Tomišić, V. Desmotropy, polymorphism, and solid-state proton transfer: Four solid forms of an aromatic o-hydroxy schiff base Chemistry - A European Journal, 18 (18), 5620-5631 (2012).
1937.	6.	Juribašić, M., Bregović, N., Stilinović, V., Tomišić, V., Cindrić, M., Šket, P., Plavec, J., Rubčić, M., Užarević, K. Supramolecular stabilization of metastable tautomers in solution and the solid state Chemistry - A European Journal, 20 (52), 17333-17345 (2014).
1938.	7.	Užarević, K., Stilinović, V., Rubčić, M. Supramolecular Control over Tautomerism in Organic Solids Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 295-328 (2016).
1939.	8.	Mohammadnezhad, G., Farrokhpour, H., Görls, H., Plass, W. Tautomerism in carbohydrate-derived salicylidene schiff bases: Solution, solid-state, and theoretical investigations Journal of Molecular Structure, 1230, art. no. 129853 (2021).
C.45. Theoretical study of the two-photon absorption properties of several asymmetrically substituted stilbenoid molecules. K.Ohta, <u>L.Antonov</u> , S.Yamada & K.Kamada; <i>Journal of Chemical Physics</i> , 127 , art. 084504 (2007)		
1940.	1.	Sun, M., Chen, J., Xu, H. Visualizations of transition dipoles, charge transfer, and electron-hole coherence on electronic state transitions between excited states for two-photon absorption

		Journal of Chemical Physics, 128 (6), art. 064106, (2008).
1941.	2.	Yang, Z.-D., Feng, J.-K., Ren, A.-M. Spiro-linked oligofluorenes and derivatives: Molecular design and theoretical study of one- and two-photon absorption properties Chemical Physics Letters, 461 (1-3), 9-15 (2008).
1942.	3.	Dini, D., Calvete, M.J.F., Hanack, M., Amendola, V., Meneghetti, M. Large two-photon absorption cross sections of hemiporphyrazines in the excited state: The multiphoton absorption process of hemiporphyrazines with different central metals Journal of the American Chemical Society, 130 (37), 12290-12298 (2008).
1943.	4.	Lin, C.-K., Wang, Y.-H., Chang, H.-C., Hayashi, M., Lin, S.H. One- and two-photon absorption properties of diamond nitrogen-vacancy defect centers: A theoretical study Journal of Chemical Physics, 129 (12), art. 124714, (2008).
1944.	5.	Andraud, C., Fortrie, R., Barsu, C., Stéphan, O., Chermette, H., Baldeck, P.L. Excitonically coupled oligomers and dendrimers for two-photon absorption Advances in Polymer Science, 214 (1), 149-203 (2008).
1945.	6.	Terenziani, F., Katan, C., Badaeva, E., Tretiak, S., Blanchara-Desce, M. Enhanced two-photon absorption of organic chromophores: Theoretical and experimental assessments Advanced Materials, 20 (24), 4641-4678 (2008).
1946.	7.	Bondar, M.V., Przhonska, O.V., Yanez, C.O., Belfield, K.D. New fluorene molecules with efficient two-photon absorption for multidisciplinary nonlinear optical applications Ukrainian Journal of Physics, 54 (1-2), 14-21 (2009).
1947.	8.	Silva, D.L., Krawczyk, P., Bartkowiak, W., Mendona, C.R. Theoretical study of one- and two-photon absorption spectra of azoaromatic compounds Journal of Chemical Physics, 131 (24), art. 244516, (2009).
1948.	9.	Krawczyk, P., Kaczmarek, A., Zalesny, R., Matczyszyn, K., Bartkowiak, W., Ziolkowski, M., Cysewski, P. Linear and nonlinear optical properties of azobenzene derivatives Journal of Molecular Modeling, 15 (6), 581-590 (2009).
1949.	10.	Belfield, K.D., Bondar, M.V., Yanez, C.O., Hernandez, F.E., Przhonska, O.V. Two-photon absorption and lasing properties of new fluorene derivatives Journal of Materials Chemistry, (2009).
1950.	11.	Krawczyk, P. DFT study of linear and nonlinear optical properties of donor-acceptor substituted stilbenes, azobenzenes and benzilideneanilines Journal of Molecular Modeling, 16 (4), 659-668 (2010).
1951.	12.	Lia, W.-C., Feng, J.-K., Rena, A.-M., Zhanga, X.-B., Suna, C.-C. Theoretical study of one- and two-photon absorption properties of expanded donor-acceptor calix[4]arenes Journal of Physical Organic Chemistry, 23 (2), 126-133 (2010).
1952.	13.	De Boni, L., Toro, C., Zilio, S.C., Mendonca, C.R., Hernandez, F.E. Azo-group dihedral angle torsion dependence on temperature: A theoretical-experimental study Chemical Physics Letters, 487 (4-6), 226-231 (2010).
1953.	14.	Hrobáriková, V., Hrobárik, P., Gajdoš, P., Fitis, I., Fakis, M., Persephonis, P., Zahradník, P. Benzothiazole-based fluorophores of donor- π -acceptor- π -donor type displaying high two-photon absorption Journal of Organic Chemistry, 75 (9), 3053-3068 (2010).
1954.	15.	Belfield, K.D., Bondar, M.V., Frazer, A., Morales, A.R., Kachkovsky, O.D., Mikhailov, I.A., Masunov, A.E., Przhonska, O.V. Fluorene-based metal-ion sensing probe with high sensitivity to Zn ²⁺ and efficient two-photon absorption Journal of Physical Chemistry B, 114 (28), 9313-9321 (2010).
1955.	16.	Vivas, M.G., Silva, D.L., Boni, L.D., Zalesny, R., Bartkowiak, W., Mendonca, C.R.

		Two-photon absorption spectra of carotenoids compounds Journal of Applied Physics, 109 (10), art. 103529, (2011).
1956.	17.	Todescato, F., Fortunati, I., Carlotto, S., Ferrante, C., Grisanti, L., Sissa, C., Painelli, A., Colombo, A., Dragonetti, C., Roberto, D. Dimers of polar chromophores in solution: Role of excitonic interactions in one- and two-photon absorption properties Physical Chemistry Chemical Physics, 13 (23), 11099-11109 (2011).
1957.	18.	Collini, E., Carlotto, S., Ferrante, C., Bozio, R., Polimeno, A., Bloino, J., Barone, V., Ronchi, E., Beverina, L., Pagani, G.A. Multipolar symmetric squaraines with large two-photon absorption cross-sections in the NIR region Physical Chemistry Chemical Physics, 13 (25), 12087-12094 (2011).
1958.	19.	Zhang, M.-Y., Wang, J.-Y., Lin, C.S., Cheng, W.-D. First-principles study of one-and two-photon absorption of the H-bonding complexes from monomeric red fluorescent proteins with large stokes shifts Journal of Physical Chemistry B, 115 (36), 10750-10757 (2011).
1959.	20.	Belfield, K.D., Bondar, M.V., Morales, A.R., Padilha, L.A., Przhonska, O.V., Wang, X. Two-photon STED spectral determination for a new V-shaped organic fluorescent probe with efficient two-photon absorption ChemPhysChem, 12 (15), 2755-2762 (2011).
1960.	21.	Silva, D.L., De Boni, L., Correa, D.S., Costa, S.C.S., Hidalgo, A.A., Zilio, S.C., Canuto, S., Mendonca, C.R. Two-photon absorption in oxazole derivatives: An experimental and quantum chemical study Optical Materials, 34 (7), 1013-1018 (2012).
1961.	22.	Li, L., Wu, Y., Zhou, Q., He, C. Experimental and theoretical studies on the one-photon and two-photon properties of a series of carbazole derivatives containing styrene Journal of Physical Organic Chemistry, 25 (5), 362-372 (2012).
1962.	23.	Belfield, K.D., Bondar, M.V., Morales, A.R., Yue, X., Luchita, G., Przhonska, O.V. Transient excited-state absorption and gain spectroscopy of a two-photon absorbing probe with efficient superfluorescent properties Journal of Physical Chemistry C, 116 (20), 11261-11271 (2012).
1963.	24.	Lin, C., Cheng, W., Zhang, W., Zhang, H., He, Z. Structural predictions and photophysical simulations for materials Progress in Chemistry, 24 (6), 1185-1198 (2012).
1964.	25.	Zhang, M.-Y., Wang, J.-Y., Lin, C.-S., Cheng, W.-D. First-principles simulations of two photon absorption spectra of dynamic structural chromophores in green fluorescent protein International Journal of Quantum Chemistry, 112 (13), 2607-2614 (2012).
1965.	26.	Silva, D.L., Murugan, N.A., Kongsted, J., Rinkevicius, Z., Canuto, S., Gren, H. The role of molecular conformation and polarizable embedding for one- and two-photon absorption of disperse orange 3 in solution Journal of Physical Chemistry B, 116 (28), 8169-8181 (2012).
1966.	27.	Vivas, M.G., De Boni, L., Bretonniere, Y., Andraud, C., Mendonca, C.R. Polarization effect on the two-photon absorption of a chiral compound Optics Express, 20 (17), 18600-18608 (2012).
1967.	28.	Belfield, K.D., Bondar, M.V., Morales, A.R., Yue, X., Luchita, G., Przhonska, O.V., Kachkovsky, O.D. Two-photon absorption and time-resolved stimulated emission depletion spectroscopy of a new fluorenyl derivative ChemPhysChem, 13 (15), 3481-3491 (2012).
1968.	29.	Zhang, M.-Y., Xu, C., Lin, C.-S., Guan, X., Cheng, W.-D. Theoretical study of the proton transfer wires influence on the one- and two-photon absorption properties of green fluorescent protein chromophore Organic and Biomolecular Chemistry, 11 (8), 1414-1422 (2013).

1969.	30.	Belfield, K.D., Bondar, M.V., Morales, A.R., Frazer, A., Mikhailov, I.A., Przhonska, O.V. Photophysical properties and ultrafast excited-state dynamics of a new two-photon absorbing thiopyranyl probe Journal of Physical Chemistry C, 117 (23), 11941-11952 (2013).
1970.	31.	Belfield, K.D., Bondar, M.V., Haniff, H.S., Mikhailov, I.A., Luchita, G., Przhonska, O.V. Superfluorescent squaraine with efficient two-photon absorption and high photostability ChemPhysChem, 14 (15), 3532-3542 (2013).
1971.	32.	Zhang, M.-Y., Li, G.-S., Li, L.-P. First-principles study of one and two-photon absorption of an artificial fluorescent protein chromophore by 5-hydroxytryptophan substitution Chemical Physics Letters, 588, 220-225 (2013).
1972.	33.	Belfield, K.D., Bondar, M.V., Yao, S., Mikhailov, I.A., Polikanov, V.S., Przhonska, O.V. Femtosecond spectroscopy of superfluorescent fluorenyl benzothiadiazoles with large two-photon and excited-state absorption Journal of Physical Chemistry C, 118 (25), 13790-13800 (2014).
1973.	34.	Silva, D.L., Barreto, R.C., Lacerda Jr., E.G., Coutinho, K., Canuto, S. One- and two-photon absorption of fluorescein dianion in water: A study using S-QM/MM methodology and ZINDO method Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 119, 63-75 (2014).
1974.	35.	Yue, X., Armijo, Z., King, K., Bondar, M.V., Morales, A.R., Frazer, A., Mikhailov, I.A., Przhonska, O.V., Belfield, K.D. Steady-state and femtosecond transient absorption spectroscopy of new two-photon absorbing fluorene-containing quinolininium cation membrane probes ACS Applied Materials and Interfaces, 7 (4), 2833-2846 (2015).
1975.	36.	Marcelo, G., Pinto, S., Cañeque, T., Mariz, I.F.A., Cuadro, A.M., Vaquero, J.J., Martinho, J.M.G., Maçôas, E.M.S. Nonlinear emission of quinolininium-based dyes with application in fluorescence lifetime imaging Journal of Physical Chemistry A, 119 (11), 2351-2362 (2015).
1976.	37.	Krawczyk, P. Time-dependent density functional theory calculations of the solvatochromism of some azo sulfonamide fluorochromes Journal of Molecular Modeling, 21 (5), 18 (2015).
1977.	38.	Ghazvini Zadeh, E.H., Bondar, M.V., Mikhailov, I.A., Belfield, K.D. Linear photophysics, stimulated emission, and ultrafast spectroscopy of new two-photon absorbing diketopyrrolopyrrole derivatives Journal of Physical Chemistry C, 119 (16), 8864-8875 (2015).
1978.	39.	Beerepoot, M.T.P., Friese, D.H., List, N.H., Kongsted, J., Ruud, K. Benchmarking two-photon absorption cross sections: performance of CC2 and CAM-B3LYP Physical Chemistry Chemical Physics, 17 (29), 19306-19314 (2015).
1979.	40.	Friese, D.H., Mikhaylov, A., Krzeszewski, M., Poronik, Y.M., Rebane, A., Ruud, K., Gryko, D.T. Pyrrolo[3,2-b]pyrroles - From Unprecedented Solvatochromism to Two-Photon Absorption Chemistry - A European Journal, 21 (50), 18364-18374 (2015).
1980.	41.	Liu, T., Bondar, M.V., Belfield, K.D., Anderson, D., Masunov, A.E., Hagan, D.J., Van Stryland, E.W. Linear Photophysics and Femtosecond Nonlinear Spectroscopy of a Star-Shaped Squaraine Derivative with Efficient Two-Photon Absorption Journal of Physical Chemistry C, 120 (20), 11099-11110 (2016).
1981.	42.	Krawczyk, P., Pietrzak, M., Janek, T., Jędrzejewska, B., Cysewski, P. Spectroscopic and nonlinear optical properties of new chalcone fluorescent probes for bioimaging applications: a theoretical and experimental study Journal of Molecular Modeling, 22 (6), art. 125, (2016).
1982.	43.	Sui, B., Bondar, M.V., Anderson, D., Rivera-Jacquez, H.J., Masunov, A.E., Belfield, K.D.

		New Two-Photon Absorbing BODIPY-Based Fluorescent Probe: Linear Photophysics, Stimulated Emission, and Ultrafast Spectroscopy Journal of Physical Chemistry C, 120 (26), 14317-14329 (2016).
1983.	44.	Isozaki, T., Oba, H., Ikoma, T., Suzuki, T. Simultaneous Two-Photon Absorption to Gerade Excited Singlet States of Diphenylacetylene and Diphenylbutadiyne Using Optical-Probing Photoacoustic Spectroscopy Journal of Physical Chemistry A, 120 (31), 6137-6145 (2016).
1984.	45.	Ueda, M., Terazawa, S., Deguchi, Y., Kimura, M., Matsubara, N., Miyagawa, S., Kawasaki, T., Tokunaga, Y. Five-State Molecular Shuttling of a Pair of [2]Rotaxanes: Distinct Outputs in Response to Acid and Base Stimuli Chemistry - An Asian Journal, 11 (16), 2291-2300 (2016).
1985.	46.	Shaydyuk, Y.O., Levchenko, S.M., Kurhuzenkau, S.A., Anderson, D., Masunov, A.E., Kachkovsky, O.D., Slominsky, Y.L., Bricks, J.L., Belfield, K.D., Bondar, M.V. Linear photophysics, two-photon absorption and femtosecond transient absorption spectroscopy of styryl dye bases Journal of Luminescence, 183, 360-367 (2017).
1986.	47.	Wang, D., Ren, A.-M., Zou, L.-Y., Guo, J.-F., Huang, S. A theoretical investigation of a series of novel two-photon zinc ion fluorescent probes based on bipyridine Journal of Photochemistry and Photobiology A: Chemistry, 341, 20-30 (2017).
1987.	48.	Zhao, P., Tofighi, S., O'Donnell, R.M., Shi, J., Bondar, M.V., Hagan, D.J., Van Stryland, E.W. Dual Emissive Multinuclear Iridium(III) Complexes in Solutions: Linear Photophysical Properties, Two-Photon Absorption Spectra, and Photostability Journal of Physical Chemistry C, 122 (12), 6786-6793 (2018).
1988.	49.	Abegão, L.M.G., Fonseca, R.D., Ramos, T.N., Mahuteau-Betzer, F., Piguel, S., Joatan, J.R., Mendonça, C.R., Canuto, S., Silva, D.L., De Boni, L. Oxazole Dyes with Potential for Photoluminescence Bioprobes: A Two-Photon Absorption Study Journal of Physical Chemistry C, 122 (19), 10526-10534 (2018).
1989.	50.	Moritomo, H., Onishi, S., Asamura, N., Matsumoto, K., Suzuki, Y., Kawamata, J. Mitochondrion-selective hemicyanine dyes suitable for fiber laser excitation two-photon microscopy MRS Communications, 8 (3), 1064-1069 (2018).
1990.	51.	Chang, H.-J., Bondar, M.V., Liu, T., Liu, X., Singh, S., Belfield, K.D., Sheely, A., Masunov, A.E., Hagan, D.J., Van Stryland, E.W. Electronic Nature of Neutral and Charged Two-Photon Absorbing Squaraines for Fluorescence Bioimaging Application ACS Omega, 4 (12), 14669-14679 (2019).
1991.	52.	Gholami, S., Pedraza-González, L., Yang, X., Granovsky, A.A., Ioffe, I.N., Olivucci, M. Multistate Multiconfiguration Quantum Chemical Computation of the Two-Photon Absorption Spectra of Bovine Rhodopsin Journal of Physical Chemistry Letters, 10 (20), 6293-6300 (2019).
1992.	53.	Yang, L., Botong, L., Yan; Y., Zhenrong, S. (刘洋 刘博通 杨岩 孙真荣) Dissociation ionization of bromopropene in 800 nm and 400 nm femtosecond laser fields Journal of East China Normal University (Natural Science Edition), (3), art. 12 (2019)
1993.	54.	Wang, X., Yan, P., Mu, X. Optical properties of $S_{2\infty}$ and $S_{3\infty}$ excited states of protonated schiff-base retinal chromophores in TPA, ECD and ROA Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 228, art. 117532 (2020).
1994.	55.	Wang, Y., Wu, H., Li, P., Chen, S., Jones, L.O., Mosquera, M.A., Zhang, L., Cai, K., Chen, H., Chen, X.-Y., Stern, C.L., Wasielewski, M.R., Ratner, M.A., Schatz, G.C., Stoddart, J.F. Two-photon excited deep-red and near-infrared emissive organic co-crystals Nature Communications, 11 (1), art. no. 4633 (2020).

1995.	56.	Tian, C., Zhang, Y., Mu, X., Quan, J., Sun, M. Optical physics on chiral brominated azapirones: Bromophilone A and B Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 242, art. no. 118780 (2020).
1996.	57.	Onishi, S., Suzuki, Y., Ano, H., Kawamata, J. Water-Soluble Red-Fluorescent Dyes for Two-Photon Deep-Tissue Imaging Bulletin of the Chemical Society of Japan, 93 (10), 1226-1233 (2020).
1997.	58.	Krawczyk, P. Optimizing the optical and biological properties of 6-(1: H -benzimidazole)-2-naphthalenol as a fluorescent probe for the detection of thiophenols: A theoretical study RSC Advances, 10 (41), 24374-24385 (2020).
1998.	59.	Krawczyk, P. Modulation of benzofuran structure as a fluorescent probe to optimize linear and nonlinear optical properties and biological activities Journal of Molecular Modeling, 26 (10), art. no. 272 (2020).
1999.	60.	Krawczyk, P. 4-(4-Chloro-2-oxo-3(1H -phenanthro[9,10- d] imidazol-2-yl)-2 H -chromen-6-yl) benzaldehyde as a fluorescent probe for medical imaging: Linear and nonlinear optical properties Photochemical and Photobiological Sciences, 19 (4), 473-484 (2020).
2000.	61.	Fan, J., Sun, M. Optical properties of kalihinol derivatives in TPA, ECD and ROA Chemical Physics Letters, 755, art. no. 137796 (2020).
2001.	62.	Dudek, M., Tarnowicz-Staniak, N., Deiana, M., Pokładek, Z., Samoć, M., Matczyszyn, K. Two-photon absorption and two-photon-induced isomerization of azobenzene compounds RSC Advances, 10, 40489-40507 (2020).
2002.	63.	Wei, J., Li, Y., Song, P., Yang, Y., Ma, F. Enhancement of one- and two-photon absorption and visualization of intramolecular charge transfer of pyrenyl-contained derivatives Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 245, art. no. 118897 (2021).
2003.	64.	Abegão, L.M.G., Santos, F.A., Piguel, S., Rodrigues, J.J., Jr., Mendonça, C.R., De Boni, L. The ability of 2,5-disubstituted oxazole dyes derivatives to generate two-photon upconversion photoluminescence and its brightness evaluation Journal of Photochemistry and Photobiology A: Chemistry, 411, art. no. 113214 (2021).
2004.	65.	Mosquera, M.A., Jones, L.O., Kang, G., Ratner, M.A., Schatz, G.C. Second Linear Response Theory and the Analytic Calculation of Excited-State Properties Journal of Physical Chemistry A, 125 (4), 1093-1102 (2021).
2005.	66.	Zang, J., Feng, W., Chang, X., Liu, K., Peng, H., Ding, L., Liu, T., Fang, Y. Enhanced two-photon absorption of sandwich-like coordination complexes based on squaraine and metallomacrocyclic derivatives Dyes and Pigments, 193, art. no. 109487 (2021).
2006.	67.	Feng, W., Liu, K., Zang, J., Wang, G., Miao, R., Ding, L., Liu, T., Kong, J., Fang, Y. Flexible and Transparent Oligothiophene-o-Carborane-Containing Hybrid Films for Nonlinear Optical Limiting Based on Efficient Two-Photon Absorption ACS Applied Materials & Interfaces, doi: 10.1021/acsami.1c07835 (2021).
C.46. Two-Photon Absorption Properties of Dehydrobenzo[12]annulenes and Hexakis(phenylethynyl)benzenes: Effect of Edge-Linkage. K.Kamada, L.Antonov, S.Yamada, K.Ohta, T.Yoshimura, K.Tahara, A.Inaba, M.Sonoda & Y.Tobe; ChemPhysChem, 8, 2671-2677 (2007)		
2007.	1.	Mao, G., Orita, A., Matsuo, D., Hirate, T., Iwanaga, T., Toyota, S., Otera, J. Synthesis and spectroscopic study of silacyclic-substituted phenyleneethynylenes Tetrahedron Letters, 50 (24), 2860-2864 (2009).
2008.	2.	Kobayashi, K., Kita, Y., Shigeiwa, M., Imamura, S., Maeda, S. Synthesis and optical properties, including two-photon absorption cross-sections, of differentially functionalized starburst-type π -conjugated molecules

		Bulletin of the Chemical Society of Japan, 82 (11), 1416-1425 (2009).
2009.	3.	Takeda, T., Fix, A.G., Haley, M.M. Synthesis and photophysical properties of expanded dehydrobenzoannulenoannulene trefoils Organic Letters, 12 (17), 3824-3827 (2010).
2010.	4.	Detert, H., Lehmann, M., Meier, H. Star-shaped conjugated systems Materials, 3 (5), 3218-3330 (2010).
2011.	5.	Iyoda, M., Yamakawa, J., Rahman, M.J. Conjugated macrocycles: Concepts and applications Angewandte Chemie - International Edition, 50 (45), 10522-10553 (2011).
2012.	6.	Huang, S., Zou, L.-Y., Ren, A.-M., Guo, J.-F., Liu, X.-T., Feng, J.-K. A theoretical study of the ring size effect on one- and two-photon absorption properties of macrocyclic thiophene derivatives New Journal of Chemistry, 36 (4), 947-953 (2012).
2013.	7.	Shoji, T., Maruyama, M., Ito, S., Morita, N. Synthesis and properties of mono-, bis-, tris-, and tetrakis[1,1,4,4- tetracyano-2-(1-azulenyl)-1,3-butadien-3-yl] chromophores connected to a benzene ring by phenylethynyl- and 2-thienylethynyl spacers Bulletin of the Chemical Society of Japan, 85 (7), 761-773 (2012).
2014.	8.	Sharif, M., Maalik, A., Reimann, S., Iqbal, J., Patonay, T., Spannenberg, A., Villinger, A., Langer, P. Synthesis and photophysical properties of tetra- and pentaalkynylfluorobenzenes by Sonogashira reactions of novel iodofluorobenzenes Tetrahedron, 69 (1), 174-183 (2013).
2015.	9.	Nica, S., Cristian, U., Deleanu, C., Filip, P.I., Razus, A.C. Extended π -conjugated chromophores based on pyrilium core linked to guiazulenyl vinyl moieties Revista de Chimie, 64 (6), 658-662 (2013).
2016.	10.	Ehlers, P., Hakobyan, A., Neubauer, A., Lochbrunner, S., Langer, P. Tetraalkynylated and tetraalkenylated benzenes and pyridines: Synthesis and photophysical properties Advanced Synthesis and Catalysis, 355 (9), 1849-1858 (2013).
2017.	11.	Kato, S.-I., Takahashi, N., Tanaka, H., Kobayashi, A., Yoshihara, T., Tobita, S., Yamanobe, T., Uehara, H., Nakamura, Y. Tetraalkoxyphenanthrene-fused dehydroannulenes: Synthesis, self-assembly, and electronic, optical, and electrochemical properties Chemistry - A European Journal, 19 (36), 12138-12151 (2013).
2018.	12.	Duc��r��, J.-M., Lepetit, C., Chauvin, R. Carbo -graphite: Structural, mechanical, and electronic properties Journal of Physical Chemistry C, (2013).
2019.	13.	Shigemitsu, H., Hisaki, I., Kometani, E., Yasumiya, D., Sakamoto, Y., Osaka, K., Thakur, T.S., Saeki, A., Seki, S., Kimura, F., Kimura, T., Tohnai, N., Miyata, M. Crystalline supramolecular nanofibers based on dehydrobenzoannulene derivatives Chemistry - A European Journal, 117 (42), 21671-21681 (2013).
2020.	14.	Nica, S., Cristian, L., Deleanu, C., Filip, P.I., Razus, A.C. Extended π -conjugated Chromophores based on Ppyrilium Core Linked to Guiazulenyl Vinyl Moieties Revista de Chimie, 64 (6), 658-662 (2013).
2021.	15.	Katoono, R., Kusaka, K., Kawai, S., Tanaka, Y., Hanada, K., Nehira, T., Fujiwara, K., Suzuki, T. Chiroptical molecular propellers based on hexakis(phenylethynyl)benzene through the complexation-induced intramolecular transmission of local point chirality Organic and Biomolecular Chemistry, 12 (47), 9532-9538 (2014).
2022.	16.	Nishijima, Y., Juodkazis, S. Optical characterization and lasing in three-dimensional opal-structures Frontiers in Materials, 2, art. 42 (2015).

2023.	17.	Xiang, Y., Wang, Q., Wang, G., Li, X., Zhang, D., Jin, W. Synthesis and coordination of star-shaped electron-deficient hexaheteroarylbenzene derivatives containing three pyrimidylbenzene derivatives <i>Tetrahedron</i> , 72 (20), 2574-2580 (2016).
2024.	18.	Kozák, O., Sudolská, M., Pramanik, G., Cígler, P., Otyepka, M., Zbořil, R. Photoluminescent Carbon Nanostructures <i>Chemistry of Materials</i> , 28 (12), 4085-4128 (2016).
2025.	19.	Crowe, J.W., Baldwin, L.A., McGrier, P.L. Luminescent Covalent Organic Frameworks Containing a Homogeneous and Heterogeneous Distribution of Dehydrobenzoannulene Vertex Units <i>Journal of the American Chemical Society</i> , 138 (32), 10120-10123 (2016).
2026.	20.	Takeda, T., Haley, M.M. Synthesis and photophysical properties of expanded dehydrobenzoannulene macrotricycles <i>Canadian Journal of Chemistry</i> , 95 (3), 298-302 (2017).
2027.	21.	Crowe, J.W. Design and Synthesis of Dehydrobenzoannulene Based Covalent Organic Frameworks Doctor of Philosophy, Ohio State University (2017).
2028.	22.	Gomez, E., Gutiérrez, M., Moreno, M., Hisaki, I., Nakagawa, S., Douhal, A. Spectroscopy and dynamics of dehydrobenzo[12]annulene derivatives possessing peripheral carboxyphenyl groups: Theory and experiment <i>Physical Chemistry Chemical Physics</i> , 20 (11), 7415-7427 (2018).
2029.	23.	Rai, D.K., Chakraborty, H., Shukla, A. Tunable Optoelectronic Properties of Triply Bonded Carbon Molecules with Linear and Graphyne Substructures <i>Journal of Physical Chemistry C</i> , 122 (2), 1309-1317 (2018).
2030.	24.	Abegão, L.M.G., Fonseca, R.D., Ramos, T.N., Mahuteau-Betzer, F., Piguel, S., Joatan, J.R., Mendonça, C.R., Canuto, S., Silva, D.L., De Boni, L. Oxazole Dyes with Potential for Photoluminescence Bioprobes: A Two-Photon Absorption Study <i>Journal of Physical Chemistry C</i> , 122 (19), 10526-10534 (2018).
2031.	25.	Ishita, M., Ohkoshi, M., Kuwatani, Y., Otani, H., Nishinaga, T., Iyoda, M. Synthesis and properties of a tricyclic hexaketone monohydrate with hexabutyl side chain <i>Heterocycles</i> , 99 (2), 1145-1153 (2019).
2032.	26.	Baxter, P.N.W., Al Ouahabi, A., Karmazin, L., Varnek, A., Strub, J.-M., Cianferani, S. An Investigation into the Stephens–Castro Synthesis of Dehydrotriaryl[12]annulenes: Factors Influencing the Cyclotrimerization <i>European Journal of Organic Chemistry</i> , 2019 (40), 6783-6795 (2019).
C.47. Determination of the average orientation of 4-phenylpyridine in nematic solvent by means of infrared linear dichroism: Study of its conformational dependence on the dihedral angle between aromatic rings. M.Rogojerov, B.Jordanov, L.Antonov & K.Hinrichs; <i>Journal of Molecular Structure</i> , 875 , 540-548 (2008)		
2033.	1.	Gros, C.R., Peprah, M.K., Felts, A.C., Brinzari, T.V., Risset, O.N., Cain, J.M., Ferreira, C.F., Meisel, M.W., Talham, D.R. Synergistic photomagnetic effects in coordination polymer heterostructure particles of Hofmann-like Fe(4-phenylpyridine) ₂ [Ni(CN) ₄]·0.5H ₂ O and K _{0.4} Ni[Cr(CN) ₆]0.8·n H ₂ O <i>Dalton Transactions</i> , 45 (42), 16624-16634 (2016).
2034.	2.	Gökpek, Y., Bilge, M., Bilge, D., Alver, Ö., Parlak, C. Adsorption mechanism, structural and electronic properties: 4-Phenylpyridine & undoped or doped (B or Si) C60 <i>Journal of Molecular Liquids</i> , 238, 225-228 (2017).
2035.	3.	Castro-Pérez, C.V., Trejo-Carbajal, N., Rodríguez-González, R.J., Larios-López, L., Felix-Serrano, I., Navarro-Rodríguez, D. Liquid crystal and photo-induced properties of polymers carrying pyridylazobenzene groups and iodopentafluorobenzene rings self-assembled through halogen bond <i>Journal of Fluorine Chemistry</i> , 222-223, 90-99 (2019).
2036.	4.	Vardar, D., Ocak, H., Akdaş Kılıç, H., Jeannin, O., Camerel, F., Eran, B.B.

		Synthesis and characterization of new pyridine-based chiral calamitic liquid crystals Liquid Crystals, 48 (6), 850-861 (2021).
C.48. Two - Photon Absorption Properties of Azulenyl Compounds Having a Conjugated Ketone Backbone. S.Hirakawa, J.Kawamata, Y.Suzuki, S.Tani, T.Murafuji, K.Kasatani, <u>L.Antonov</u> , K.Kamada & K.Ohta; <i>Journal of Physical Chemistry</i> , 112A , 5198-5207 (2008)		
2037.	1.	Tsuboi, Y., Shimizu, R., Shoji, T., Kitamura, N. Near-infrared continuous-wave light driving a two-photon photochromic reaction with the assistance of localized surface plasmon Journal of the American Chemical Society, 131 (35), 12623-12627 (2009).
2038.	2.	Xue, P., Lu, R., Yang, X., Zhao, L., Xu, D., Liu, Y., Zhang, H., Nomoto, H., Takafuji, M., Ihara, H. Self-assembly of a chiral lipid gelator controlled by solvent and speed of gelation Chemistry - A European Journal, 15 (38), 9824-9835 (2009).
2039.	3.	Fonari, A., Leonova, E.S., Makarov, M.V., Bushmarinov, I.S., Odinet, I.L., Fonari, M.S., Antipin, M.Y., Timofeeva, T.V. Experimental and theoretical structural study of (3E,5E)-3,5-bis- (benzylidene)-4-oxopiperidinium mono- and (3E,5E)-3,5-bis-(4-N,N-dialkylammonio) benzylidene)-4-oxopiperidinium trications Journal of Molecular Structure, 1001 (1-3), 68-77 (2011).
2040.	4.	Cicha, K., Li, Z., Stadlmann, K., Ovsianikov, A., Markut-Kohl, R., Liska, R., Stampfl, J. Evaluation of 3D structures fabricated with two-photon-photopolymerization by using FTIR spectroscopy Journal of Applied Physics, 110 (6), art. 064911, (2011).
2041.	5.	Tanino, K., Yamada, T., Yoshimura, F., Suzuki, T. Cyanoazulene-based multistage redox systems prepared from vinylcyclopropanecarbonitrile and cyclopentenone via divinylcyclopropane- rearrangement approach Chemistry Letters, 43 (5), 607-609 (2014).
2042.	6.	Usui, K., Tanoue, K., Yamamoto, K., Shimizu, T., Suemune, H. Synthesis of substituted azulenes via Pt(II)-Catalyzed ring-expanding cycloisomerization Organic Letters, 16 (17), 4662-4665 (2014).
2043.	7.	Nishijima, Y., Juodkakis, S. Optical characterization and lasing in three-dimensional opal-structures Frontiers in Materials, 2, art. 42 (2015).
2044.	8.	Shoji, T., Araki, T., Iida, N., Kobayashi, Y., Ohta, A., Sekiguchi, R., Ito, S., Mori, S., Okujima, T., Yasunami, M. Molecular Transformation of 2-Methylazulenes: An Efficient and Practical Synthesis of 2-Formyl- and 2-Ethynylazulenes European Journal of Organic Chemistry, 2018 (9), 1145-1157 (2018).
2045.	9.	Murfin, L.C., Weber, M., Park, S.J., Kim, W.T., Lopez-Alled, C.M., McMullin, C.L., Pradaux-Caggiano, F., Lyall, C.L., Kociok-Köhn, G., Wenk, J., Bull, S.D., Yoon, J., Kim, H.M., James, T.D., Lewis, S.E. Azulene-Derived Fluorescent Probe for Bioimaging: Detection of Reactive Oxygen and Nitrogen Species by Two-Photon Microscopy Journal of the American Chemical Society, 141 (49), 19389-19396 (2019).
C.49. Relative strength of the intramolecular hydrogen bonding in 1-phenylazo-naphthalene-2-ol and 1-phenyliminomethyl-naphthalene-2-ol. D.Nedeltcheva & <u>L.Antonov</u> ; <i>Journal of Physical Organic Chemistry</i> , 22 , 274-281 (2009)		
2046.	1.	Rubčić, M., Užarević, K., Halasz, I., Bregović, N., Mališ, M., Dilović, I., Kokan, Z., Stein, R.S., Dinnebier, R.E., Tomišić, V. Desmotropy, polymorphism, and solid-state proton transfer: Four solid forms of an aromatic o-hydroxy schiff base Chemistry - A European Journal, 18 (18), 5620-5631 (2012).
2047.	2.	Weberski Jr., M.P., Chen, C., Delferro, M., Marks, T.J. Ligand steric and fluoroalkyl substituent effects on enchainment cooperativity and stability in bimetallic nickel(II) polymerization catalysts

		Chemistry - A European Journal, 18 (34), 10715-10732 (2012).
2048.	3.	Taylor, P.J. The Scope and Limitations of LSER in the Study of Tautomer Ratio Tautomerism: Methods and Theories, 277-304 (2013).
2049.	4.	Juribašić, M., Bregović, N., Stilinović, V., Tomišić, V., Cindrić, M., Šket, P., Plavec, J., Rubčić, M., Užarević, K. Supramolecular stabilization of metastable tautomers in solution and the solid state Chemistry - A European Journal, 20 (52), 17333-17345 (2014).
2050.	5.	Filarowski, A., Lopatkova, M., Lipkowski, P., Van Der Auweraer, M., Leen, V., Dehaen, W. Solvatochromism of BODIPY-Schiff dye Journal of Physical Chemistry B, 119 (6), 2576-2584 (2015).
2051.	6.	George, L., Kunhikannan, A.K., Illathvalappil, R., Ottoor, D., Kurungot, S., Devi, R.N. Understanding the electron transfer process in ZnO-naphthol azobenzoic acid composites from photophysical characterisation Physical Chemistry Chemical Physics, 18 (32), 22179-22187 (2016).
2052.	7.	Užarević, K., Stilinović, V., Rubčić, M. Supramolecular Control over Tautomerism in Organic Solids Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 295-328 (2016).
2053.	8.	Patil, C.J., Rajput, S.V. Coupling Reactions Involving Aryldiazonium salt: Part-ix. Review on Synthesis of azo-Phenolic Derivatives, their Applications and Biological Activities International Journal of Recent Scientific Research, 10 (04G), 32144-32156 (2019).
2054.	9.	Mohammadnezhad, G., Farrokhpour, H., Görls, H., Plass, W. Tautomerism in carbohydrate-derived salicylidene schiff bases: Solution, solid-state, and theoretical investigations Journal of Molecular Structure, 1230, art. no. 129853 (2021).
C.50. Solid state tautomerism in 2-((phenylimino)methyl)-naphthalene-1-ol. D.Nedeltcheva, F.S.Kamounah, L.Mirolo, K.M.Fromm & L.Antonov; <i>Dyes and Pigments</i> , 83 , 121-126 (2009)		
2055.	1.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
2056.	2.	Ghandi, M., Salahi, S., Hasani, M. A mild, expedient, one-pot trifluoromethanesulfonic anhydride mediated synthesis of N-arylimidates Tetrahedron Letters, 52 (2), 270-273 (2011).
2057.	3.	Saleem, L.M.N., Sultan, R.H. Keto-enol tautomerism of 2-hydroxy naphthylideneaniline with Lanthanide shift reagent Pr(fod) ₃ in different solvents Oriental Journal of Chemistry, 28 (3), 1189-1193 (2012).
2058.	4.	Özdemir, N., Dayan, S., Dayan, O., Dinçer, M., Kalaycıoğlu, N.O. Experimental and molecular modeling investigation of (E)-N-{2-[(2-hydroxybenzylidene)amino]phenyl}benzenesulfonamide Molecular Physics, 111 (6), 707-723 (2013).
2059.	5.	Duarte, L., Giuliano, B.M., Reva, I., Fausto, R. Tautomers and UV-induced photoisomerization of a strongly intramolecularly H-bonded aromatic azo-dye: 1-(cyclopropyl)diazo-2-naphthol Journal of Physical Chemistry A, 117 (41), 10671-10680 (2013).
2060.	6.	Pyta, K., Przybylski, P., Klich, K., Schilf, W., Kamieński, B., Grech, E., Kołodziej, B., Szady-Chelmieńska, A., Brzezinski, B. Impact of metal cation complexation and protonation on tautomeric and resonance forms of the oxaalkyl Schiff bases derived from 5-substituted salicylaldehyde and 2-hydroxy-1-naphthaldehyde Structural Chemistry, 25 (6), 1733-1746 (2014).
2061.	7.	Duarte, L.

		Photochemistry and Structure of Aromatic Azo Compounds Isolated in Cryogenic Noble-Gas Matrices Tese de doutoramento, Universidade de Coimbra (2014).
2062.	8.	Adriano Junior, L., Fonseca, T.L., Castro, M.A. Solvent effects on the absorption spectrum and first hyperpolarizability of keto-enol tautomeric forms of anil derivatives: A Monte Carlo/quantum mechanics study Journal of Chemical Physics, 144 (23), art. 234511, (2016).
2063.	9.	Nartop, D., Özdemir, Ö., Gürkan, P. Synthesis, characterization and investigation of tautomeric, potentiometric and antimicrobial properties of a novel unsymmetric Schiff base and its Fe(III) and Ni(II) complexes Moroccan Journal of Chemistry, 5 (4), 560-572 (2017).
2064.	10.	Zhou, J.-L., Guo, L., Yu, W.-D., Zhang, Z.-H., Wang, Y., Yan, J. Impact of ligand rotation: Synthesis, crystal structures and third-order nonlinear optical properties of Mn(II), Cu(II) and Ni(II) complexes with 5 - diethylamino - 2 - ((4 - (phenyldiazenyl) phenylimino) methyl) phenol Inorganic Chemistry Communications, 99, 189-194 (2019).
C.51. Exploiting the tautomerism for switching/signaling purposes. <u>L.Antonov</u> , V.Deneva, S.Simeonov, V.Kurteva, D.Nedeltcheva & J.Wirz; <i>Angewandte Chemie International Edition</i> , 48 , 7875-7878 (2009)		
2065.	1.	Lee, H.Y., Song, X., Park, H., Baik, M.-H., Lee, D. Torsionally responsive C 3-symmetric Azo dyes: Azo-hydrazone tautomerism, conformational switching, and application for chemical sensing Journal of the American Chemical Society, 132 (34), 12133-12144 (2010).
2066.	2.	Ali, S.T. Quantum Chemical Modelling of Molecular Switches Based on Tautomerism PhD Thesis, University of Graz, Austria (2010).
2067.	3.	Alkorta, I., Elguero, J. Modeling the allosteric effect: Modification of the tautomerism by intermolecular interactions and extension to molecular wires Structural Chemistry, 22 (3), 707-715 (2011).
2068.	4.	Tian, M., Ihmels, H. Selective colorimetric detection of Hg 2+ and Mg 2+ with crown ether substituted N-Aryl-9-aminobenzo[b]quinolizinium derivatives European Journal of Organic Chemistry, (22), 4145-4153 (2011).
2069.	5.	Alkorta, I., Elguero, J., Popelier, P.L.A. Thermodynamic and kinetic effects of Lewis acid complexation on a Schiff base present in two tautomeric forms Journal of Physical Organic Chemistry, 24 (9), 744-750 (2011).
2070.	6.	Todorov, A.R., Nieger, M., Helaja, J. Tautomeric switching and metal-cation sensing of ligand-equipped 4-hydroxy-/4-oxo-1,4-dihydroquinolines Chemistry - A European Journal, 18 (23), 7269-7277 (2012).
2071.	7.	Abood Hameed, S., Alrouby, S.K., Hilal, R. Design of molecular switching and signaling based on proton transfer in 2-hydroxy Schiff bases: A computational study Journal of Molecular Modeling, 19 (2), 559-569 (2013).
2072.	8.	Duarte, L., Giuliano, B.M., Reva, I., Fausto, R. Tautomers and UV-induced photoisomerization of a strongly intramolecularly H-bonded aromatic azo-dye: 1-(cyclopropyl)diazo-2-naphthol Journal of Physical Chemistry A, 117 (41), 10671-10680 (2013).
2073.	9.	Izawa, Y., Zheng, C., Stahl SS. Aerobic oxidative Heck/dehydrogenation reactions of cyclohexenones: efficient access to meta-substituted phenols Angewandte Chemie International Edition, Supplementary Information, 52 (13), 3672-3675 (2013).

2074.	10.	Cui, G., Guan, P.-J., Fang, W.-H. Photoinduced proton transfer and isomerization in a hydrogen-bonded aromatic Azo compound: A CASPT2//CASSCF study Journal of Physical Chemistry A, 118 (26), 4732-4739 (2014).
2075.	11.	Ding, Y., Li, X., Hill, J.P., Ariga, K., Ågren, H., Andréasson, J., Zhu, W., Tian, H., Xie, Y. Acid/base switching of the tautomerism and conformation of a dioxoporphyrin for integrated binary subtraction Chemistry - A European Journal, 20 (40), 12910-12916 (2014).
2076.	12.	Juribašić, M., Bregović, N., Stilinović, V., Tomišić, V., Cindrić, M., Šket, P., Plavec, J., Rubčić, M., Užarević, K. Supramolecular stabilization of metastable tautomers in solution and the solid state Chemistry - A European Journal, 20 (52), 17333-17345 (2014).
2077.	13.	Irshaidat, T. Molecular Properties and H-bonding in N-8-quinoliny-2-hydroxynaphthalaldimine and its azo-analogue Journal of The Chemical Society Of Pakistan, 36, 1071-1078 (2014).
2078.	14.	Duarte, L. Photochemistry and Structure of Aromatic Azo Compounds Isolated in Cryogenic Noble-Gas Matrices Tese de doutoramento, Universidade de Coimbra (2014).
2079.	15.	El-Amri, A., Elroby, S.A., Kühn, O., Hilal, R.H. Toward understanding tautomeric switching in 4-hydroxynaphthaldehyde and its dimers: A DFT and quantum topology study Journal of Theoretical and Computational Chemistry, 14 (5), art. 1550033, (2015).
2080.	16.	El-Amry, A., Elroby, S.A., Kühn, O., Hilal, R.H. Toward understanding tautomeric switching in hydroxynaphthaldehydes: Characterization of electronic absorption spectra Journal of Theoretical and Computational Chemistry, 14 (3), art. 1550016, (2015).
2081.	17.	Irshaidat, T. Molecular properties and H-bonding in N-8-quinoliny-2-hydroxynaphthalaldimine and its Azo-analogue Journal of the Chemical Society of Pakistan, 36 (6), 1071-1078 (2015).
2082.	18.	Sakai, N., Hori, H., Yoshida, Y., Konakahara, T., Ogiwara, Y. Copper(I)-catalyzed coupling reaction of aryl boronic acids with N,O-acetals and N,N-aminals under atmosphere leading to α -aryl glycine derivatives and diarylmethylamine derivatives Tetrahedron, 71 (29), 4722-4729 (2015).
2083.	19.	Guan, P.-J., Cui, G., Fang, Q. Computational photochemistry of the azobenzene scaffold of Sudan I and orange II dyes: Excited-state proton transfer and deactivation via conical intersections ChemPhysChem, 16 (4), 805-811 (2015).
2084.	20.	Cigáň, M., Jakusová, K., Donovalová, J., Filo, J., Horváth, M., Gáplovský, A. Fluorescence of isatin N-phenylsemicarbazones: Aggregation and hydrazide-hydrazonol tautomerism Journal of Physical Organic Chemistry, 28 (5), 337-346 (2015).
2085.	21.	Steinwand, S., Halbritter, T., Rastädter, D., Ortiz-Sánchez, J.M., Burghardt, I., Heckel, A., Wachtveitl, J. Ultrafast Spectroscopy of Hydroxy-Substituted Azobenzenes in Water Chemistry - A European Journal, 21 (44), 15720-15731 (2015).
2086.	22.	Fabian, W.M.F., Ali, S.T. Design of molecular switches and sensors based on proton transfer - Theory vs. Experiment AIP Conference Proceedings, 1642, 465-468 (2015).
2087.	23.	Tiwari, K. Synthesis and Characterization of some Schiff Bases as Chemosensors for the Detection of Al ³⁺ and Water Content

		PhD Thesis, Banras Hindu University (2015).
2088.	24.	Xie, B.-B., Li, C.-X., Cui, G.-L., Fang, Q. Excited-State Proton Transfer and Decay in Hydrogen-Bonded Oxazole System: MS-CASPT2//CASSCF Study Chinese Journal of Chemical Physics, 29 (1), 38-46 (2016).
2089.	25.	Raskar, R. Y., Pingale, S. S., Density functional investigation of substituent effect driven tautomeric switching in salicylate anion Quantum Matter, 5, 369-371 (2016).
2090.	26.	Dubonosov, A.D., Bren, V.A., Minkin, V.I. Enolimine–Ketoenamine Tautomerism for Chemosensings Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 229-252 (2016).
2091.	27.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
2092.	28.	Irshaidat, T. Toward exploring novel organic materials: MP4-DFT properties of 4-amino-3-iminoindene Molecules, 22 (5), art. 720, (2017).
2093.	29.	Qiu, H., Arman, H., Hu, W., Doyle, M.P. Intramolecular cycloaddition/rearrangement cascade from gold(iii)-catalysed reactions of propargyl aryldiazoesters with cinnamyl imines Chemical communications (Cambridge, England), 54 (91), 12828-12831 (2018).
2094.	30.	Das, D., Roy Choudhury, A. Water-assisted ground state intra-molecular proton transfer in 2,5-dihydroxy-substituted azobenzenes: experimental and computational studies CrystEngComm, 21 (14), 2373-2380 (2019).
2095.	31.	Filo, J., Tisovský, P., Csicsai, K., Donovalová, J., Gáplovský, M., Gáplovský, A., Cigáň, M. Tautomeric photoswitches: Anion-assisted azo/azine-to-hydrazone photochromism RSC Advances, 9 (28), 15910-15916 (2019).
2096.	32.	Abe, I., Hara, M., Seki, T., Cho, S.J., Shimizu, M., Matsuura, K., Cheong, H.-K., Kim, J.Y., Oh, J., Jung, J., Han, M. A trigonal molecular assembly system with the dual light-driven functions of phase transition and fluorescence switching Journal of Materials Chemistry C, 7 (8), 2276-2282 (2019).
2097.	33.	Kwiatkowski, A., Kolehmainen, E., Osmiałowski, B. Conformational and Tautomeric Control by Supramolecular Approach in Ureido-N-iso-propyl,N'-4-(3-pyridin-2-one)pyrimidine Molecules, 24 (13), art. 2491 (2019).
2098.	34.	Jhulki, S., Evans, A.M., Hao, X.-L., Cooper, M.W., Feriante, C.H., Leisen, J., Li, H., Lam, D., Hersam, M.C., Barlow, S., Brédas, J.-L., Dichtel, W.R., Marder, S.R. Humidity Sensing through Reversible Isomerization of a Covalent Organic Framework Journal of the American Chemical Society, 142 (2), 783-791 (2020).
2099.	35.	Pracht, P., Bohle, F., & Grimme, S. Automated Exploration of the low-energy Chemical Space with fast Quantum Chemical Method Physical Chemistry Chemical Physics, 22 (14), 7169-7192 (2020).
2100.	36.	Brovarets', O.O., Hovorun, D.M. A new era of the prototropic tautomerism of the quercetin molecule: A QM/QTAIM computational advances Journal of Biomolecular Structure and Dynamics, 38 (16), 4774-4800 (2020).
2101.	37.	Zhang, J., Qi, S., Zhang, C., Fan, Z., Ding, Q., Mao, S., Dong, Z. Controlling Keto-Enol Tautomerism of Ureidopyrimidinone to Generate a Single-Quadruple AADD-DDAA Dimeric Array

		Organic Letters, 22 (18), 7305-7309 (2020).
2102.	38.	Guo, Q., Ji, D., Zhao, J. Theoretical insights into photochemical behavior and ESIPT mechanism for 2,6-dimethyl phenyl derivatives Chemical Physics Letters, 767, art. no. 138377 (2021).
2103.	39.	Slitikov, P.V., Evdokimenkova, Y.B. Aminomethylated hydroxynaphthalenes: synthesis and application Herald of The Bawman Moskow State Technical University, Series Natural sciences, 94 (1), 126-143 (2021).
2104.	40.	Tang, Y., Huang, W., Chinnam, A.K., Singh, J., Staples, R.J., Shreeve, J.M. Energetic Tricyclic Polynitropyrrole and Its Salts: Proton-Locking Effect of Guanidium Cations Inorganic Chemistry, 60 (11), 8339-8345 (2021).
C.52. Tautocrowns: azacrown moiety conjugated to a tautomeric Schiff base. V.Deneva, N.Burdzhiev, E.Stanoeva & L.Antonov; <i>Spectroscopy Letters</i> , 43 , 22-27 (2010)		
2105.	1.	Martyanov, T.P., Klimenko, L.S., Kozlovskiy, V.I., Ushakov, E.N. Tautomeric chromoionophores derived from 1-aryloxanthraquinones and 4'-aminobenzo-15-crown-5 ether: Sandwich complex formation enhanced by interchromophoric interactions Tetrahedron, 73 (6), 681-691 (2017).
2106.	2.	Kudrevatykh, A.A., Neznaeva, D.A., Martyanov, T.P., Klimenko, L.S. Effect of substituents on cation-receptor properties of crown-containing 1-hydroxyanthraquinone imines Russian Chemical Bulletin, 68 (3), 623-627 (2019).
C.53. Tautocrowns: a concept for a sensing molecule with an active side-arm. L.Antonov, V.Kurteva, S.Simeonov, V.Deneva, A.Crochet & K.M.Fromm; <i>Tetrahedron</i> , 66 , 4292-4297 (2010)		
2107.	1.	Tian, M., Ihmels, H. Selective colorimetric detection of Hg 2+ and Mg 2+ with crown ether substituted N-Aryl-9-aminobenzo[b]quinolizinium derivatives European Journal of Organic Chemistry, (22), 4145-4153 (2011).
2108.	2.	Newkome, G.R. Eight-membered and larger rings Progress in Heterocyclic Chemistry, 23, 505-524 (2011).
2109.	3.	Zhang, Q., Xu, J. Two chemosensors based on the fluorescent group armed-azacrown ether Acta Chimica Sinica, 69 (19), 2287-2292 (2011).
2110.	4.	Zarei, M., Jarrahpour, A. Green and efficient synthesis of azo schiff bases Iranian Journal of Science and Technology, Transaction A: Science, 35 (3), 235-242 (2011).
2111.	5.	Todorov, A.R., Nieger, M., Helaja, J. Tautomeric switching and metal-cation sensing of ligand-equipped 4-hydroxy-/4-oxo-1,4-dihydroquinolines Chemistry - A European Journal, 18 (23), 7269-7277 (2012).
2112.	6.	Eissa, H.H. Synthesis and characterization of new azo-schiff bases and study biological activity, Journal of Current Research in Science, 1, 96-103 (2013).
2113.	7.	Eissa, H.H., Hamak, K. Synthesis of azo-schiff bases, their thermal behavior study, and using in extraction of copper (Cu2+) Journal of Current Research in Science, 1, 276-281 (2013).
2114.	8.	Eissa, H.H., Hamak, K. Synthesis of azo-schiff bases, their thermal behavior study, and using in extraction of copper (Cu2+) Journal of Current Research in Science, 1, 385-391 (2013).
2115.	9.	Eissa, H.H.

		Synthesis and characterization of new azo-schiff bases and study biological activity Journal of Current Research in Science, 1, 444-450 (2013).
2116.	10.	Eissa, H.H. Synthesis of new macrocyclic Schiff base ligands and investigation of their ion extraction capability from aqueous media International Journal of Current Research in Chemistry and Pharmaceutical Sciences, 1, 65-76 (2014).
2117.	11.	Maki, H., Kataoka, D., Mizuhata, M. 15N and 31P NMR Insights into Lactam-Lactim Tautomerism Activity Using cyclo- μ -Imidopolyphosphates Journal of Physical Chemistry B, 119 (37), 12289-12298 (2015).
2118.	12.	Fabian, W.M.F., Ali, S.T. Design of molecular switches and sensors based on proton transfer - Theory vs. Experiment AIP Conference Proceedings, 1642, 465-468 (2015).
2119.	13.	Eissa, H.H. Extraction of Cr(III), Co(II), Cd(II) ions and determination of kinetic parameters for azo-Schiff bases depending on extraction technique International Journal of Current Research in Chemistry and Pharmaceutical Sciences, 2, 84-94 (2015).
2120.	14.	Dubonosov, A.D., Bren, V.A., Minkin, V.I. Enolimine–Ketoenamine Tautomerism for Chemosensings Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 229-252 (2016).
2121.	15.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
2122.	16.	Al Hakimi, N.S. Sintesis senyawa imina dari vanillin dan aniline dengan variasi jumlah katalis air jeruk nipis PhD Thesis, Universitas Islam Negeri Maulana Malik Ibrahim Malang (2016).
2123.	17.	Ashraf, J., Murtaza, S., Mughal, E.U., Sadiq, A. Synthesis, biological activity and computational studies of novel azo-compounds Journal of the Chemical Society of Pakistan, 39 (1), 65-71 (2017).
2124.	18.	Martyanov, T.P., Klimenko, L.S., Kozlovskiy, V.I., Ushakov, E.N. Tautomeric chromoionophores derived from 1-aryloxanthraquinones and 4'-aminobenzo-15-crown-5 ether: Sandwich complex formation enhanced by interchromophoric interactions Tetrahedron, 73 (6), 681-691 (2017).
2125.	19.	Wagner-Wysiecka, E., Szarmach, M., Chojnacki, J., Łukasik, N., Luboch, E. Cation sensing by diphenyl-azobenzocrowns Journal of Photochemistry and Photobiology A: Chemistry, 333, 220-232 (2017).
2126.	20.	Al-salami, A. M., Al-khafaf, N.I., Al-Jaboure, A.K. Synthesis of azo- Schiff base and azo-oxazepine compounds from nucleus of 2,6-diaminopyridine by using microwave irradiation Kirkuk University Journal /Scientific Studies (KUJSS), 12, 435-446 (2017).
2127.	21.	Wagner-Wysiecka, E., Łukasik, N., Biernat, J.F., Luboch, E. Azo group(s) in selected macrocyclic compounds Journal of Inclusion Phenomena and Macrocyclic Chemistry, 90 (3-4), 189-257 (2018).
2128.	22.	Kudrevatykh, A.A., Neznaeva, D.A., Martyanov, T.P., Klimenko, L.S. Effect of substituents on cation-receptor properties of crown-containing 1-hydroxyanthraquinone imines Russian Chemical Bulletin, 68 (3), 623-627 (2019).
2129.	23.	Angelova, S. Complexation of IA and IIA group metal ions by N-phenylaza-15-crown-5 containing Schiff

		bases: A DFT study Inorganica Chimica Acta, 487, 316-321 (2019).
2130.	24.	Brovarets', O.O., Hovorun, D.M. A new era of the prototropic tautomerism of the quercetin molecule: A QM/QTAIM computational advances Journal of Biomolecular Structure and Dynamics, 38 (16), 4774-4800 (2020).
C.54. Solvent effects on the second-order nonlinear optical responses in the keto-enol equilibrium of a 2-hydroxy-1-naphthaldehyde derivative. E.Bogdan, A.Plaquet, L.Antonov, V.Rodriguez, L.Ducasse, B.Champagne & F.Castet; <i>Journal of Physical Chemistry</i> , 114C , 12760-12768 (2010)		
2131.	1.	Sliwa, M., Naumov, P., Choi, H.-J., Nguyen, Q.-T., Debus, B., Delbaere, S., Ruckebusch, C. Effects of a self-assembled molecular capsule on the ultrafast photodynamics of a photochromic salicylideneaniline guest ChemPhysChem, 12 (9), 1669-1672 (2011).
2132.	2.	Marini, A., MacChi, S., Jurinovich, S., Catalano, D., Mennucci, B. Integrated NMR and computational study of push-pull NLO probes: Interplay of solvent and structural effects Journal of Physical Chemistry A, 115 (35), 10035-10044 (2011).
2133.	3.	Kim, J., Kwon, O.-P., Jazbinsek, M., Park, Y.C., Seo, J.-I., Lee, Y.S. Quantum chemical evaluation of ionic nonlinear optical chromophores and crystals considering the counteranion effects Journal of Physical Chemistry C, 115 (47), 23535-23542 (2011).
2134.	4.	Muhammad, S., Minami, T., Fukui, H., Yoneda, K., Kishi, R., Shigeta, Y., Nakano, M. Halide ion complexes of decaborane (B ₁₀ H ₁₄) and their derivatives: Noncovalent charge transfer effect on second-order nonlinear optical properties Journal of Physical Chemistry A, 116 (5), 1417-1424 (2012).
2135.	5.	Zeng, Q., Liu, L., Zhu, W., Yang, M. Local and nonlocal contributions to molecular first-order hyperpolarizability: A Hirshfeld partitioning analysis Journal of Chemical Physics, (2012).
2136.	6.	Zhang, L., Qi, D., Zhao, L., Chen, C., Bian, Y., Li, W. Density functional theory study on subtriaporphyrin derivatives: Dipolar/octupolar contribution to the second-order nonlinear optical activity Journal of Physical Chemistry A, 136 (22), art. 224304, (2012).
2137.	7.	Zhou, Y.-Q., Wang, N.-X., Xing, Y., Wang, Y.-J., Hong, X.-W., Zhang, J.-X., Chen, D.-D., Geng, J.-B., Dang, Y., Wang, Z.-X. Stable acyclic aliphatic solid enols: Synthesis, characterization, X-ray structure analysis and calculations Scientific Reports, 116 (41), 10249-10256 (2013).
2138.	8.	Liu, C.-G., Guan, X.-H. Computational study on redox-switchable second-order nonlinear optical properties of totally inorganic keggins-type polyoxometalate complexes Journal of Physical Chemistry C, 117 (15), 7776-7783 (2013).
2139.	9.	De, S., Ray, M., Pati, A.Y., Das, P.K. Base triggered enhancement of first hyperpolarizability of a keto-enol tautomer Journal of Physical Chemistry B, 117 (48), 15086-15092 (2013).
2140.	10.	Alyar, H. A review on nonlinear optical properties of donor-acceptor derivatives of naphthalene and azanaphthalene Reviews on Advanced Materials Science, 34 (1), 79-87 (2013).
2141.	11.	Chen, C., Zhang, L., Zhao, L., Qi, D., Jiang, J. Density functional theory prediction for the second-order nonlinear optical responses of phenanthroline-fused phthalocyanine derivatives Journal of Porphyrins and Phthalocyanines, 18 (1-2), 58-66 (2014).
2142.	12.	Liu, C.-G., Gao, M.-L., Wu, Z.-J. Computational study on redox-switchable second-order nonlinear optical properties of

		ferrocene-tetrathiafulvalene hybrid RSC Advances, 4 (72), 38300-38309 (2014).
2143.	13.	Chen, K.J., Laurent, A.D., Jacquemin, D. Strategies for designing diarylethenes as efficient nonlinear optical switches Journal of Physical Chemistry C, 118 (8), 4334-4345 (2014).
2144.	14.	Satam, M.A., Telore, R.D., Tathe, A.B., Gupta, V.D., Sekar, N. A combined theoretical and experimental investigation on the solvatochromism of ESIPT3-(1,3-benzothiazol-2-yl)-2-hydroxynaphthalene-1- carbaldehyde Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 127, 16-24 (2014).
2145.	15.	Laurent, A.D., Adamo, C., Jacquemin, D. Dye chemistry with time-dependent density functional theory Physical Chemistry Chemical Physics, 16 (28), 14334-14356 (2014).
2146.	16.	Yu, H., Hong, B., Luo, Y., Zhao, H. Photoisomerization-switchable second-order nonlinear optical responses of dithienylethene-containing boron derivatives: A theoretical study Canadian Journal of Chemistry, 93 (3), 297-302 (2014).
2147.	17.	Rawat, M.S.M., Mal, S., Singh, P. Photochromism in Anils - A Review Open Chemistry Journal, 2, 7-19 (2015).
2148.	18.	Tiwari, K. Synthesis and Characterization of some Schiff Bases as Chemosensors for the Detection of Al ³⁺ and Water Content PhD Thesis, Banras Hindu University (2015).
2149.	19.	Adriano Junior, L., Fonseca, T.L., Castro, M.A. Solvent effects on the absorption spectrum and first hyperpolarizability of keto-enol tautomeric forms of anil derivatives: A Monte Carlo/quantum mechanics study Journal of Chemical Physics, 144 (23), art. 234511, (2016).
2150.	20.	Ejuh, G.W., Samuel, N., Fridolin, T.N., Marie, N.J. Computational determination of the Electronic and Nonlinear Optical properties of the molecules 2-(4-aminophenyl) Quinoline, 4-(4-aminophenyl) Quinoline, Anthracene, Anthraquinone and Phenanthrene Materials Letters, 178, 221-226 (2016).
2151.	21.	Yu, H.-L., Wang, W.-Y., Hong, B., Si, Y.-L., Ma, T.-L., Zheng, R. First hyperpolarizabilities of Pt(4-ethynylbenzo-15-crown-5)2(bpy) derivatives with the complexation of mono-cations (Li ⁺ , Na ⁺ , K ⁺) and di-cations (Mg ²⁺ , Ca ²⁺): Development of a cation detector RSC Advances, 7 (66), 41830-41837 (2017).
2152.	22.	Poma, A., Forni, A., Baldoli, C., Mussini, P.R., Bossi, A. Cyclometalated Pt(II) complexes with a bidentate Schiff-base ligand displaying unexpected: Cis / trans isomerism: Synthesis, structures and electronic properties Dalton Transactions, 46 (37), 12500-12506 (2017).
2153.	23.	Attar, S., Espa, D., Artizzu, F., Pilia, L., Serpe, A., Pizzotti, M., Di Carlo, G., Marchiò, L., Deplano, P. Optically Multiresponsive Heteroleptic Platinum Dithiolene Complex with Proton-Switchable Properties Inorganic Chemistry, 56 (12), 6763-6767 (2017).
2154.	24.	Peyghami, S., Sharifi, S., Rakhshanizadeh, F., Alizadeh, K. Nonlinear optical properties of Rose Bengal: Effect of environment Journal of Molecular Liquids, 246, 157-165 (2017).
2155.	25.	Vahedi, K., Sharifi, S., Alizadeh, K., Marti, O., Amirkhani, M. Enhancement of nonlinear optical response and fluorescence spectra of cationic neutral red by anionic surfactant Optical and Quantum Electronics, 50 (1), art. 24, (2018).
2156.	26.	Virkki, M., Maurice, A., Forni, A., Sironi, M., Dichiarante, V., Brevet, P.-F., Metrangolo, P., Kauranen, M., Priimagi, A.

		On the molecular optical nonlinearity of halogen-bond-forming azobenzenes Physical Chemistry Chemical Physics, 20 (45), 28810-28817 (2018).
2157.	27.	Hänsel, M., Barta, C., Rietze, C., Utecht, M., Rück-Braun, K., Saalfrank, P., Tegeder, P. Two-Dimensional Nonlinear Optical Switching Materials: Molecular Engineering toward High Nonlinear Optical Contrasts Journal of Physical Chemistry C, 112 (44), 25555-25564 (2018).
2158.	28.	Ye, J., Wang, L., Wang, H., Pan, X., Xie, H., Qiu, Y. DFT/TDDFT, NPA, and AIM-based study of the molecular switching properties of photocyclization and metallochromism of the DAE complexes Theoretical Chemistry Accounts, 137 (2), art. 22, (2018).
2159.	29.	Elhorri, A.M., Belaid, K.D., Zouaoui-Rabah, M., Chadli, R. Theoretical study of the azo dyes dissociation by advanced oxidation using Fukui indices. DFT calculations Computational and Theoretical Chemistry, 1130, 98-106 (2018).
2160.	30.	Torres, E.M., Georg, H.C., Fonseca, T.L., Castro, M.A. First hyperpolarizability of isomers of pyridinium N-phenoxide betaine dye in solution using the ASEC-FEG method Chemical Physics Letters, 699, 261-266 (2018).
2161.	31.	Yan, L., Liu, C., Jiang, M. Theoretical Study on Cation Detection Ability of Pyridine-substituted Lindqvist-type Ployoxometalates Based on Linear and Nonlinear Optical Properties [吡啶取代的 Lindqvist 型多酸的线性和非线性光学性质及阳离子检测功能的理论研究] Gaodeng Xuexiao Huaxue Xuebao/Chemical Journal of Chinese Universities, 39 (5), 1034-1040 (2018).
2162.	32.	Abegaõ, L.M.G., Fonseca, R.D., Santos, F.A., Rodrigues, J.J., Kamada, K., Mendonca, C.R., Piguel, S., De Boni, L. First molecular electronic hyperpolarizability of series of π -conjugated oxazole dyes in solution: An experimental and theoretical study RSC Advances, 9 (45), 26476-26482 (2019).
2163.	33.	Hureau, M., Moissette, A., Smirnov, K.S. A spectroscopic study of tautomeric equilibrium of salicylideneaniline in ZSM-5 zeolites Molecules, 24 (4), art. 795 (2019).
2164.	34.	Hoseini, M., Sazgarnia, A., Sharifi, S. Effect of Environment on Protoporphyrin IX: Absorbance, Fluorescence and Nonlinear Optical Properties Journal of Fluorescence, 29 (3), 531-540 (2019).
2165.	35.	Arif, A.M., Yousaf, A., Zhong, R.-L., Akhtar, M., Muhammad, S., Xu, H.-L., Su, Z.-M. Metal ions doped into merocyanine form of coumarin derivatives: nonlinear optical molecular switches Journal of Molecular Modeling, 25 (8), art. 212 (2019).
2166.	36.	Torres, E.M., Adriano Junior, L., Georg, H.C., Castro, M.A., Fonseca, T.L. The influence of geometry relaxation in solution on the first hyperpolarizability of mesoionic compounds Chemical Physics Letters, 736, art. 136798 (2019).
2167.	37.	Li, X., Zhang, Y., Lu, J. Remarkably enhanced first hyperpolarizability and nonlinear refractive index of novel graphdiyne-based materials for promising optoelectronic applications: A first-principles study Applied Surface Science, 512, art. 145544 (2020).
2168.	38.	Zhao, G.-C., Liu, C.-G. Twisted chromophore assist to tetrathiafulvalene-spiropyran hybrid driving four-state molecular switch Computational and Theoretical Chemistry, 1186, art. no. 112915 (2020).
2169.	39.	Li, Y., Ruan, M., Chen, H. Decorating electron redundant Si _n Al _{12-n} N ₁₂ (n = 1, 2) nanocages with superalkalis M ₃ O (M = Li, Na, K): excess electron D-A frameworks and nonlinear optical properties

		Molecular Physics, 119 (10), art. no. e1909161 (2021).
C.55. Gas phase study of molecular switches based on tautomeric proton transfer. D.Nedeltcheva, V.Kurteva & L.Antonov; <i>European Journal of Mass Spectrometry</i> , 17 , 47-56 (2011)		
2170.	1.	Sadlej-Sosnowska, N. Switching properties of Li-benzene complexes in a uniform electric field: A case where a "small" change makes a big difference <i>Physical Chemistry Chemical Physics</i> , 17 (37), 23716-23719 (2015).
2171.	2.	Тхани, А.С.М.З. Таутомерия и екстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
2172.	3.	Liu, Y., He, Y., Yang, Y., Liu, Y. Theoretical study on the detailed excited state triple proton transfer mechanism of cyclic 6-Azaindole trimer <i>Chemical Physics Letters</i> , 762, art. no. 138137 (2021).
C.56. Aggregation of 2-aminobenzimidazole – a combined experimental and theoretical investigation. S.Angelova, M.Spassova, V.Deneva, M.Rogojerov & L.Antonov; <i>ChemPhysChem</i> , 12 , 1747-1755 (2011)		
2173.	1.	Sudha, S., Karabacak, M., Kurt, M., Cinar, M., Sundaraganesan, N. Molecular structure, vibrational spectroscopic, first-order hyperpolarizability and HOMO, LUMO studies of 2-aminobenzimidazole <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 84 (1), 184-195 (2011).
2174.	2.	Eadie, R., Richmond, C., Moreton, S., Cronin, L. Switching between ring closed and open N-incorporated heterocycles with tuneable charges and modular reactivity based upon 5-(2-bromoethyl) phenanthridinium bromide <i>Organic and Biomolecular Chemistry</i> , 10 (10), 2026-2034 (2012).
2175.	3.	Tian, M., Wang, C., Wang, L., Luo, K., Zhao, A., Guo, C. Study on the synthesis and structure-effect relationship of multi-aryl imidazoles with their fluorescence properties <i>Luminescence</i> , 29 (5), 540-548 (2014).
2176.	4.	Ajaj, I., Markovski, J., Marković, J., Jovanović, M., Milčić, M., Assaleh, F., Marinković, A. Solvent and structural effects in tautomeric 3-cyano-4-(substituted phenyl)-6-phenyl-2(1H)-pyridones: Experimental and quantum chemical study <i>Structural Chemistry</i> , 25 (4), 1257-1270 (2014).
C.57. (E)-1-(4-Methoxyanthracen-1-yl)-2-phenyldiazene. A.Crochet, K.M.Fromm, V.Kurteva & L.Antonov; <i>Acta Crystallographica</i> , E67 , o993 (2011)		
C.58. Tautomerism in 1-phenylazo-4-naphthols: experimental results vs quantum-chemical predictions. L.Antonov, V.Kurteva, A.Crochet, L.Mirola, K.Fromm & S.Angelova; <i>Dyes and Pigments</i> , 92 , 714-723 (2012)		
2177.	1.	Najafi Chermhini, A., Abedi, M., Farrokhpour, H., Teimouri, A., Reisi, B. Theoretical studies on the tautomerism of tetrazole selenone <i>Journal of Molecular Modeling</i> , 19 (10), 4377-4386 (2013).
2178.	2.	Beni, A.S., Chermahini, Z.J. Theoretical studies on tautomerism of 1H-pyrazole-5-thiol <i>Structural Chemistry</i> , 24 (5), 1713-1723 (2013).
2179.	3.	Seferoğlu, Z., Kaynak, F. B., Ertan, N., Özbey, S. Hetarylazoindoles 2. Spectroscopic and structural investigation of new benzothiazolylazo indole dyes <i>Journal of Molecular Structure</i> , 1047, 22-30 (2013).
2180.	4.	Fabian, W.M.F. Quantum Chemical Calculation of Tautomeric Equilibria <i>Tautomerism: Methods and Theories</i> , 337-368 (2013).
2181.	5.	Zhang, L., Cole, J.M., Liu, X. Tuning solvatochromism of Azo dyes with intramolecular hydrogen bonding in solution and on titanium dioxide nanoparticles

		Journal of Physical Chemistry C, 117 (49), 26316-26323 (2013).
2182.	6.	Mirković, J., Rogan, J., Poleti, D., Vitnik, V., Vitnik, Ž., Uščumlić, G., Mijin, D. On the structures of 5-(4-, 3- and 2-methoxyphenylazo)-3-cyano-1-ethyl-6- hydroxy-4-methyl-2-pyridone: An experimental and theoretical study Dyes and Pigments, 104, 160-168 (2014).
2183.	7.	Cui, G., Guan, P.-J., Fang, W.-H. Photoinduced proton transfer and isomerization in a hydrogen-bonded aromatic Azo compound: A CASPT2//CASCF study Journal of Physical Chemistry A, 118 (26), 4732-4739 (2014).
2184.	8.	Ferreira, G.R. Estudo espectroscópico do equilíbrio tautomérico em azocompostos derivados do 1-fenil-azo-2-naftol e seus compostos de coordenação Doutorado em Química, Universidade Federal de Juiz de Fora (2014).
2185.	9.	Babür, B., Seferoğlu, N., Aktan, E., Hökelek, T., Şahin, E., Seferoğlu, Z. Phenylazindole dyes 3: Determination of azo-hydrazone tautomers of new phenylazindole dyes in solution and solid state Journal of Molecular Structure, 1081, 175-181 (2015).
2186.	10.	Guan, P.-J., Cui, G., Fang, Q. Computational photochemistry of the azobenzene scaffold of Sudan I and orange II dyes: Excited-state proton transfer and deactivation via conical intersections ChemPhysChem, 16 (4), 805-811 (2015).
2187.	11.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
2188.	12.	Bouhdada, M., EL Amame, M. Synthesis, characterization and spectroscopic properties of the hydrazodye and new hydrazodye-metal complexes Journal of Molecular Structure, 1150, 419-426 (2017).
2189.	13.	Zülfikaroğlu, A. Quantum chemical computational studies on a vic-dioxime ligand and its nickel complex Anadolu University Journal of Science and Technology A- Applied Sciences and Engineering, 18, 640-653 (2017).
2190.	14.	Seferoğlu, N., Toprakçioğlu, G. Detailed theoretical characterization of azo chromophores containing dicyanomethylene acceptor and various coupling components by DFT Journal of Molecular Structure, 1181, 360-372 (2019).
2191.	15.	Matovic, L., Ladarevic, J., Vitnik, Ž., Vitnik, V., Mijin, D. A detailed UV-Vis spectral investigation of six azo dyes derived from benzoic- and cinnamic acids: experimental and theoretical insight Comptes Rendus Chimie, 24 (2), 267-280 (2021).
C.59. Switching azonaphthols containing a side chain with limited flexibility. Part 1. Synthesis and tautomeric properties. V.Kurteva, L.Antonov, D.Nedeltcheva, A.Crochet, K.Fromm, R.Nikolova, B.Shivachev & M.Nikiforova; <i>Dyes and Pigments</i> , 92 , 1266-1277 (2012)		
2192.	1.	Duarte, L. Photochemistry and Structure of Aromatic Azo Compounds Isolated in Cryogenic Noble-Gas Matrices Tese de doutoramento, Universidade de Coimbra (2014).
2193.	2.	Duarte, L., Giuliano, B.M., Reva, I., Fausto, R. Tautomers and UV-induced photoisomerization of a strongly intramolecularly H-bonded aromatic azo-dye: 1-(cyclopropyl)diazo-2-naphthol Journal of Physical Chemistry A, 117 (41), 10671-10680 (2013).
2194.	3.	Ferreira, G.R. Estudo espectroscópico do equilíbrio tautomérico em azocompostos derivados do 1-fenil-

		azo-2-naftol e seus compostos de coordenação Doutorado em Química, Universidade Federal de Juiz de Fora (2014).
2195.	4.	Тхани, А.С.М.З. Таутомерия и экстракционно-фотометрическое определение фенилазонафтолов с применением смешанных мицелл поверхностно-активных веществ Диссертация, ФГБОУ ВПО Саратовский Государственный Университет имени Н. Г. Чернышевского (2016).
C.60. β -Galactosyl Yariv reagent binds to the β -1,3-Galactan of arabinogalactan proteins. K.Kitazawa, T.Tryfona, Y.Yoshimi, Y.Hayashi, S.Kawauchi, <u>L.Antonov</u> , H.Tanaka, T.Takahashi, S.Kaneko, P.Dupree, Y.Tsumuraya & T.Kotake; <i>Plant Physiology</i> , 161 , 1117-1126 (2013)		
2196.	1.	Driouich, A., Follet-Gueye, M.-L., Vitré-Gibouin, M., Hawes, M. Root border cells and secretions as critical elements in plant host defense <i>Current Opinion in Plant Biology</i> , 16 (4), 489-495 (2013).
2197.	2.	Nguema-Ona, E., Vitré-Gibouin, M., Cannesan, M.-A., Driouich, A. Arabinogalactan proteins in root-microbe interactions <i>Trends in Plant Science</i> , 18 (8), 1360-1385 (2013).
2198.	3.	Tseng, I.-C., Hong, C.-Y., Yu, S.-M., Ho, T.-H.D. Absciscic acid- and stress-induced highly proline-rich glycoproteins regulate root growth in rice <i>Plant Physiology</i> , 163 (1), 118-134 (2013).
2199.	4.	Geshi, N., Johansen, J.N., Dilokpimol, A., Rolland, A., Belcram, K., Verger, S., Kotake, T., Tsumuraya, Y., Kaneko, S., Tryfona, T., Dupree, P., Scheller, H.V., Höfte, H., Mouille, G. A galactosyltransferase acting on arabinogalactan protein glycans is essential for embryo development in Arabidopsis <i>Plant Journal</i> , 76 (1), 128-137 (2013).
2200.	5.	Misra, B.B., Dey, S. Culture of East Indian sandalwood tree somatic embryos in air-lift bioreactors for production of santalols, phenolics and arabinogalactan proteins <i>AoB PLANTS</i> , 5 , art. plt025, (2013).
2201.	6.	Xue, J. In situ analysis of grass cell wall polysaccharides. PhD thesis, University of Leeds (2013).
2202.	7.	Zhou, L.H., Weizbauer, R.A., Singamaneni, S., Xu, F., Genin, G.M., Pickard, B.G. Structures formed by a cell membrane-associated arabinogalactan-protein on graphite or mica alone and with Yariv phenylglycosides <i>Annals of Botany</i> , 114 (6), 1385-1397 (2014).
2203.	8.	Zou, Y.-F., Zhang, B.-Z., Inngjerdigen, K.T., Barsett, H., Diallo, D., Michaelsen, T.E., El-Zoubair, E., Paulsen, B.S. Polysaccharides with immunomodulating properties from the bark of <i>Parkia biglobosa</i> <i>Carbohydrate Polymers</i> , 101 (1), 457-463 (2014).
2204.	9.	Lampert, D.T.A., Varnai, P., Seal, C.E. Back to the future with the AGP-Ca ²⁺ flux capacitor <i>Annals of Botany</i> , 114 (6), 1069-1085 (2014).
2205.	10.	Knoch, E., Dilokpimol, A., Geshi, N. Arabinogalactan proteins: Focus on carbohydrate active enzymes <i>Frontiers in Plant Science</i> , 5 (JUN), art. 198, (2014).
2206.	11.	Paulsen, B.S., Craik, D.J., Dunstan, D.E., Stone, B.A., Bacic, A. The Yariv reagent: Behaviour in different solvents and interaction with a gum arabic arabinogalactanprotein <i>Carbohydrate Polymers</i> , 106 (1), 460-468 (2014).
2207.	12.	Hijazi, M., Velasquez, S.M., Jamet, E., Estevez, J.M., Albenne, C. An update on post-translational modifications of hydroxyproline-rich glycoproteins: Toward a model highlighting their contribution to plant cell wall architecture <i>Frontiers in Plant Science</i> , 5 (AUG), art. 395, (2014).
2208.	13.	Pereira, A.M., Masiero, S., Nobre, M.S., Costa, M.L., Solís, M.-T., Testillano, P.S., Sprunck, S., Coimbra, S.

		Differential expression patterns of arabinogalactan proteins in Arabidopsis thaliana reproductive tissues Journal of Experimental Botany, 65 (18), 5459–5471 (2014).
2209.	14.	Guidato, P.M. Untersuchung der immunmodulatorischen Effekte von Arabinogalaktanen aus Callus Gewebekulturen in vivo und in vitro Dissertation, Ruhr-Universität Bochum (2014).
2210.	15.	Ogawa-Ohnishi, M., Matsubayashi, Y. Identification of three potent hydroxyproline O-galactosyltransferases in Arabidopsis Plant Journal, 81 (5), 736-746 (2015).
2211.	16.	Pereira, A.M., Pereira, L.G., Coimbra, S. Arabinogalactan proteins: rising attention from plant biologists Plant Reproduction, 65 (18), 5459-5471 (2015).
2212.	17.	Yu, L., Yu, C., Zhu, M., Cao, Y., Yang, H., Zhang, X., Ma, Y., Zhou, G. Structural analysis of galactoarabinan from duckweed Carbohydrate Polymers, 117, 807-812 (2015).
2213.	18.	Basu, D., Wang, W., Ma, S., DeBrosse, T., Poirier, E., Emch, K., Soukup, E., Tian, L., Showalter, A.M. Two hydroxyproline galactosyltransferases, GALT5 and GALT2, function in arabinogalactan-protein glycosylation, growth and development in Arabidopsis PLOS ONE, 10 (5), art. e0125624a, (2015).
2214.	19.	Simonović, A.D., Filipović, B.K., Trifunović, M.M., Malkov, S.N., Milinković, V.P., Jevremović, S.B., Subotić, A.R. Plant regeneration in leaf culture of Centaurium erythraea Rafn. Part 2: the role of arabinogalactan proteins Plant Cell, Tissue and Organ Culture, 121 (3), 721-739 (2015).
2215.	20.	Drakakaki, G. Polysaccharide deposition during cytokinesis: Challenges and future perspectives Plant Science, 236, 177-184 (2015).
2216.	21.	Heise, E.M., Bossy, A., Gramann, J.-C., Classen, B. Arabinogalactan-proteins (AGPs) in the medicinal plant Echinacea purpurea [Detektion von Arabinogalaktan-Proteinen (AGPs) in der Heilpflanze Echinacea purpurea mittels Immunfluoreszenz] Zeitschrift für Phytotherapie, 36 (4), 164-170 (2015).
2217.	22.	Gannasin, S.P., Adzahan, N.M., Hamzah, M.Y., Mustafa, S., Muhammad, K. Physicochemical properties of tamarillo (Solanum betaceum Cav.) hydrocolloid fractions Food Chemistry, 182, 292-301 (2015).
2218.	23.	Hernandez-Gomez, M.C. Cell walls and cotton fibre development PhD Thesis, University of Leeds (2015).
2219.	24.	Basu, D. Identification and Characterization of Five Arabidopsis Hydroxyproline Galactosyltransferases and Their Functional Roles in Arabinogalactan-Protein Glycosylation, Growth, Development, and Cellular Signaling Doctor of Philosophy, Ohio University (2015).
2220.	25.	Seyfried, M., Soldera-Silva, A., Bovo, F., Stevan-Hancke, F.R., Maurer, J.B.B., Zawadzki-Baggio, S.F. Pectins of medicinal plants: Structural characteristics and immunomodulatory activities [Pectinas de plantas medicinais: Características estruturais e atividades imunomoduladoras] Revista Brasileira de Plantas Medicinais, 18 (1), 201-214 (2016).
2221.	26.	Koroney, A.S., Plasson, C., Pawlak, B., Sidikou, R., Driouich, A., Menu-Bouaouiche, L., Vicré-Gibouin, M. Root exudate of solanum tuberosum is enriched in galactose-containing molecules and impacts the growth of pectobacterium atrosepticum Annals of Botany, 118 (4), 797-808 (2016).

2222.	27.	Huang, Y., Zhang, M. High-strength adhesive exuded from the adventitious roots of English ivy Biological Adhesives, Second Edition, 321-344 (2016).
2223.	28.	Raimundo, S.C., Avci, U., Hopper, C., Pattathil, S., Hahn, M.G., Popper, Z.A. Immunolocalization of cell wall carbohydrate epitopes in seaweeds: presence of land plant epitopes in <i>Fucus vesiculosus</i> L. (Phaeophyceae) Planta, 243 (2), 337-354 (2016).
2224.	29.	Pereira, A.M., Nobre, M.S., Pinto, S.C., Lopes, A.L., Costa, M.L., Masiero, S., Coimbra, S. "love Is Strong, and You're so Sweet": JAGGER Is Essential for Persistent Synergid Degeneration and Polytubey Block in <i>Arabidopsis thaliana</i> Molecular Plant, 9 (4), 601-614 (2016).
2225.	30.	Pacheco-Villalobos, D., Dı́az-Moreno, S.M., van der Schuren, A., Tamaki, T., Kang, Y.H., Gujas, B., Novak, O., Jaspert, N., Li, Z., Wolf, S., Oecking, C., Ljung, K., Bulone, V., Hardtke, C.S. The effects of high steady state auxin levels on root cell elongation in brachypodium Plant Cell, 28 (5), 1009-1024 (2016).
2226.	31.	Huang, Y., Wang, Y., Tan, L., Sun, L., Petrosino, J., Cui, M.-Z., Hao, F., Zhang, M. Nanospherical arabinogalactan proteins are a key component of the high-strength adhesive secreted by English ivy Proceedings of the National Academy of Sciences of the United States of America, 113 (23), E3193-E3202 (2016).
2227.	32.	Kim, H., Hong, H.-D., Suh, H.-J., Shin, K.-S. Structural and immunological feature of rhamnogalacturonan I-rich polysaccharide from Korean persimmon vinegar International Journal of Biological Macromolecules, 89, 319-327 (2016).
2228.	33.	Canut, H., Albenne, C., Jamet, E. Post-translational modifications of plant cell wall proteins and peptides: A survey from a proteomics point of view Biochimica et Biophysica Acta - Proteins and Proteomics, 1864 (8), 983-990 (2016).
2229.	34.	Ho, G.T.T., Zou, Y.-F., Wangenstein, H., Barsett, H. RG-I regions from elderflower pectins substituted on GalA are strong immunomodulators International Journal of Biological Macromolecules, 92, 731-738 (2016).
2230.	35.	Yokoyama, R., Kuki, H., Kuroha, T., Nishitani, K. <i>Arabidopsis</i> Regenerating Protoplast: A Powerful Model System for Combining the Proteomics of Cell Wall Proteins and the Visualization of Cell Wall Dynamics Proteomes 4 (4), art. 34 (2016).
2231.	36.	Brereton, N. J. Sample Preparation for X-ray Micro-computed Tomography of Woody Plant Material and Associated Xylem Visualisation Techniques Bio-protocol 6 (6), e1767 (2016).
2232.	37.	Eltantawy, A.A. Key factors involved in stress - induced microspore embryogenesis in barley and rapeseed: DNA methylation, arabinogalactan proteins and auxin Tesis Doctoral, Universidad Complutense de Madrid (2016).
2233.	38.	Jiao, J., Mizukami, A.G., Sankaranarayanan, S., Yamguchi, J., Itami, K., Higashiyawma, T. Structure-activity relation of AMOR sugar molecule that activates pollen-tubes for ovular guidance Plant Physiology, 173 (1), 354-363 (2017).
2234.	39.	da Costa, M.L., Lopes, A.L., Amorim, M.I., Coimbra, S. Immunolocalization of AGPs and pectins in <i>Quercus suber</i> gametophytic structures Methods in Molecular Biology, 1669, 117-137 (2017).
2235.	40.	Ma, Y., Yan, C., Li, H., Wu, W., Liu, Y., Wang, Y., Chen, Q., Ma, H. Bioinformatics prediction and evolution analysis of arabinogalactan proteins in the plant kingdom Frontiers in Plant Science, 8, art. 66, (2017).
2236.	41.	Ihsan, M.Z., Ahmad, S.J.N., Shah, Z.H., Rehman, H.M., Aslam, Z., Ahuja, I., Bones, A.M.,

		Ahmad, J.N. Gene mining for proline based signaling proteins in cell wall of Arabidopsis thaliana Frontiers in Plant Science, 8, art. 233, (2017).
2237.	42.	Qin, L.-X., Chen, Y., Zeng, W., Li, Y., Gao, L., Li, D.-D., Bacic, A., Xu, W.-L., Li, X.-B. The cotton β -galactosyltransferase 1 (GalT1) that galactosylates arabinogalactan proteins participates in controlling fiber development Plant Journal, 89 (5), 957-971 (2017).
2238.	43.	Johnson, K.L., Cassin, A.M., Lonsdale, A., Wong, G.K.-S., Soltis, D.E., Miles, N.W., Melkonian, M., Melkonian, B., Deyholos, M.K., Leebens-Mack, J., Rothfels, C.J., Stevenson, D.W., Graham, S.W., Wang, X., Wu, S., Pires, J.C., Edger, P.P., Carpenter, E.J., Bacic, A., Doblin, M.S., Schultz, C.J. Insights into the evolution of hydroxyproline-rich glycoproteins from 1000 plant transcriptomes Plant Physiology, 174 (2), 904-921 (2017).
2239.	44.	Zahid, A., Despres, J., Benard, M., Nguema-Ona, E., Leprince, J., Vaudry, D., Rihouey, C., Vicré-Gibouin, M., Driouich, A., Follet-Gueye, M.-L. Arabinogalactan Proteins From Baobab and Acacia Seeds Influence Innate Immunity of Human Keratinocytes In Vitro Journal of Cellular Physiology, 232 (9), 2558-2568 (2017).
2240.	45.	Carlson, C.H., Choi, Y., Chan, A.P., Serapiglia, M.J., Town, C.D., Smart, L.B. Dominance and sexual dimorphism pervade the Salix purpurea L. Transcriptome Genome Biology and Evolution, 9 (9), 2377-2394 (2017).
2241.	46.	Liu, X. Bioinformatic Identification and Analysis of Hydroxyproline-rich Glycoproteins in Plants Doctor of Philosophy, Ohio University (2017).
2242.	47.	Braünlich, P.M., Inngjerdingen, K.T., Inngjerdingen, M., Johnson, Q., Paulsen, B.S., Mabusela, W. Polysaccharides from the South African medicinal plant Artemisia afra: Structure and activity studies Fitoterapia, 124, 182-187 (2018).
2243.	48.	Ferreira, S.S., Passos, C.P., Cepeda, M.R., Lopes, G.R., Teixeira-Coelho, M., Madureira, P., Nunes, F.M., Vilanova, M., Coimbra, M.A. Structural polymeric features that contribute to in vitro immunostimulatory activity of instant coffee Food Chemistry, 242, 548-554 (2018).
2244.	49.	Su, S., Higashiyama, T. Arabinogalactan proteins and their sugar chains: functions in plant reproduction, research methods, and biosynthesis Plant Reproduction, 31 (1), 67-75 (2018).
2245.	50.	Cagnola, J.I., Dumont de Chassart, G.J., Ibarra, S.E., Chimenti, C., Ricardi, M.M., Delzer, B., Ghiglione, H., Zhu, T., Otegui, M.E., Estevez, J.M., Casal, J.J. Reduced expression of selected FASCICLIN-LIKE ARABINOGALACTAN PROTEIN genes associates with the abortion of kernels in field crops of Zea mays (maize) and of Arabidopsis seeds Plant Cell and Environment, 41 (3), 661-674 (2018).
2246.	51.	Sanchez, C., Nigen, M., Mejia Tamayo, V., Doco, T., Williams, P., Amine, C., Renard, D. Acacia gum: History of the future Food Hydrocolloids, 78, 140-160 (2018).
2247.	52.	Seifert, G.J. Fascinating Fasciclins: A Surprisingly Widespread Family of Proteins that Mediate Interactions between the Cell Exterior and the Cell Surface International Journal of Molecular Sciences, 19, art. 1628, (2018).
2248.	53.	Cartmell, A., Muñoz-Muñoz, J., Briggs, J.A., Ndeh, D.A., Lowe, E.C., Baslé, A., Terrapon, N., Stott, K., Heunis, T., Gray, J., Yu, L., Dupree, P., Fernandes, P.Z., Shah, S., Williams, S.J., Labourel, A., Trost, M., Henrissat, B., Gilbert, H.J. A surface endogalactanase in Bacteroides thetaiotaomicron confers keystone status for

		arabinogalactan degradation Nature Microbiology, 3 (11), 1314-1326 (2018).
2249.	54.	Zhang, N., Wright, T., Caraway, P., Xu, J. Enhanced secretion of human α 1-antitrypsin expressed with a novel glycosylation module in tobacco BY-2 cell culture Bioengineered, 10 (1), 87-97 (2019).
2250.	55.	Leszczuk, A., Chylinska, M., Zdunek, A. Distribution of arabinogalactan proteins and pectins in the cells of apple (<i>malus x domestica</i>) fruit during post-harvest storage Annals of Botany, 123 (1), 47-55 (2019).
2251.	56.	Zhao, C., Zayed, O., Zeng, F., Liu, C., Zhang, L., Zhu, P., Hsu, C.-C., Tuncil, Y.E., Tao, W.A., Carpita, N.C., Zhu, J.-K. Arabinose biosynthesis is critical for salt stress tolerance in Arabidopsis New Phytologist, 224 (1), 274-290 (2019).
2252.	57.	Dehors, J., Mareck, A., Kiefer-Meyer, M.-C., Menu-Bouaouiche, L., Lehner, A., Mollet, J.-C. Evolution of cell wall polymers in tip-growing land plant gametophytes: Composition, distribution, functional aspects and their remodeling Frontiers in Plant Science, 10, art. 441 (2019).
2253.	58.	Lin, D., Lopez-Sanchez, P., Gidley, M.J. Interactions of arabinogalactans with bacterial cellulose during its synthesis: Structure and physical properties Food Hydrocolloids, 96, 644-652 (2019).
2254.	59.	Leszczuk, A., Pieczywek, P.M., Gryta, A., Frac, M., Zdunek, A. Immunocytochemical studies on the distribution of arabinogalactan proteins (AGPs) as a response to fungal infection in <i>Malus x domestica</i> fruit Scientific Reports, 9 (1), art. 17428 (2019).
2255.	60.	Tang, S., Wang, T., Huang, C., Lai, C., Fan, Y., Yong, Q. Arabinogalactans from <i>Larix principis-rupprechtii</i> : An investigation into the structure-function contribution of side-chain structures Carbohydrate Polymers, 227, art. 115354 (2020).
2256.	61.	Carreras, A., Bernard, S., Durambur, G., Gügi, B., Loutelier, C., Pawlak, B., Boulogne, I., Vicré, M., Driouich, A., Goffner, D., Follet-Gueye, M.-L. In vitro characterization of root extracellular trap and exudates of three Sahelian woody plant species Planta, 251 (1), art. 19 (2020).
2257.	62.	Nibbering, P., Petersen, B.L., Motawia, M.S., Jørgensen, B., Ulvskov, P., Niittylä, T. Golgi-localized exo- β 1,3-galactosidases involved in AGP modification and root cell 2expansion in Arabidopsis BioRxiv, doi.org/10.1101/2020.02.13.947820 (2020).
2258.	63.	Borassi, C., Gloazzo Dorosz, J., Ricardi, M.M., Carignani Sardoy, M., Pol Fachin, L., Marzol, E., Mangano, S., Rodríguez García, D.R., Martínez Pacheco, J., del Carmen Rondón Guerrero, Y., Velasquez, S.M., Villavicencio, B., Cancia, M., Seifert, G., Verli, H. and Estevez, J.M. A cell surface arabinogalactan - peptide influences root hair cell fate New Phytologist, 227 (3), 732-743 (2020).
2259.	64.	Zhang, Y., Held, M.A., Showalter, A.M. Elucidating the roles of three β -glucuronosyltransferases (GLCATs) acting on arabinogalactan-proteins using a CRISPR-Cas9 multiplexing approach in Arabidopsis BMC Plant Biology, 20 (1), art. no. 221 (2020).
2260.	65.	Veenhof, R.J., Popper, Z.A. Localization, Extraction, and Quantification of Plant and Algal Arabinogalactan Proteins Methods in Molecular Biology, 2149, 429-441 (2020).
2261.	66.	Seifert, G.J. On the Potential Function of Type II Arabinogalactan O-Glycosylation in Regulating the Fate of Plant Secretory Proteins Frontiers in Plant Science, 11, art. no. 563735 (2020).

2262.	67.	Nibbering, P. The role and synthesis of β 1,3-galactans in plant cell wall formation Dissertation Swedish University of Agricultural Sciences, Sweden (2020).
2263.	68.	Liang, R., You, L., Dong, F., Zhao, X., Zhao, J. Identification of Hydroxyproline-Containing Proteins and Hydroxylation of Proline Residues in Rice Frontiers in Plant Science, 11, art. no. 1207 (2020).
2264.	69.	Leszczuk, A., Kalaitzis, P., Blazakis, K.N., Zdunek, A. The role of arabinogalactan proteins (AGPs) in fruit ripening—a review Horticulture Research, 7 (1), art. no. 176 (2020).
2265.	70.	Leszczuk, A., Cybulska, J., Skrzypek, T., Zdunek, A. Properties of arabinogalactan proteins (Agps) in apple (malus × domestica) fruit at different stages of ripening Biology, 9 (8), art. no. 225, 1-12 (2020).
2266.	71.	Leszczuk, A., Zając, A., Kurzyna-Szklarek, M., Cybulska, J., Zdunek, A. Investigations of changes in the arabinogalactan proteins (AGPs) structure, size and composition during the fruit ripening process Scientific Reports, 10, art. no. 20621 (2020).
2267.	72.	Lara-Mondragón, C.M., MacAlister, C.A. Partial purification and immunodetection of cell surface glycoproteins from plants Methods in Cell Biology, 160, 215-234 (2020).
2268.	73.	Hoshing, R., Saladino, M., Kuhn, H., Caianiello, D., Lusi, R. F., Basu, Amit. An Improved Protocol for the Synthesis and Purification of Yariv Reagents The Journal of Organic Chemistry, 85 (25), 16236-16242 (2020).
2269.	74.	Hoshing, R., Leeber III, B. W., Kuhn, H., Caianiello, D., Dale, B., Saladino, M., Lusi, R., Palaychuk, N., Weingarten, S., Basu, A. The chirality of Yariv reagent aggregates correlates with AGP-binding ability chemRxiv, doi: 10.26434/chemrxiv.13154261.v1 (2020).
2270.	75.	Castilleux, R., Ropitiaux, M., Manasfi, Y., Bernard, S., Vické-Gibouin, M., Driouich, A. Contributions to Arabinogalactan Protein Analysis Methods in Molecular Biology, 2149, 383-402 (2020).
2271.	76.	Cassim, A. M., Navon, Y., Gao, Y., Decossas, M., Fouillen, L., Grelard, A., Nagano, M., Lambert, O., Bahammou, D., Van Delft, P., Maneta-Peyret, L., Simon-Plas, F., Heux, L., Fragneto, G., Mortimer, J. C., Deleu, M., Lins, L., Mongrand, S. Purification, characterization and influence on membrane properties of the plant-specific sphingolipids GIPC bioRxiv, doi: 10.1101/2020.10.01.313304 (2020).
2272.	77.	Nibbering, P., Petersen, B.L., Motawia, M.S., Jørgensen, B., Ulvskov, P., Niittylä, T. Golgi-localized exo- β 1,3-galactosidases involved in cell expansion and root growth in Arabidopsis, Journal of Biological Chemistry, 295 (31), 10581-10592 (2020).
2273.	78.	Abedi, T., Castilleux, R., Nibbering, P., Niittylä, T. The Spatio-Temporal Distribution of Cell Wall-Associated Glycoproteins During Wood Formation in Populus Frontiers in Plant Science, 11, art. no. 611607 (2020).
2274.	79.	Zhang, Y., Held, M.A., Kaur, D., Showalter, A.M. CRISPR-Cas9 multiplex genome editing of the hydroxyproline-O-galactosyltransferase gene family alters arabinogalactan-protein glycosylation and function in Arabidopsis BMC Plant Biology, 21 (1), art. no. 16 (2021).
2275.	80.	Strasser, R., Seifert, G., Doblin, M.S., Johnson, K.L., Ruprecht, C., Pfrengle, F., Bacic, A., Estevez, J.M. Cracking the “Sugar Code”: A Snapshot of N- and O-Glycosylation Pathways and Functions in Plants Cells Frontiers in Plant Science, 12, art. no. 640919 (2021).
2276.	81.	Narciso, J.O., Zeng, W., Ford, K., Lampugnani, E.R., Humphries, J., Austarheim, I., van de Meene, A., Antony, B., Doblin, M.S.

		Biochemical and Functional Characterization of GALT8, an Arabidopsis GT31 β -(1,3)-Galactosyltransferase That Influences Seedling Development Frontiers in Plant Science, 12, art. no. 678564 (2021).
2277.	82.	Xuan, L., Zhang, J., Lu, W., Gluza, P., Ebert, B., Kotake, T., Lu, M., Zhang, Y., Clausen, M.H., Johnson, K.L., Doblin, M.S., Heazlewood, J.L., Bacic, A., Song, L., Zeng, W. A pipeline towards the biochemical characterization of the arabidopsis gt14 family International Journal of Molecular Sciences, 22 (3), art. no. 1360 (2021).
2278.	83.	Simonović, A.D., Trifunović-Momčilov, M.M., Filipović, B.K., Marković, M.P., Bogdanović, M.D., Subotic, A.R. Somatic embryogenesis in centaurium erythraea rafn-current status and perspectives: A review Plants, 10 (1), art. no. 70 (2021).
2279.	84.	Ajayi, O.O., Held, M.A., Showalter, A.M. Three β -Glucuronosyltransferase Genes Involved in Arabinogalactan Biosynthesis Function in Arabidopsis Growth and Development Plants, 10 (6), art. no. 1172 (2021).
2280.	85.	Přerovská, T., Henke, S., Bleha, R., Spiwok, V., Gillarová, S., Yvin, J.-C., Ferrières, V., Nguema-Ona, E., Lipovová, P. Arabinogalactan - like Glycoproteins from Ulva lactuca (Chlorophyta) Show Unique Features Compared to Land Plants AGPs Journal of Phycology, 57 (2), 619-635 (2021).
2281.	86.	Ma, Y., Johnson, K. Arabinogalactan-proteins WikiJournal of Science, 4 (1), 1-9 (2021).
2282.	87.	Mishra, P., Singh, A., Verma, A.K., Singh, R., Roy, S. MicroRNA775 targets a β -(1,3)-galactosyltransferase to regulate growth and development in Arabidopsis thaliana bioRxiv doi: 2021.01.28.428559 (2021).
2283.	88.	Nibbering, P., Castilleux, R., Wingsle, G., Niittylä, T. Golgi-localized GALT7 and GALT8 participate in cellulose biosynthesis bioRxiv doi: 2021.04.21.440809 (2021).
2284.	89.	Přerovská, T., Pavlů, A., Hancharyk, D., Rodionova, A., Vavříková, A., Spiwok, V. Structural Basis of the Function of Yariv Reagent—An Important Tool to Study Arabinogalactan Proteins Frontiers in Molecular Biosciences, 8, art. no. 682858 (2021).
2285.	90.	Cassim, A.M., Navon, Y., Gao, Y., Decossas, M., Fouillen, L., Grélard, A., Nagano, M., Lambert, O., Bahammou, D., Van Delft, P., Maneta-Peyret, L., Simon-Plas, F., Heux, L., Jean, B., Fragneto, G., Mortimer, J.C., Deleu, M., Lins, L., Mongrand, S. Biophysical analysis of the plant-specific GIPC sphingolipids reveals multiple modes of membrane regulation, Journal of Biological Chemistry, 296, art. no. 100602 (2021).
2286.	91.	Saeidy, S., Petera, B., Pierre, G., Fenoradoso, T.A., Djomdi, D., Michaud, P., Delattre, C. Plants arabinogalactans: From structures to physico-chemical and biological properties Biotechnology Advances, doi: 10.1016/j.biotechadv.2021.107771 (2021).
C.61. Description of the tautomerism in some azonaphthols. S.Kawauchi & L.Antonov, <i>Journal of Physical Organic Chemistry</i> , 26, 643-652 (2013)		
2287.	1.	El-Amry, A., Elroby, S.A., Kühn, O., Hilal, R.H. Toward understanding tautomeric switching in hydroxynaphthaldehydes: Characterization of electronic absorption spectra Journal of Theoretical and Computational Chemistry, 14 (5), art. 1550033 (2015).
2288.	2.	Ferreira, G.R., de Oliveira, L.F.C. Synthesis, spectroscopic and structural studies of new azo dyes metal chelates derivated from 1-phenil-azo-2-naphthol Journal of Molecular Structure, 1146, 50-56 (2017).
2289.	3.	Watson, M.A., Yu, H.S., Bochevarov, A.D. Generation of Tautomers Using Micro-p K _{inf} 's

		Journal of Chemical Information and Modeling, 59 (6), 2672-2689 (2019).
2290.	4.	Erick, T.K., Kiplimo, J., Matasyoh, J. Two New Aliphatic Alkenol Geometric Isomers and a Phenolic Derivate from Endophytic Fungus Diaporthesp. Host to Syzygium cordatum (Myrtaceae) Science Letters, 7 (3), 108-118 (2019).
C.62. Controlled shift in the tautomeric equilibrium of 4-((phenylimino)methyl)naphthalen-1-ol. V.Deneva, Y.Manolova, L.Lubenov, V.Kuteva, F.S.Kamounah, R.Nikolova, B.Shivachev, <u>L.Antonov</u> , <i>Journal of Molecular Structure</i> , 1036 , 267-273 (2013)		
2291.	1.	Baghdouche, A.K., Mosbah, S., Belhocine, Y., Bencharif, L. Zwitterionic 1-((E)-[(2-methylphenyl)-iminiumyl]methyl)naphthalen-2-olate Acta Crystallographica Section E: Structure Reports Online, 70 (6), o676 (2014).
2292.	2.	Lan, H., Li, Q., Li, Y., Xiao, S., Li, Y., Yan, X., Yuan, S., Zhu, P. Solvent-controlled tautomerism of malononitrile-naphthalimide via intramolecular proton transfer Dyes and Pigments, 155, 121-125 (2018).
2293.	3.	İbişoğlu, H., Eçik, E.T., Çiftçi, G.Y. Syntheses and characterizations of cyclotriphosphazenes containing 4-oxy-1-naphthaldehyde group Turkish Journal of Chemistry, 42, 1174-1183 (2018).
2294.	4.	Zhang, J., Qi, S., Zhang, C., Fan, Z., Ding, Q., Mao, S., Dong, Z. Controlling Keto-Enol Tautomerism of Ureidopyrimidinone to Generate a Single-Quadruple AADD-DDAA Dimeric Array Organic Letters, 22 (18), 7305-7309 (2020).
C.63. Tautomerism of 4,4'-dihydroxy-1,1'-naphthalaldazine studied by experimental and theoretical methods. A.Ahmedova, S.Simeonov, V.Kurteva & <u>L.Antonov</u> , <i>Chemistry Central Journal</i> , 7 , art. 29 (2013)		
2295.	1.	Fletcher, K., Dreuw, A., Faraji, S. Potential energy surfaces and approximate kinetic model for the excited state dynamics of Pigment Yellow 101 Computational and Theoretical Chemistry, 1040-1041, 177-185 (2014).
2296.	2.	Abbas, B., Salman, Y.T. Study of photo-induced dichroism in Sudan III doped in poly(methyl methacrylate) thin films Acta Physica Polonica A, 127 (3), 780-786 (2015).
2297.	3.	George, L., Kunhikannan, A.K., Illathvalappil, R., Ottoor, D., Kurungot, S., Devi, R.N. Understanding the electron transfer process in ZnO-naphthol azobenzoic acid composites from photophysical characterisation Physical Chemistry Chemical Physics, 18 (32), 22179-22187 (2016).
2298.	4.	Fletcher, K. Quantum Chemical Study of Excited State Proton Transfer in Solvated Organic Molecules Dissertation, Ruprecht-Karls-Universität Heidelberg (2016).
2299.	5.	Shinde, S., & Sekar, N. Comparative studies of excited state intramolecular proton transfer (ESIPT) and azo-hydrazone tautomerism in naphthalene-based fluorescent acid azo dyes by computational study Physical Sciences Reviews, doi: 10.1515/psr-2019-0130 (2021).
C.64. Stereochemistry of Disilanylene-Containing Cyclic Compounds. Thermal Reactions of cis- and trans-3,4-Benzo-1,2-diisopropyl-1,2-dimethyl-1,2-disilacyclobut-3-ene. A.Naka, J.Ikadaï, J.Sakata, M.Ishikawa, Y.Hayashi, <u>L.Antonov</u> , S.Kawauchi & T.Yamabe; <i>Organometallics</i> , 32 , 6476-6487 (2013)		
C.65. Controlled tautomerism – switching caused by an “underground” anionic effect. <u>L.Antonov</u> , V.Deneva, V.Kurteva, D.Nedeltcheva, A.Crochet & K.M.Fromm; <i>RSC Advances</i> , 3 , 25410-25416 (2013)		
2300.	1.	Wagner-Wysiecka, E., Szarmach, M., Chojnacki, J., Łukasik, N., Luboch, E. Cation sensing by diphenyl-azobenzocrowns Journal of Photochemistry and Photobiology A: Chemistry, 333, 220-232 (2017).
2301.	2.	Irshaidat, T.

		Toward exploring novel organic materials: MP4-DFT properties of 4-amino-3-iminoindene Molecules, 22 (5), art. 720 (2017).
2302.	3.	Kovalchuk, A.I., Kobzar, Y.L., Tkachenko, I.M., Tolstov, A.L., Shekera, O.V., Shevchenko, V.V. Synthesis and optical properties of new isomeric core-fluorinated azo-containing bis(2-hydroxybenzaldehyde)s Journal of Molecular Structure, 1173, 671-678 (2018).
2303.	4.	Takele, W.M. Molecular Properties in an Optical Microcavity: From Ensembles to Single Molecules Doctoral Thesis, Institute of Physical Chemistry (PAS) and University of Tuebingen, 101 (2021).
C.66. Phenol–Quinone Tautomerism in (Arylazo)naphthols and the Analogous Schiff Bases: Benchmark Calculations. S.T.Ali, L.Antonov & W.M.F.Fabian; <i>Journal of Physical Chemistry</i> , 118A , 778-789 (2014)		
2304.	1.	Liu, X., Zhao, X., Lu, M. Novel polymer supported iminopyridylphosphine palladium (//) complexes: An efficient catalyst for Suzuki-Miyaura and Heck cross-coupling reactions Journal of Organometallic Chemistry, 768, 23-27 (2014).
2305.	2.	Nagy, P.I. Competing intramolecular vs. Intermolecular hydrogen bonds in solution International Journal of Molecular Sciences, 15 (11), 19562-19633 (2014).
2306.	3.	Sun, S., Zhang, K., Zhang, H. Theoretical study on the degradation mechanism of carbamate pesticides with OH radicals Theoretical Chemistry Accounts, 134 (3), 15 (2015).
2307.	4.	Babür, B., Seferoğlu, N., Aktan, E., Hökelek, T., Şahin, E., Seferoğlu, Z. Phenylazindole dyes 3: Determination of azo-hydrazone tautomers of new phenylazindole dyes in solution and solid state Journal of Molecular Structure, 1081, 175-181 (2015).
2308.	5.	Kozlecki, T., Tolstoy, P.M., Kwocz, A., Vovk, M.A., Kochel, A., Polowczyk, I., Tretyakov, P.Y., Filarowski, A. Conformational state of β -hydroxynaphthylamides: Barriers for the rotation of the amide group around CN bond and dynamics of the morpholine ring Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 149, 254-262 (2015).
2309.	6.	Tahir, M.N., Shafiq, Z., Shad, H.A., Rehman, Z.-U., Karim, A., Naseer, M.M. Polymorphism in a sulfamethoxazole derivative: Coexistence of five polymorphs in methanol at room temperature Crystal Growth and Design, 15 (10), 4750-4755 (2015).
2310.	7.	Sun, S., Cheng, S., Zhang, H. Mechanism and kinetic study on the degradation of unsaturated esters initiated by OH radical Theoretical Chemistry Accounts, 135 (6), art. 154, (2016).
2311.	8.	Nagy, P. Theoretical Consideration of In-Solution Tautomeric Equilibria in Relation to Drug Design Tautomerism Concepts and Applications in Science and Technology (L. Antonov, editor), Wiley-VCH, 113-146 (2016).
2312.	9.	Cheng, S., Sun, S., Zhang, H. Theoretical study on the reaction mechanism of carbaryl with NO ₃ radical Theoretical Chemistry Accounts, 136 (5), art. 60, (2017).
2313.	10.	Zutterman, F., Louant, O., Mercier, G., Leyssens, T., Champagne, B. Predicting Keto-Enol Equilibrium from Combining UV/Visible Absorption Spectroscopy with Quantum Chemical Calculations of Vibronic Structures for Many Excited States. A Case Study on Salicylideneanilines Journal of Physical Chemistry A, 122 (24), 5370-5374 (2018).
2314.	11.	Devika Bhai, R., Girija, C.R., Ramakrishna Reddy, K. Schiffbases derived from 2-hydroxy and 2-methoxy naphthaldehyde: exploration of in silico docking, DNA cleavage, antibacterial activities and SAR

		International Journal of Pharmaceutical Sciences and Research, 9 (1), 346-353 (2018).
2315.	12.	Matczak, P., Młostoń, G., Hamera-Faldyga, R., Görls, H., Weigand, W. Structure of diferrocenyl thioketone: From molecule to crystal Molecules, 24 (21), art. no. 3950 (2019).
2316.	13.	Marrero-Carballo, R., Tun-Rosado, F., Mena-Rejón, G.J., Cáceres-Castillo, D., Barroso, J., Murillo, F., Merino, G., Quijano-Quiñones, R.F. The base-catalyzed keto-enol tautomerism of chrysophanol anthrone. A DFT investigation of the base-catalyzed reaction Molecular Simulation, 45 (9), 716-723 (2019).
2317.	14.	Cedillo, A., Kvedaravičiūtė, S., Aidas, K. Prediction of the tautomer stability and acidity of phenacylpyridines in aqueous solution Theoretical Chemistry Accounts, 139 (3), art. 52 (2020).
2318.	15.	Cao, C.-T., Li, L., Cao, C., Liu, J. The effect of intramolecular hydrogen bond on the ultraviolet absorption of bi-aryl Schiff bases Journal of Physical Organic Chemistry, 34 (4), art. no. e4164 (2021).
C.67. 1,1',1''-(2,4,6-Trihydroxybenzene-1,3,5-triyl)triethanone tautomerism revisited. P.E.Hansen, F.S.Kamounah, D.Zhiryakova, Y.Manolova & <u>L.Antonov</u> ; <i>Tetrahedron Letters</i> , 55 , 354-357 (2014)		
2319.	1.	Pyta, K., Przybylski, P., Klich, K., Schilf, W., Kamieński, B., Grech, E., Kołodziej, B., Szady-Chelmieńska, A., Brzezinski, B. Impact of metal cation complexation and protonation on tautomeric and resonance forms of the oxaalkyl Schiff bases derived from 5-substituted salicylaldehyde and 2-hydroxy-1-naphthaldehyde Structural Chemistry, 25 (6), 1733-1746 (2014).
2320.	2.	Tupchiangmai, W., Choksakulporn, S., Tewtrakul, S., Pianwanit, S., Sritana-Anant, Y. Use of a hexasubstituted benzene scaffold in the development of multivalent HIV-1 integrase inhibitors Chemical and Pharmaceutical Bulletin, 62 (8), 754-763 (2014).
2321.	3.	Choksakulporn, S., Punkvang, A., Sritana-anant, Y. Synthesis and amino acids complexation of tripodal hexasubstituted benzene chiral receptors Journal of Molecular Structure, 1082, 97-102 (2015).
2322.	4.	Kleinpeter, E., Koch, A. Characterization and quantification of quasi-aromaticity by spatial magnetic properties (TSNMRS) Tetrahedron, 71 (33), 5275-5284 (2015).
2323.	5.	Murray, B.A. Reactions of Aldehydes and Ketones and their Derivatives Organic Reaction Mechanisms 2014: An Annual Survey Covering the Literature Dated January to December 2014, Wiley (2017).
2324.	6.	Watson, M.A., Yu, H.S., Bochevarov, A.D. Generation of Tautomers Using Micro-p K _{inf} 's Journal of Chemical Information and Modeling, 59 (6), 2672-2689 (2019).
2325.	7.	Murray, B.A. Reactions of Aldehydes and Ketones and their Derivatives Organic Reaction Mechanisms 2016: An Annual Survey Covering the Literature Dated January to December 2014, 1-85, Wiley, USA (2020).
C.68. Hybrid liposomal polyoxyethylated calyx[4]arene system as a drug delivery platform for curcumin. E.Drakalska, D.Momekova, Y.Manolova, D.Budurova, G.Momekov, M.Genova, <u>L.Antonov</u> , N.Lambova & S.Rangelov; <i>International Journal of Pharmaceutics</i> , 472 , 165-174 (2014)		
2326.	1.	Yadav, D., Kumar, N. Nanonization of curcumin by antisolvent precipitation: Process development, characterization, freeze drying and stability performance International Journal of Pharmaceutics, 477 (1-2), 564-577 (2014).
2327.	2.	Chao, M., Li, W., Wang, X.

		Evaluation of calixarenes as antioxidants in complex lithium grease Chemistry Letters, 44 (3), 396-398 (2015).
2328.	3.	Patra, S., Roy, E., Karfa, P., Kumar, S., Madhuri, R., Sharma, P.K. Dual-responsive polymer coated superparamagnetic nanoparticle for targeted drug delivery and hyperthermia treatment ACS Applied Materials and Interfaces, 7 (17), 9235-9246 (2015).
2329.	4.	Zhou, Y., Li, H., Yang, Y.-W. Controlled drug delivery systems based on calixarenes Chinese Chemical Letters, 26 (7), 825-828 (2015).
2330.	5.	Ahmad, S. Current Status and Future Prospects of Application Specific Engineered Nanocurcumin Compounds International Journal of Pharmaceutical Sciences and Nanotechnology, 9 (5), 3391-3451 (2016).
2331.	6.	Sahandi Zangabad, P., Karimi, M., Mehdizadeh, F., Malekzad, H., Ghasemi, A., Bahrami, S., Zare, H., Moghoofei, M., Hekmatmanesh, A., Hamblin, M.R. Nanocaged platforms: Modification, drug delivery and nanotoxicity. Opening synthetic cages to release the tiger Nanoscale, 9 (4), 1356-1392 (2017).
2332.	7.	Feng, R., Deng, P., Song, Z., Chu, W., Zhu, W., Teng, F., Zhou, F. Glycyrrhetic acid-modified PEG-PCL copolymeric micelles for the delivery of curcumin Reactive and Functional Polymers, 111, 30-37 (2017).
2333.	8.	Ermakova, A.M., Morozova, J.E., Shalaeva, Y.V., Syakaev, V.V., Gubaidullin, A.T., Voloshina, A.D., Zobov, V.V., Nizameev, I.R., Bazanova, O.B., Antipin, I.S., Konovalov, A.I. Nanoconjugates of a calixresorcinarene derivative with methoxy poly(ethylene glycol) fragments for drug encapsulation Beilstein Journal of Nanotechnology, 9 (1), 2057-2070 (2018).
2334.	9.	Santoso, P., Anwar, C., Jumina, J., Siswanta, D., Suharso, S., Ohto, K. Synthesis of a Novel Calix[4]resorcinarene-Chitosan Hybrid Oriental Journal of Chemistry, 34 (1), 30-37 (2018).
2335.	10.	Pisagatti, I., Barbera, L., Gattuso, G., Patanè, S., Parisi, M.F., Notti, A. Novel PEGylated calix[5]arenes as carriers for Rose Bengal Supramolecular Chemistry, 30 (8), 658-663 (2018).
2336.	11.	Santoso, P., Anwar, C., Jumina, Siswanta, D., Suharso, Ohto, K. Adsorption study of Pb(II) onto a novel calix[4]resorcinarene-chitosan hybrid Desalination and Water Treatment, 143, 268-273 (2019).
2337.	12.	Oguz, M., Bhatti, A.A., Dogan, B., Karakurt, S., Durdagi, S., Yilmaz, M. Formation of the inclusion complex of water soluble fluorescent calix[4]arene and naringenin: solubility, cytotoxic effect and molecular modeling studies Journal of Biomolecular Structure and Dynamics, 38 (13), 3801-3813 (2020).
2338.	13.	Zhou, Z.-Y., Yu, X., Liu, H., Wang, M. Study progress of supramolecular drug delivery system loading traditional Chinese medicine/natural anti-tumor products [载中药/天然抗肿瘤药物的超分子药物传递体系研究进展] Zhongguo Zhongyao Zazhi, 45 (7), 1611-1619 (2020).
2339.	14.	Marcos, F.J.O. Uso de compuestos macrocíclicos derivados de calixarenos como nanotransportadores de fármacos Dissertation, Universidad de Sevilla, Spain (2020).
2340.	15.	Kirila, T., Smirnova, A., Razina, A., Tenkovtsev, A., Filippov, A. Synthesis and conformational characteristics of thermosensitive star-shaped six-arm polypeptoids Polymers, 12 (4), art. no. 800 (2020).
2341.	16.	Kirila, T., Smirnova, A., Aseyev, V., Tenkovtsev, A., Tenhu, H., Filippov, A. Self-organization in dilute aqueous solutions of thermoresponsive star-shaped six-arm

		poly-2-alkyl-2-oxazines and poly-2-alkyl-2-oxazolines Polymers, 13 (9), art. no. 1429 (2021).
2342.	17.	Guo, F., Xia, T., Xiao, P., Wang, Q., Deng, Z., Zhang, W., Diao, G. A supramolecular complex of hydrazide-pillar[5]arene and bisdemethoxycurcumin with potential anti-cancer activity Bioorganic Chemistry, 110, art. no. 104764 (2021).
2343.	18.	Pan, Y.-C., Hu, X.-Y., Guo, D.-S. Biomedical Applications of Calixarenes: State of the Art and Perspectives Angewandte Chemie - International Edition, 60 (6), 2768-2794 (2021).
C.69. The effect of water on the curcumin tautomerism: a quantitative approach. Y.Manolova, V.Deneva, L.Antonov, E.Drakalska, D.Momekova & N.Lambo; <i>Spectrochimica Acta</i> , 132A , 815-820 (2014)		
2344.	1.	Tizabi, Y., Hurley, L.L., Qualls, Z., Akinfiresoye, L. Relevance of the anti-inflammatory properties of curcumin in neurodegenerative diseases and depression Molecules, 19 (12), 20864-208 (2014).
2345.	2.	Ishimura, H., Kadoya, R., Suzuki, T., Murakawa, T., Shulga, S., Kurita, N. Specific interactions between amyloid- β peptide and curcuminderivatives: Ab initio molecular simulations Chemical Physics Letters, 633 (1), 139-145 (2015).
2346.	3.	González-Albadalejo, J., Sanz, D., Claramunt, R.M., Lavandera, J.L., Alkorta, I., Elguero, J. Curcumin and curcuminoids: Chemistry, structural studies and biological properties [Curcuminay curcuminoides: Química, estudios estructurales y propiedades biológicas] Anales de la Real Academia Nacional de Farmacia, 81 (4), 278-310 (2015).
2347.	4.	Ajaj, I., Markovski, J., Rančić, M., Mijin, D., Milčić, M., Jovanović, M., Marinković, A. Solvent and structural effects in tautomeric 2(6)-hydroxy-4-methyl-6(2)-oxo-1-(substituted phenyl)-1,2(1,6)-dihydropyridine-3-carbonitriles: UV, NMR and quantum chemical study Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 150, art. 13723, 575-585 (2015).
2348.	5.	Wyganowska-Swiatkowska, M., Jankun, J. Plasminogen activation system in oral cancer: Relevance in prognosis and therapy (Review) International Journal of Oncology, 47 (1), 16-24 (2015).
2349.	6.	Adewale, O.O., Brimson, J.M., Odunola, O.A., Gbadegesin, M.A., Owumi, S.E., Isidoro, C., Tencomnao, T. The Potential for Plant Derivatives against Acrylamide Neurotoxicity Phytotherapy Research, 29 (7), 978-985 (2015).
2350.	7.	Nieto, C.I., Cabildo, M.P., Cornago, M.P., Sanz, D., Claramunt, R.M., Alkorta, I., Elguero, J., García, J.A., López, A., Acuña-Castroviejo, D. Synthesis, structure and biological activity of 3(5)-trifluoromethyl-1H-pyrazoles derived from hemicurcuminoids Journal of Molecular Structure, 1100, art. 21710, 518-529 (2015).
2351.	8.	Kar, S., Konsam, S., Hore, G., Mitra, S., Biswas, S., Sinha, A., Jana, N., Banerjee, E. Therapeutic use of fisetin, curcumin, and mesoporous carbon nanoparticle loaded fisetin in bleomycin-induced idiopathic pulmonary fibrosis Biomedical Research and Therapy, 2 (04), 250-262(2015).
2352.	9.	Pawar, N., Rawat, K., Bohidar, H.B. Self-assembly of synthetic liposome-like curcumin nanoparticles RSC Advances, 6 (77), 73677-73682 (2016).
2353.	10.	Foti, M.C., Slavova-Kazakova, A., Rocco, C., Kancheva, V.D. Kinetics of curcumin oxidation by 2,2-diphenyl-1-picrylhydrazyl (DPPH): An interesting case of separated coupled proton-electron transfer Organic and Biomolecular Chemistry, 14 (35), 8331-8337 (2016).
2354.	11.	Banerjee, E.R. Idiopathic Lung Fibrosis Model for Drug Discovery Perspectives in Translational Research in Life Sciences and Biomedicine: Translational Outcomes Research in Life Sciences and Translational Medicine, 1, 13-31 (2016).

2355.	12.	Pulido-Moran, M., Moreno-Fernandez, J., Ramirez-Tortosa, C., Ramirez-Tortosa, M.C. Curcumin and health Molecules, 21 (3), art. 264 (2016).
2356.	13.	Zhu, J.-H., Zhao, X., Yang, J., Tan, Y.-T., Zhang, L., Liu, S.-P., Liu, Z.-F., Hu, X.-L. Selective colorimetric and fluorescent quenching determination of uranyl ion via its complexation with curcumin Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 159, 146-150 (2016).
2357.	14.	Carvalho, A.C., Gomes, A.C., Pereira-Wilson, C., Lima, C.F. Mechanisms of Action of Curcumin on Aging: Nutritional and Pharmacological Applications Molecular Basis of Nutrition and Aging: A Volume in the Molecular Nutrition Series, 491-511 (2016).
2358.	15.	Jankun, J., Wyganowska-Swiatkowska, M., Dettlaff, K., JelinSka, A., Surdacka, A., Watróbska-Swietlikowska, D., Skrzypczak-Jankun, E. Determining whether curcumin degradation/condensation is actually bioactivation (Review) International Journal of Molecular Medicine, 37 (5), 1151-1158 (2016).
2359.	16.	Zhang, W., Jiang, P., Chen, Y., Luo, P., Li, G., Zheng, B., Chen, W., Mao, Z., Gao, C. Suppressing the cytotoxicity of CuO nanoparticles by uptake of curcumin/BSA particles Nanoscale, 8 (18), 9572-9582 (2016).
2360.	17.	Xia, J., Wang, H., Zhang, Q.-M., Zheng, Z., Han, Z.-M. The therapeutic effect of curcumin in male albino rats and its putative mechanisms on cerebral microvascular flow Brain Research, 1642, 131-135 (2016).
2361.	18.	Anjomshoa, S., Namazian, M., Noorbala, M.R. The Effect of Solvent on Tautomerism, Acidity and Radical Stability of Curcumin and Its Derivatives Based on Thermodynamic Quantities Journal of Solution Chemistry, 45 (7), 1021-1030 (2016).
2362.	19.	Chang, X.-R., Wang, L., Li, J., Wu, D.-S. Analysis of anti-depressant potential of curcumin against depression induced male albino wistar rats Brain Research, 1642, 219-225 (2016).
2363.	20.	Zhang, L., Kong, X.-J., Wang, Z.-Q., Xu, F.-S., Zhu, Y.-T. A study on neuroprotective effects of curcumin on the diabetic rat brain Journal of Nutrition, Health and Aging, 20 (8), 835-840 (2016).
2364.	21.	Slabber, C.A., Grimmer, C.D., Robinson, R.S. Solution Conformations of Curcumin in DMSO Journal of Natural Products, 79 (10), 2726-2730 (2016).
2365.	22.	Singh, P.P., Devi, K.R., Devi, M.M., Thokchom, D.S., Sharma, G.J. Protection of low let radiation-induced DNA damage in rat bone marrow cells by free radical scavenger curcumin International Journal of Pharmaceutical Sciences and Research, 7 (3), 1168-1178 (2016).
2366.	23.	Kar, S., Biswas, S., Banerjee, E.R. Evaluating the ameliorative potential of plant flavonoids and their nanocomposites in bleomycin induced idiopathic pulmonary fibrosis Biomedical Research and Therapy, 3 (7), 707-722 (2016).
2367.	24.	Xiao-Liang Chen, X.-L., Liu, X.-R., Fang, Y.-X., Xu, L. Cardioprotective role of curcumin in myocardial ischemia-reperfusion of male albino rats International Journal of Clinical and Experimental Medicine, 9 (5), 7846-7854 (2016).
2368.	25.	Perko, T., Ravber, M., Knez, Ž., Škerget, M. Extraction of curcuminoids from turmeric (<i>Curcuma longa</i> L.) with subcritical water Technologica Acta, 9 (1), 29-34 (2016).
2369.	26.	Russo, V. Synthesis and Evaluation of new prodrug systems of the natural polyphenol Curcumin Ph.D. thesis, Università degli Studi di Padova (2016).
2370.	27.	Vilaça, H., Castro, T., Costa, F.M.G., Melle-Franco, M., Hilliou, L., Hamley, I.W., Castanheira,

		E.M.S., Martins, J.A., Ferreira, P.M.T. Self-assembled RGD dehydropeptide hydrogels for drug delivery applications Journal of Materials Chemistry B, 5 (43), 8607-8617 (2017).
2371.	28.	Dhir, A. Potential of Polyphenols in the Treatment of Major Depression: Focus on Molecular Aspects Neuroprotective Effects of Phytochemicals in Neurological Disorders, 265-282 (2017).
2372.	29.	Noroozi, J., Hassanpour-Ezatti, M., Alaei, H.A. Dendrosomal nanocurcumin prevents morphine self-administration behavior in rats despite CA1 damage Behavioural Pharmacology, 28 (8), 681-689 (2017).
2373.	30.	Khorshidi, A., Sadeghi, N. Application of trans-[ZrO(curcumin)2(H2O)]·H2O in coloration of cotton fibers Research on Chemical Intermediates, 43 (2), 1223-1233 (2017).
2374.	31.	Liu, Y.-F., Yang, C.-W., Liu, H., Sui, S.-G., Li, X.-D. Efficacy and therapeutic potential of curcumin against sepsis-induced chronic lung injury in male albino rats Journal of Nutrition, Health and Aging, 21 (3), 307-313 (2017).
2375.	32.	Fan, C.-D., Li, Y., Fu, X.-T., Wu, Q.-J., Hou, Y.-J., Yang, M.-F., Sun, J.-Y., Fu, X.-Y., Zheng, Z.-C., Sun, B.-L. Reversal of Beta-Amyloid-Induced Neurotoxicity in PC12 Cells by Curcumin, the Important Role of ROS-Mediated Signaling and ERK Pathway Cellular and Molecular Neurobiology, 37 (2), 211-222 (2017).
2376.	33.	Shityakov, S., Salmas, R.E., Durdagi, S., Roewer, N., Förster, C., Broscheit, J. Solubility profiles, hydration and desolvation of curcumin complexed with γ -cyclodextrin and hydroxypropyl- γ -cyclodextrin Journal of Molecular Structure, 1134, 91-98 (2017).
2377.	34.	Vuorinen, A., Engeli, R.T., Leugger, S., Bachmann, F., Akram, M., Atanasov, A.G., Waltenberger, B., Temml, V., Stuppner, H., Krenn, L., Ateba, S.B., Njamen, D., Davis, R.A., Odermatt, A., Schuster, D. Potential Antiosteoporotic Natural Product Lead Compounds That Inhibit 17 β -Hydroxysteroid Dehydrogenase Type 2 Journal of Natural Products, 80 (4), 965-974 (2017).
2378.	35.	Shi, M.-B., Zhang, W., Liu, H., Liu, L.-H. Optimization of quantitative method for curcumin and its carrier drugs by ultraviolet-visible spectrophotometry Journal of International Pharmaceutical Research, 44 (4), 366-368 (2017).
2379.	36.	Alkhader, E., Billa, N., Roberts, C.J. Mucoadhesive Chitosan-Pectinate Nanoparticles for the Delivery of Curcumin to the Colon AAPS PharmSciTech, 18 (4), 1009-1018 (2017).
2380.	37.	Heffernan, C., Ukrainczyk, M., Gamidi, R.K., Hodnett, B.K., Rasmuson, Å.C. Extraction and Purification of Curcuminoids from Crude Curcumin by a Combination of Crystallization and Chromatography Organic Process Research and Development, 21 (6), 821-826 (2017).
2381.	38.	Cooksey, C.J. Turmeric: old spice, new spice Biotechnic and Histochemistry, 92 (5), 309-314 (2017).
2382.	39.	Moussa, Z., Chebl, M., Patra, D. Fluorescence of tautomeric forms of curcumin in different pH and biosurfactant rhamnolipids systems: Application towards on-off ratiometric fluorescence temperature sensing Journal of Photochemistry and Photobiology B: Biology, 173, 307-317 (2017).
2383.	40.	Zhang, Y., Yan, Y., Cao, Y., Yang, Y., Zhao, Q., Jing, R., Hu, J., Bao, J. Potential therapeutic and protective effect of curcumin against stroke in the male albino stroke-induced model rats Life Sciences, 183, 45-49 (2017).

2384.	41.	Bo, L.-J., Miao, Z., Wang, Z.-F., Zhang, K.-Z., Gao, Z. A study on effect of curcumin on anticerebral aneurysm in the male albino rats Brain and Behavior, 7 (9), art. e00729, (2017).
2385.	42.	Novaes, J.T., Lillico, R., Sayre, C.L., Nagabushnam, K., Majeed, M., Chen, Y., Ho, E.A., Oliveira, A.L.P., Martinez, S.E., Alrushaid, S., Davies, N.M., Lakowski, T.M. Disposition, metabolism and histone deacetylase and acetyltransferase inhibition activity of tetrahydrocurcumin and other curcuminoids Pharmaceutics, 9 (4), art. 45, (2017).
2386.	43.	Kandasamy, S., Chinnasamy, K., Poomani, K. Understanding the conformational flexibility and electrostatic properties of curcumin in the active site of rhAChE via molecular docking, molecular dynamics, and charge density analysis Journal of Biomolecular Structure and Dynamics, 35 (16), 3627-3647 (2017).
2387.	44.	Alinezhad, V., Alinezhad, H., Ataee, R., Ataie, A. Utilization of curcumin and nanocurcumin compounds in cancer therapy Pharmaceutical and Biomedical Research, 3 (3), 1-11 (2017).
2388.	45.	Dias-Souza, M.V., dos Santos, R.M. Phytonutrients of Nutraceutical Importance: Exploring Antimicrobial, Antiproliferative, and Antioxidant Activities Pharmaceutical Sciences: Breakthroughs in Research and Practice, 1, 521-550, IGI Global (2017).
2389.	46.	Dias-Souza, M.V., dos Santos, R.M. Phytonutrients of Nutraceutical Importance: Exploring Antimicrobial, Antiproliferative, and Antioxidant Activities Examining the Development, Regulation, and Consumption of Functional Foods (B.Sailas, editor), 45-82, IGI Global (2017).
2390.	47.	Tavanti, F., Pedone, A., Menziani, M.C. Computational Insight into the Effect of Natural Compounds on the Destabilization of Preformed Amyloid-beta (1–40) Fibrils Molecules, 23, art. 1320 (2018).
2391.	48.	Zhang, Q., Polyakov, N.E., Chistyachenko, Y.S., Khvostov, M.V., Frolova, T.S., Tolstikova, T.G., Dushkin, A.V., Su, W. Preparation of curcumin self-micelle solid dispersion with enhanced bioavailability and cytotoxic activity by mechanochemistry Drug Delivery, 25 (1), 198-209 (2018).
2392.	49.	John, J., Rugmini, S.D., Nair, B.S. Kinetics and Mechanism of the Thermal and Hydrolytic Decomposition Reaction of Rosocyanin International Journal of Chemical Kinetics, 50 (3), 164-177 (2018).
2393.	50.	Zhao, L., Kang, L., Chen, Y., Li, G., Wang, L., Hu, C., Yang, P. Spectral study on conformation switchable cationic calix[4]carbazole serving as curcumin container, stabilizer and sustained-delivery carrier Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 193, 276-282 (2018).
2394.	51.	Abdelaleem, M.M., El-Tahawy, N.F.G., Abozaid, S.M.M., Abdel-Hakim, S.A.-B. Possible protective effect of curcumin on the thyroid gland changes induced by sodium fluoride in albino rats: Light and electron microscopic study Endocrine Regulations, 52 (2), 59-68 (2018).
2395.	52.	Zheng, J., Cheng, J., Zheng, S., Feng, Q., Xiao, X. Curcumin, a polyphenolic curcuminoid with its protective effects and molecular mechanisms in diabetes and diabetic cardiomyopathy Frontiers in Pharmacology, 9 (MAY), art. 472, (2018).
2396.	53.	Zhang, Y., Fang, M., Sun, Y., Zhang, T., Shi, N., Li, J., Jin, L., Liu, K., Fu, J. Curcumin attenuates cerebral ischemia injury in Sprague–Dawley rats and PC12 cells by suppressing overactivated autophagy Journal of Photochemistry and Photobiology B: Biology, 184, 1-6 (2018).

2397.	54.	Martin, Y.C. Experimental and pK _a prediction aspects of tautomerism of drug-like molecules Drug Discovery Today: Technologies, 27, 59-64 (2018).
2398.	55.	Mishra, R., Gupta, A.K., Kumar, A., Lal, R.K., Saikia, D., Chanotiya, C.S. Genetic diversity, essential oil composition, and in vitro antioxidant and antimicrobial activity of Curcuma longa L. germplasm collections Journal of Applied Research on Medicinal and Aromatic Plants, 10, 75-84 (2018).
2399.	56.	Cardoso, B.D., Rio, I.S.R., Rodrigues, A.R.O., Fernandes, F.C.T., Almeida, B.G., Pires, A., Pereira, A.M., Araújo, J.P., Castanheira, E.M.S., Coutinho, P.J.G. Magnetoliposomes containing magnesium ferrite nanoparticles as nanocarriers for the model drug curcumin Royal Society Open Science, 5 (10), art. 181017 (2018).
2400.	57.	Spaeth, A., Graeler, A., Maisch, T., Plaetzer, K. CureCuma–cationic curcuminoids with improved properties and enhanced antimicrobial photodynamic activity European Journal of Medicinal Chemistry, 159, 423-440 (2018).
2401.	58.	Agarwal, A., Saxena, P.N. Curcumin administration attenuates accumulation of mercuric chloride in vital organs of experimental rats and leads to prevent hepatic and renal toxicity International Journal of Pharmaceutical Sciences and Research, 9 (3), 1176-1182 (2018).
2402.	59.	Menon, S., Mhatre, M., Rajarshi, M., Thakkar, J. Bioavailability of curcumin from a novel mouth dissolving lozenge International Journal of Basic & Clinical Pharmacology, 7 (3), 561-568 (2018).
2403.	60.	Jeena, J., Sudha, D.R., Balachandran, S. A comparative study on the antioxidant properties of curcuminoids and its rubrocurcumin analogues Bulletin of Pure & Applied Sciences – Chemistry, 37c (1), 121-125 (2018).
2404.	61.	Scheng, I., Kai Shau, D. Study on Curcumin as Ergogenic Aid of Glycogen Re-Synthesis in Exercised Human Skeletal Muscle Proceedings of ISER 110th International Conference, Brisbane, Australia, 4th-5th March 2018, 9-13.
2405.	62.	Smith, A. Investigation Into the Use of Molecularly Imprinted Polymer Nanoparticles for the Delivery of Therapeutic Compounds PhD Thesis, University of Leicester, UK (2018).
2406.	63.	Saravanan, K. Investigation of Structure, Intermolecular interactions, Charge density distribution and Stability of some Ligand– Protein (AChE, BACE1 and GSK3β) Complexes Periyar University, India (2018).
2407.	64.	Alkhader, E.A. Curcumin Containing Chitosan-Pectinate Nanoparticulate Drug Delivery System for Colon Cancer Treatment PhD Thesis, University of Nottingham, UK (2018).
2408.	65.	Cardoso, B.D., Pereira, D.S.M., Rodrigues, A.R.O., Coutinho, P.J.G., Castanheira, E.M.S. Development of drug-loaded magneto-sensitive liposomes investigated by fluorescence techniques Proceedings of SPIE - The International Society for Optical Engineering, 11207, art. 112071R (2019).
2409.	66.	Emre Unsal, Y., Tuzen, M., Soylak, M. Ultrasound-assisted ionic liquid-dispersive liquid–liquid of curcumin in food samples microextraction and its spectrophotometric determination Journal of AOAC International, 102 (1), 217-221 (2019).
2410.	67.	Kim, S.G., Suh, H.J., Han, S.H., Lee, H.-S., Kim, H.-W., Kim, H. Encapsulated curcumin enhances intestinal absorption and improves hepatic damage in alcoholic liver disease-induced rats

		Preventive Nutrition and Food Science, 24 (4), 410-417 (2019).
2411.	68.	Wei, W., Peng, J., Li, J. Curcumin attenuates hypoxia/reoxygenation-induced myocardial injury Molecular Medicine Reports, 20 (6), 4821-4830 (2019).
2412.	69.	El-Nabarawy, N., Gouda, A., Shalaby, E. Therapeutic intervention of curcumin on interleukin-6 and oxidative stress induced by paraquat toxicity of lung and liver in rats Biomedical and Pharmacology Journal, 12 (4), 1737-1748 (2019).
2413.	70.	Ma, D.-L., Wu, C., Cheng, S.-S., Lee, F.-W., Han, Q.-B., Leung, C.-H. Development of natural product-conjugated metal complexes as cancer therapies International Journal of Molecular Sciences, 20 (2), art. 341 (2019).
2414.	71.	Saberi-Karimian, M., Katsiki, N., Caraglia, M., Boccellino, M., Majeed, M., Sahebkar, A. Vascular endothelial growth factor: an important molecular target of curcumin Critical Reviews in Food Science and Nutrition, 59 (2), 299-312 (2019).
2415.	72.	Amanlou, N., Parsa, M., Rostamizadeh, K., Sadighian, S., Moghaddam, F. Enhanced cytotoxic activity of curcumin on cancer cell lines by incorporating into gold/chitosan nanogels Materials Chemistry and Physics, 226, 151-157 (2019).
2416.	73.	Enumo, A., Pereira, C.I.D., Parize, A.L. Temperature Evaluation of Curcumin Keto-Enolic Kinetics and Its Interaction with Two Pluronic Copolymers Journal of Physical Chemistry B, 123 (26), 5641-5650 (2019).
2417.	74.	Yoo, B.-H., Jang, H.S., Lee, S.B. Chromaticity analysis of curcumin extracted from curcuma and turmeric: Optimization using response surface methodology Applied Chemistry for Engineering, 30 (4), 421-428 (2019).
2418.	75.	Azizi, A., Shohrati, P., Goudarzi, M., Lawaf, S., Rahimi, A. Comparison of the effect of photodynamic therapy with curcumin and methylene Blue on streptococcus mutans bacterial colonies Photodiagnosis and Photodynamic Therapy, 27, 203-209 (2019).
2419.	76.	Lübtow, M.M., Marciniak, H., Schmiedel, A., Roos, M., Lambert, C., Luxenhofer, R. Ultra-High to Ultra-Low Drug-Loaded Micelles: Probing Host-Guest Interactions by Fluorescence Spectroscopy Chemistry - A European Journal, 25 (54), 12601-12610 (2019).
2420.	77.	Lin, C.-J., Chang, L., Chu, H.-W., Lin, H.-J., Chang, P.-C., Wang, R.Y.L., Unnikrishnan, B., Mao, J.-Y., Chen, S.-Y., Huang, C.-C. High Amplification of the Antiviral Activity of Curcumin through Transformation into Carbon Quantum Dots Small, 15 (41), art. 1902641 (2019).
2421.	78.	Sotomil, J.M., Münchow, E.A., Pankajakshan, D., Spolnik, K.J., Ferreira, J.A., Gregory, R.L., Bottino, M.C. Curcumin—A Natural Medicament for Root Canal Disinfection: Effects of Irrigation, Drug Release, and Photoactivation Journal of Endodontics, 45 (11), 1371-1377 (2019).
2422.	79.	Rajabi, M., Farhadian, S., Shareghi, B., Asgharzadeh, S., Momeni, L. Noncovalent interactions of bovine trypsin with curcumin and effect on stability, structure, and function Colloids and Surfaces B: Biointerfaces, 183, art. 110287 (2019).
2423.	80.	Soto-Quintero, A., Guarrotxena, N., García, O., Quijada-Garrido, I. Curcumin to Promote the Synthesis of Silver NPs and their Self-Assembly with a Thermoresponsive Polymer in Core-Shell Nanohybrids Scientific Reports, 9 (1), art. 18187 (2019).
2424.	81.	Ajaj, I., Assaleh, F.H., Markovski, J., Rančić, M., Brković, D., Milčić, M., Marinković, A.D. Solvatochromism and azo-hydrazo tautomerism of novel arylazo pyridone dyes: Experimental and quantum chemical study, Arabian Journal of Chemistry, 12 (8), 3463-3478 (2019).

2425.	82.	Shenderovich, I.G. The Partner Does Matter: The Structure of Heteroaggregates of Acridine Orange in Water Molecules, 24 (15), art. 2816 (2019).
2426.	83.	Bassaid, S., Guarnaccio, A., Dehbi, A., D'Auria, M., Tiffour, I. Identification of supramolecular structure in a semiconductor mixture of two organic compounds: curcumin and paracetamol SN Applied Sciences, 1 (3), art. 198 (2019).
2427.	84.	Girardon, M., Parant, S., Monari, A., Dehez, F., Chipot, C., Rogalska, E., Canilho, N., Pasc, A. Triggering tautomerization of curcumin by confinement into liposomes ChemPhotoChem, 10 (3), 1034-1041 (2019).
2428.	85.	Anees, K., Zachariah, T.J., Shilpa, S., Athira, M., Ashly, M.J. Comparison of Crystalline Curcumin and its Nanoformulation for Bioactivity International Journal of Innovative Horticulture, 8 (2), 43-149 (2019).
2429.	86.	Gupta R.C., Lall R., Sinha A., Srivastava A. Nutraceuticals for Diabetes in Dogs and Cats Nutraceuticals in Veterinary Medicine (Gupta R., Srivastava A., Lall R. eds), Springer (2019).
2430.	87.	Slika, L., Patra, D. A short review on chemical properties, stability and nano-technological advances for curcumin delivery Expert Opinion on Drug Delivery, 17 (1), 61-75 (2020).
2431.	88.	Altunay, N., Elik, A., Gürkan, R. Preparation and application of alcohol based deep eutectic solvents for extraction of curcumin in food samples prior to its spectrophotometric determination Food Chemistry, 310, art. 125933 (2020).
2432.	89.	Jebur, J.H., Hassan, Q.M.A., Al-Mudhaffer, M.F., Al-Asadi, A.S., Elias, R.S., Saeed, B.S., Emshary, C.A. The gamma radiation effect on the surface morphology and optical properties of alpha-methyl curcumin: PMMA film Physica Scripta, 95 (4), art. 045805 (2020).
2433.	90.	Wahl, O., Sander, T. Tautobase: An Open Tautomer Database Journal of Chemical Information and Modeling, 60 (3), 1085-1089 (2020).
2434.	91.	Zhang, L., McClements, D.J., Wei, Z., Wang, G., Liu, X., Liu, F. Delivery of synergistic polyphenol combinations using biopolymer-based systems: Advances in physicochemical properties, stability and bioavailability Critical Reviews in Food Science and Nutrition, 60 (12), 2083-2097 (2020).
2435.	92.	Rezayi, M., Mahmoodi, P.; Langari, H.; Behnam, B.; Sahebkar, A. Conjugates of Curcumin with Graphene and Carbon Nanotubes: A Review on Biomedical Applications Current Medicinal Chemistry, 27 (40), 6849-6863 (2020).
2436.	93.	Zheng, D., Huang, C., Huang, H., Zhao, Y., Khan, M.R.U., Zhao, H., Huang, L. Antibacterial Mechanism of Curcumin: A Review Chemistry and Biodiversity, 17 (8), art. no. e2000171 (2020).
2437.	94.	Zheng, B., McClements, D.J. Formulation of more efficacious curcumin delivery systems using colloid science: Enhanced solubility, stability, and bioavailability Molecules, 25 (12), art. no. 2791 (2020).
2438.	95.	Veloso, S.R.S., Andrade, R.G.D., Ribeiro, B.C., Fernandes, A.V.F., Rodrigues, A.R.O., Martins, J.A., Ferreira, P.M.T., Coutinho, P.J.G., Castanheira, E.M.S. Magnetoliposomes incorporated in peptide-based hydrogels: Towards development of magnetolipogels Nanomaterials, 10 (9), art. no. 1702, 1-13 (2020).
2439.	96.	Sharma, K., Das, B., Siril, P.F. Molecular Distribution of Indomethacin: Impact on the Precipitation of Glassy Curcumin pH-Responsive Nanoparticles with Enhanced Solubility Crystal Growth and Design, 20 (4), 2377-2389 (2020).

2440.	97.	Shah, K., Chauhan, D. N., Chauhan, S., Mishra, P. Recent Advancement in Prodrugs, RCR Press (2020), ISBN: 9780429328275.
2441.	98.	Sarkar, N., Das, B., Bishayee, A., Sinha, D. Arsenal of Phytochemicals to Combat Against Arsenic-Induced Mitochondrial Stress and Cancer Antioxidants & Redox Signaling, 33 (17), 1230-1256 (2020).
2442.	99.	Restrepo-Osorio, J., Nobile-Correa, D.P., Zuñiga, O., Sánchez-Andica, R.A. Determination of nutritional value of turmeric flour and the antioxidant activity of Curcuma longa rhizome extracts from agroecological and conventional crops of Valle del Cauca-Colombia [Determinação do valor nutricional da farinha de açafrão e da atividade antioxidante de extratos do rizoma de Curcuma longa de culturas agroecológicas e convencionais do Valle del Cauca-Colombia] Revista Colombiana de Química, 49 (1), 26-32 (2020).
2443.	100.	Quero, J., Mármol, I., Cerrada, E., Rodríguez-Yoldi, M.J. Insight into the potential application of polyphenol-rich dietary intervention in degenerative disease management Food and Function, 11 (4), 2805-2825 (2020).
2444.	101.	Perera, W.P.T.D., Dissanayake, R.K., Ranatunga, U.I., Hettiarachchi, N.M., Perera, K.D.C., Unagolla, J.M., De Silva, R.T., Pahalagedara, L.R. Curcumin loaded zinc oxide nanoparticles for activity-enhanced antibacterial and anticancer applications RSC Advances, 10 (51), 30785-30795 (2020).
2445.	102.	Nagy, N.Z., Varga, Z., Mihály, J., Domján, A., Fenyvesi, E., Kiss, E. Highly enhanced curcumin delivery applying association type nanostructures of block copolymers, cyclodextrins and polycyclodextrins Polymers, 12 (9), art. no. 2167 (2020).
2446.	103.	Murphy, R.B., Staton, J., Rawal, A., Darwish, T.A. The effect of deuteration on the keto-enol equilibrium and photostability of the sunscreen agent avobenzone Photochemical and Photobiological Sciences, 19 (10), 1410-1422 (2020).
2447.	104.	Jani, M.A., Bahrami, K Synthesis of 5 - substituted 1H - tetrazoles and oxidation of sulfides by using boehmite nanoparticles/nickel - curcumin as a robust and extremely efficient green nanocatalyst Applied Organometallic Chemistry, 34 (12), art. no. e6014 (2020).
2448.	105.	Mousaabadi, K.Z., Ensafi, A.A., Hadadzadeh, H., Rezaei, B. Reduced graphene oxide and carbon nanotubes composite functionalized by azobenzene, characterization and its potential as a curcumin electrochemical sensor Journal of Electroanalytical Chemistry, 873, art. no. 114418 (2020).
2449.	106.	Kumar, R., Uppal, S., Kaur, K., Mehta, S.K. Curcumin nanoemulsion as a biocompatible medium to study the metal ion imbalance in a biological system Journal of Molecular Liquids, 314, art. no. 113611 (2020).
2450.	107.	Jebur, J.H., Hassan, Q.M.A., Al-Mudhaffer, M.F., Al-Asadi, A.S., Elias, R.S., Saeed, B.A., Emshary, C.A. The gamma radiation effect on the surface morphology and optical properties of alpha-methyl curcumin: PMMA film Physica Scripta, 95 (4), art. no. 045804 (2020).
2451.	108.	Jani, M.A., Bahrami, K. BNPs@Cur-Pd as a versatile and recyclable green nanocatalyst for Suzuki, Heck and Stille coupling reactions Journal of Experimental Nanoscience, 15 (1), 182-201 (2020).
2452.	109.	He, F., Kong, Q., Jin, Z., Mou, H. Developing a unidirectionally permeable edible film based on κ-carrageenan and gelatin for visually detecting the freshness of grass carp fillets Carbohydrate Polymers, 241, art. no. 116336 (2020).
2453.	110.	Gupta, A.

		Development and characterisation of biosynthetic hydrogels for wound management applications Dissertation, University of Wolverhampton, United Kingdom (2020).
2454.	111.	Frias, E. A. F. Uso de la curcumina para la síntesis de inhibidores de la corrosión en acero al carbón 1018 en ácido sulfúrico Dissertation, Universidad Autónoma del Estado de Morelos, Mexico (2020).
2455.	112.	Dharmalingam, K., Anandalakshmi, R., Shekhar, S. Microwave-induced diffusion method for solid dispersion of curcumin in HPMC matrix using water as hydration carrier Journal of Dispersion Science and Technology, 1-12 (2020).
2456.	113.	Adalberto, E. J. Desenvolvimento de fibras eletrofiadas de acetato de celulose recobertas com quitosana contendo curcumina aplicadas em tratamentos cutâneos Dissertation, Universidade Federal de Santa Catarina, Brazil (2020).
2457.	114.	Umar, Y. Theoretical studies of the rotational and tautomeric states, electronic and spectroscopic properties of favipiravir and its structural analogues: a potential drug for the treatment of COVID-19 Journal of Taibah University for Science, 14 (1), 1613-1625 (2021).
2458.	115.	Naumova, K.A., Dement'eva, O.V., Senchikhin, I.N., Rudoy, V.M. Mesoporous silica particles based on complex micelles of poorly water-soluble compounds. One simple step to multidrug carriers Microporous and Mesoporous Materials, 316, art. no. 110911 (2021).
2459.	116.	Azizi, A., Lawaf, S. Photodynamic therapy (PDT) Journal of Research in Dental and Maxillofacial sciences; 6 (1) :1-3 (2021).
2460.	117.	Srikanth P., Naaz H., Rudrapal M., Yalagatti M.S. Analytical Standardization of Haridra Formulation by UV-Vis Spectrophotometry and RP-HPLC In: Mandal S.C., Chakraborty R., Sen S. (eds) Evidence Based Validation of Traditional Medicines. Springer, Singapore (2021).
2461.	118.	Grover, M., Behl, T., Sachdeva, M., Bungao, S., Aleya, L., Setia, D. Focus on Multi-targeted Role of Curcumin: a Boon in Therapeutic Paradigm Environmental Science and Pollution Research, 28, 18893–18907 (2021).
2462.	119.	Loaiza-Cano, V., Monsalve-Escudero, L.M., Filho, C.D.S.M.B., Martinez-Gutierrez, M., de Sousa, D.P. Antiviral role of phenolic compounds against dengue virus: A review Biomolecules, 11 (1), art. no. 11, 1-28 (2021).
2463.	120.	Mishra, R., Gupta, A.K. CHAPTER 8: Biological Activities of Curcuminoids, Food Chemistry, Function and Analysis, RSC, 172-195 (2021).
2464.	121.	Bhatt, H., Thomas, S., Vishwakarma, S.R. Unravelling the nature of intra-molecular hydrogen bonds in curcumin using in-situ low temperature spectroscopic studies Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 259, art. no. 119903 (2021).
2465.	122.	Sadatsharifi, M., Purgel, M. Radical scavenger competition of alizarin and curcumin: a mechanistic DFT study on antioxidant activity Journal of Molecular Modeling, 27 (6), art. no. 166 (2021).
2466.	123.	de Oliveira, D.E.T.B., Bezerra, L.A.B., Oliveira, R.J., de Moraes, V.B., da Silva, J.A.B., de Freitas Filho, J.R., Freitas, J.C.R., Ramos, C.S. Curcumine as a natural pH indicator: an experimental theoretical approach for chemical teaching Quimica Nova, 44 (2), 217-223 (2021).

2467.	124.	Aman, L.O., Kartasasmita, R.E., Tjahjono, D.H. Virtual screening of curcumin analogues as DYRK2 inhibitor: Pharmacophore analysis, molecular docking and dynamics, and ADME prediction F1000Research, 10, art. no. 394 (2021).
2468.	125.	Enogieru, A.B., Momodu, O.I. The Developing Cerebellum as a Target for Toxic Substances: Protective Role of Antioxidants Cerebellum, doi: 10.1007/s12311-021-01231-0 (2021) .
2469.	126.	Salehi, B., Rodrigues, C.F., Peron, G., Dall'Acqua, S., Sharifi-Rad, J., Azmi, L., Shukla, I., Singh Baghel, U., Prakash Mishra, A., Elissawy, A.M., Singab, A.N., Pezzani, R., Redaelli, M., Patra, J.K., Kulandaisamy Venil, C., Das, G., Singh, D., Kriplani, P., Venditti, A., Fokou, P.V.T., Iriti, M., Amarowicz, R., Martorell, M., Cruz-Martins, N. Curcumin nanoformulations for antimicrobial and wound healing purposes Phytotherapy Research, doi: 10.1002/ptr.6976 (2021).
2470.	127.	Hazarika, R., Kalita, B. Elucidating the therapeutic activity of selective curcumin analogues: DFT-based reactivity analysis Structural Chemistry, doi: 10.1007/s11224-021-01745-7 (2021).
2471.	128.	Canistro, D., Chiavaroli, A., Cicia, D., Cimino, F., Currò, D., Dell'Agli, M., Ferrante, C., Giovannelli, L., Leone, S., Martinelli, G., Milella, L., Pagano, E., Piazza, S., Ponticelli, M., Recinella, L., Ristori, S., Sangiovanni, E., Smeriglio, A., Speciale, A., Trombetta, D., Vivarelli, F. The pharmacological basis of the curcumin nutraceutical uses: an update PharmAdvances, doi: 10.36118/pharmadvances.2021.06 (2021).
C.70. Prediction of the color of dyes by using time-dependent density functional theory. S.Kawauchi, L.Antonov & Y.Okuno; <i>Bulgarian Chemical Communications</i> , 46 , 228-237 (2014)		
2472.	1.	Torres, A.E., Flores, R., Fomine, S. A comparative study of one and two dimensional π -conjugated systems Synthetic Metals, 213, 78-87 (2016).
2473.	2.	Lazić, A.M., Božić, B.Đ., Vitnik, V.D., Vitnik, Ž.J., Rogan, J.R., Radovanović, L.D., Valentić, N.V., Ušćumlić, G.S. Structure-property relationship of 3-(4-substituted benzyl)-1,3-diazaspiro[4.4]nonane-2,4-diones as new potential anticonvulsant agents. An experimental and theoretical study Journal of Molecular Structure, 1127, 88-98 (2017).
2474.	3.	Podsiadły, R., Sokołowska, J., Kolińska, J., Grzelakowska, A. Synthesis and photochemical reaction of benzo[a]quinoxalino[2,3-c]phenazine dyes Coloration Technology, 133 (6), 498-505 (2017).
2475.	4.	Tang, J., Guo, Y., Xu, C. Light pollution effects of illuminance on yellowish green forsterite color under CIE standard light source D ∞ Ekoloji, 27 (106), 1181-1190 (2018).
2476.	5.	野田 智之 量子化学計算による有機色材の可視スペクトルの予測, 色材協会誌, 92 (3), 73-81 (2019).
2477.	6.	Biagagne, A., Knowlton, W.B., Yurke, B., Lee, J., Li, L. Substituent Effects on the Solubility and Electronic Properties of the Cyanine Dye Cy5: Density Functional and Time-Dependent Density Functional Theory Calculations Molecules, 26 (3), art. no. 524 (2021).
C.71. Controlled tautomeric switching in azonaphthols - tune by substituents in the phenyl ring. L.Antonov, V.Deneva, S.Simeonov, V.Kurteva, A.Crochet, K.M.Fromm, B.Shivachev, R.Nikolova, M.Savarese & C.Adamo; <i>ChemPhysChem</i> , 16 , 649-657 (2015)		
2478.	1.	Ferreira, G.R., de Oliveira, L.F.C. Synthesis, spectroscopic and structural studies of new azo dyes metal chelates derivated from 1-phenil-azo-2-naphthol Journal of Molecular Structure, 1146, 50-56 (2017).
2479.	2.	Rege, S.A., Arya, M., Momin, S.

		Structure activity relationship of tautomers of curcumin: a review Ukrainian Food Journal, 8 (1), 45-60 (2019).
2480.	3.	Darugar, V., Vakili, M., Tayyari, S.F. Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach Optik, 236, art. no. 166475 (2021).
C.72. Computational insights on the excited state proton transfer reactions in azo and azomethine dyes. M.Savarese, É.Brémond, L.Antonov, I.Ciofini & C.Adamo; <i>ChemPhysChem</i> , 16 , 3966-3973 (2015)		
2481.	1.	Raoui, M., Massue, J., Azarias, C., Jacquemin, D., Ulrich, G. Highly fluorescent extended 2-(2'-hydroxyphenyl)benzazole dyes: Synthesis, optical properties and first-principle calculations Chemical Communications, 52 (59), 9216-9219 (2016).
2482.	2.	Budzák, S., Jacquemin, D. Mechanism of Fluorescence Switching in One ESIPT-Based Al ³⁺ Probe Journal of Physical Chemistry B, 120 (27), 6730-6738 (2016).
2483.	3.	Bil, A., Latajka, Z., Biczysko, M. Hydrogen detachment driven by a repulsive 1 $\pi\sigma^*$ state-an electron localization function study of 3-amino-1,2,4-triazole Physical Chemistry Chemical Physics, 20 (7), 5210-5216 (2018).
2484.	4.	Meng, Q., Yang, S., Ren, G., Chu, T. A two-channel mechanism for the asymmetric excited-state intramolecular double proton transfer in a hydroxyflavone derivative Journal of Luminescence, 200, 14-18 (2018).
2485.	5.	Massue, J., Jacquemin, D., Ulrich, G. Molecular engineering of Excited-State Intramolecular Proton Transfer (ESIPT) dual and triple emitters Chemistry Letters, 47 (9), 1083-1089 (2018).
2486.	6.	Darugar, V., Vakili, M., Tayyari, S.F. Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach Optik, 236, art. no. 166475 (2021).
2487.	7.	Angelin, E.M., Oliveira, M.C., Nevin, A., Picollo, M., Melo, M.J. To be or not to be an azo pigment: chemistry for the preservation of historical β -naphthol reds in cultural heritage Dyes and Pigments, 190, art. no. 109244 (2021)
C.73. 4-Hydroxy-1-naphthaldehydes: proton transfer or deprotonation. Y.Manolova, V.Kurteva, L.Antonov, H.Marciniak, S.Lochbrunner, A.Crochet, K.M.Fromm, F.S.Kamounah & P.E.Hansen; <i>Physical Chemistry Chemical Physics</i> , 17 , 10238-10249 (2015)		
2488.	1.	El-Amri, A., Elroby, S.A., Kühn, O., Hilal, R.H. Toward understanding tautomeric switching in 4-hydroxynaphthaldehyde and its dimers: A DFT and quantum topology study Journal of Theoretical and Computational Chemistry, 14 (3), art. 1550016, (2015).
2489.	2.	El-Amry, A., Elroby, S.A., Kühn, O., Hilal, R.H. Toward understanding tautomeric switching in hydroxynaphthaldehydes: Characterization of electronic absorption spectra Journal of Theoretical and Computational Chemistry, 14 (5), art. 1550033, (2015).
2490.	3.	Irshaidat, T. Toward exploring novel organic materials: MP4-DFT properties of 4-amino-3-iminoindene Molecules, 22 (5), art. 720, (2017).
2491.	4.	Tuncer, N., Teknikel, E., Unaleroglu, C. Rationally Designed Fluorescent pH Sensors for Measurements in Extremely Alkaline Media Journal of Fluorescence, 28 (6), 1413-1420 (2018).
2492.	5.	İbişoğlu, H., Eçik, E.T., Çiftçi, G.Y. Syntheses and characterizations of cyclotriphosphazenes containing 4-oxy-1-naphthaldehyde group

		Turkish Journal of Chemistry, 42, 1174-1183 (2018).
C.74. Tautomeric transformations of piroxicam in solution: a combined experimental and theoretical study. D.Ivanova, V.Deneva, D.Nedeltcheva, F.S.Kamounah, G.Gergov, P.E.Hansen, S.Kawauchi & L.Antonov, <i>RSC Advances</i> , 5, 31852-31860 (2015)		
2493.	1.	Ferrari, G.V., Natera, J., Paulina Montaña, M., Muñoz, V., Gutiérrez, E.L., Massad, W., Miskoski, S., García, N.A. Scavenging of photogenerated ROS by Oxicams. Possible biological and environmental implications <i>Journal of Photochemistry and Photobiology B: Biology</i> , 153, 233-239 (2015).
2494.	2.	Chi, Y., Liu, C., Ren, T., Wang, X., Yang, Q., Yang, Z., Yang, Y., Yang, S., Gu, J., Hu, C. Sodium Salts and Solvate of Rebamipide: Synthesis, Structure, and Pharmacokinetic Study <i>Crystal Growth and Design</i> , 16 (6), 3180-3189 (2016).
2495.	3.	Ledesma-Olvera, L.G., Agacino-Valdés, E., Gómez-Balderas, R. Stability constants of Cu(II)-piroxicam complexes in solution: a DFT study <i>Theoretical Chemistry Accounts</i> , 135 (10), art. 241, (2016).
2496.	4.	Charumanee, S., Okonogi, S., Sirithunyalug, J., Wolschann, P., Viernstein, H. Effect of cyclodextrin types and co-solvent on solubility of a poorly water soluble drug <i>Scientia Pharmaceutica</i> , 84 (4), art. 84, 694-704 (2016).
2497.	5.	Saganuwan, S.A. In vivo piroxicam metabolites: Possible source for synthesis of central nervous system (CNS) acting depressants <i>Central Nervous System Agents in Medicinal Chemistry</i> , 17 (3), 172-177 (2017).
2498.	6.	Wilkosz, N., Rissanen, S., Cyza, M., Szybka, R., Nowakowska, M., Bunker, A., Róg, T., Kepczynski, M. Effect of piroxicam on lipid membranes: Drug encapsulation and gastric toxicity aspects <i>European Journal of Pharmaceutical Sciences</i> , 100, 116-125 (2017).
2499.	7.	Avdeef, A. Cocrystal Solubility Product Prediction Using an in combo Model and Simulations to Improve Design of Experiments <i>Pharmaceutical Research</i> , 35 (2), art. 40, (2018).
2500.	8.	Castro, G.T., Filippa, M.A., Peralta, C.M., Davin, M.V., Almandoz, M.C., Gasull, E.I. Solubility and Preferential Solvation of Piroxicam in Neat Solvents and Binary Systems <i>Zeitschrift für Physikalische Chemie</i> , 232 (2), 257-280 (2018).
2501.	9.	Debnath, S., Mondal, S. Sultams: Recent Syntheses and Applications <i>European Journal of Organic Chemistry</i> , 2018 (8), 933-956 (2018).
2502.	10.	Sarkar, S., Ash, T., Debnath, T., Das, A.K. Theoretical analysis of tautomerization of succinimide and analogous compounds: insights from DFT approach <i>Structural Chemistry</i> , 29 (3), 881-896 (2018).
2503.	11.	Al-Mohaimed, A.M. Formation constants of mixed ligand complexes of anti-inflammatory drug piroxicam and some bioligands with copper(II) (2019) <i>Asian Journal of Chemistry</i> , 31 (12), 2937-2940 (2019).
2504.	12.	Gutiérrez, E.L., Montaña, M.P., Ferrari, G.V. On Piroxicam degradation by homogeneous Fenton's reaction and the influence of iron cations complexation <i>Journal of Water Process Engineering</i> , 28, 82-87 (2019).
2505.	13.	Partheniadis, I., Gkogkou, P., Kantiranis, N., Nikolakakis, I. Modulation of the release of a non-interacting low solubility drug from chitosan pellets using different pellet size, composition and numerical optimization <i>Pharmaceutics</i> , 11 (4), art. 175 (2019).
2506.	14.	Marrero-Carballo, R., Tun-Rosado, F., Mena-Rejón, G.J., Cáceres-Castillo, D., Barroso, J., Murillo, F., Merino, G., Quijano-Quiñones, R.F. The base-catalyzed keto-enol tautomerism of chrysophanol anthrone. A DFT investigation of the base-catalyzed reaction

		Molecular Simulation, 45 (9), 716-723 (2019).
2507.	15.	Watson, M.A., Yu, H.S., Bochevarov, A.D. Generation of Tautomers Using Micro-p K _{inf} 's Journal of Chemical Information and Modeling, 59 (6), 2672-2689 (2019).
2508.	16.	Wolnica, K., Szklarz, G., Dulski, M., Wojtyniak, M., Tarnacka, M., Kaminska, E., Wrzalik, R., Kaminski, K., Paluch, M. Studying tautomerism in an important pharmaceutical glibenclamide confined in the thin nanometric layers Colloids and Surfaces B: Biointerfaces, 182, art. 110319 (2019).
2509.	17.	Plappert, S.F., Liebner, F.W., Konnerth, J., Nedelec, J.-M. Anisotropic nanocellulose gel-membranes for drug delivery: Tailoring structure and interface by sequential periodate-chlorite oxidation Carbohydrate Polymers, 226, art. 115306 (2019).
2510.	18.	Mostafa, G.A.E., Al-Dosseri, A.S., Al-Badr, A.A. Piroxicam Profiles of Drug Substances, Excipients and Related Methodology, 45, 199-474 (2020).
2511.	19.	Zhao, Q.-Q., Hu, X.-Q. Recent advances in catalytic synthesis of benzosultams Molecules, 25 (19), art. no. 4367 (2020).
2512.	20.	Mazák, K., Noszá, B. Physicochemical Properties of Zwitterionic Drugs in Therapy ChemMedChem, 15 (13), 1102-1110 (2020).
2513.	21.	Kiamehr, M., Khademi, F., Jafari, B., Langer, P. Efficient synthesis of pentacyclic benzosultam-annulated thiopyranoindoles via domino Knoevenagel / intramolecular hetero-Diels-Alder reactions in water Chemistry of Heterocyclic Compounds, 56 (3), 392-398 (2020).
2514.	22.	Chen, H., Wang, C., Liu, S., Sun, C.C. Development of piroxicam mini-tablets enabled by spherical cocrystallization International Journal of Pharmaceutics, 590, art. no. 119953 (2020).
2515.	23.	Ameen, S.H.H., Ameen, D.M.H. Kinetic Study of Lornoxicam Hydrolysis Zanco Journal of Pure and Applied Sciences. 32(1), 65-74 (2020).
2516.	24.	Profiles of Drug Substances, Excipients, and Related Methodology, vol. 45, Britain, H.G. (Ed.) Academic Press, London (2020).
2517.	25.	Umar, Y. Theoretical studies of the rotational and tautomeric states, electronic and spectroscopic properties of favipiravir and its structural analogues: a potential drug for the treatment of COVID-19 Journal of Taibah University for Science, 14 (1), 1613-1625 (2021).
2518.	26.	Menshikova, I., Zakharova, O. Pharmacokinetics of Piroxicam Pharmaceutical Forms: an Experimental Study Current Trends in Biotechnology and Pharmacy, 15 (2), 164-171 (2021).
2519.	27.	Otsuka, Y., Goto, S. Dry and wet mechanochemical synthesis of piroxicam and saccharin co-crystals and evaluation by powder X-ray diffraction, thermal analysis and mid- and near-infrared spectroscopy Journal of Pharmaceutical Sciences, doi: 10.1016/j.xphs.2021.06.024 (2021).
C.75. Comment on "Spectroscopic studies of keto-enol tautomeric equilibrium of azo dyes" by M. A. Rauf, S. Hisaindee and N. Saleh, RSC Adv., 2015, 5, 18097. L.Antonov, P.E.Hansen & G. van der Zwan; RSC Advances, 5, 67165-67167 (2015)		
2520.	1.	Bártová, K., Císařová, I., Lyčka, A., Dračinský, M. Tautomerism of azo dyes in the solid state studied by 15N, 14N, 13C and 1H NMR spectroscopy, X-ray diffraction and quantum-chemical calculations Dyes and Pigments, 178, art. 108342 (2020)
2521.	2.	Ben Mohamed-Smati, S., Faraj, F.L., Becheker, I., Berredjem, H., Le Bideau, F., Hamdi, M.,

		Dumas, F., Rachedi, Y. Synthesis, characterization and antimicrobial activity of some new azo dyes derived from 4-hydroxy-6-methyl-2H-pyran-2-one and its dihydro derivative Dyes and Pigments, 188, art. no. 109073 (2021).
C.76. Conformational behaviour of 3-methyl-4-(4-methylbenzoyl)-1-phenyl-pyrazol-5-one: a sudden story of three desmotropes. V.Kurteva, B.Shivachev, R.Nikolova, S.Simova, <u>L.Antonov</u> , L.Lubenov & M.Petrova; <i>RSC Advances</i> , 5 , 73859-73867 (2015)		
2522.	1.	Pettinari, R., Marchetti, F., Pettinari, C., Condello, F., Skelton, B.W., White, A.H., Chierotti, M.R., Gobetto, R. Self-assembly of arene ruthenium acylpyrazolone fragments to tetranuclear metallacycles. Molecular structures and solid-state ¹⁵ N CPMAS NMR correlations Dalton Transactions, 45 (9), 3974-3982 (2016).
2523.	2.	Bukhari, A.A. Towards the synthesis of new macrocyclic receptors PhD Thesis, University of Manchester, UK (2017).
2524.	3.	Araya-Sibaja, A.M., Maduro de Campos, C.E., Fandaruff, C., Vega-Baudrit, J.R., Guillén-Girón, T., Navarro-Hoyos, M., Cuffini, S.L. Irbesartan desmotropes: Solid-state characterization, thermodynamic study and dissolution properties Journal of Pharmaceutical Analysis, 9 (5), 339-346 (2019).
C.77. 10-Hydroxybenzo[h]quinoline: switching between single- and double-well proton transfer through structural modifications. S.Hristova, G.Dobrikov, F.S.Kamounah, S.Kawauchi, P.E.Hansen, V.Deneva, D.Nedeltcheva & <u>L.Antonov</u> ; <i>RSC Advances</i> , 5 , 102495-102507 (2015)		
2525.	1.	Chansen, W., Salaeh, R., Prommin, C., Kerdpol, K., Daengngern, R., Kungwan, N. Theoretical study on influence of geometry controlling over the excited-state intramolecular proton transfer of 10-hydroxybenzo[h]quinoline and its derivatives Computational and Theoretical Chemistry, 1113, 42-51 (2017).
2526.	2.	Suzuki, N., Suda, K., Yokogawa, D., Kitoh-Nishioka, H., Irle, S., Ando, A., Abegão, L.M.G., Kamada, K., Fukazawa, A., Yamaguchi, S. Near infrared two-photon-excited and -emissive dyes based on a strapped excited-state intramolecular proton-transfer (ESIPT) scaffold Chemical Science, 9 (10), 2666-2673 (2018).
2527.	3.	Maity, S., Ray, S.S., Chatterjee, A., Chakraborty, N., Ganguly, J. Sugar-Based Self-Assembly of Hydrogel Nanotubes Manifesting ESIPT: Theoretical Insight and Application in Live Cell Imaging ChemistrySelect, 3 (23), 6575-6580 (2018).
2528.	4.	He, Y., Li, C., Jia, X., Ma, Q., Liu, Y., Liu, Y., Yang, Y. A theoretical study on the effect of cyano group on the proton transfer process of 10-hydroxybenzo[h]quinoline Journal of Luminescence, 209, 295-301 (2019).
2529.	5.	Yu, X.-F., Xiao, B., Cheng, J., Liu, Z.-B., Yang, X., Li, Q. Theoretical Design of Near-Infrared Fluorescent Sensor for F Anion Detection Based on 10-Hydroxybenzo[h]quinoline Backbone ACS Omega, 4 (6), 10516-10523 (2019).
2530.	6.	Yu, X.-F., Sun, X.-Y., Xiao, B., Liu, Z.-B., Cheng, J., Yang, X., Li, W.-Z., Li, Q.-Z. Screening NIR fluorescent sensor based on HBQ derivatives: A theoretical study Journal of Photochemistry and Photobiology A: Chemistry, 383, art. 111989 (2019).
2531.	7.	Yang, Y., Liu, Y., Zhai, H., Jia, X., He, Y., Ma, Q., Zhang, R., Liu, Y., Jiang, K. Fluorescent behaviors and reaction mechanism of 10-hydroxybenzo[h]quinolone on the detection of phenylboronic acid Journal of Luminescence, 223, art. no. 117224 (2020).
2532.	8.	Ni, M., Su, S., Fang, H. Substituent control of photophysical properties for excited-state intramolecular proton transfer (ESIPT) of o-LHBDI derivatives: a TD-DFT investigation

		Journal of Molecular Modeling, 26 (5), art. no. 108 (2020).
2533.	9.	Fang, H. A theoretical study on water-assisted excited state double proton transfer process in substituted 2,7-diazaindole-H ₂ O complex Theoretical Chemistry Accounts, 139 (8), art. no. 139 (2020).
C.78. A simple approach to multifunctionalized N1-alkylated 7-amino-6-azaoxindole derivatives using their in situ stabilized tautomer form. N.T.Tzvetkov, B.Neumann, H.-G.Stammmler & L.Antonov; <i>Tetrahedron</i> , 72 , 6455-6466 (2016)		
2534.	1.	Wang, L., Taniguchi, Y., Okamura, H., Sasaki, S. Modification of the aminopyridine unit of 2-deoxyaminopyridinyl-pseudocytidine allowing triplex formation at CG interruptions in homopurine sequences Nucleic Acids Research, 46 (17), 8679-8688 (2018).
C.79. Insight into the aroma profile of Bulgarian tobacco absolute oil. D.Nedeltcheva-Antonova, D.Ivanova, L.Antonov & I.Abe; <i>Industrial Crops and Products</i> , 94 , 226-232 (2016)		
2535.	1.	Chen, X., Liu, L., Zhang, Y., Zhou, X., Lin, T., Song, Y., Li, J., Cheng, X. Acetylsalicylic acid application decreased tobacco-specific nitrosamines and its precursors but maintained quality of air-cured burley tobacco (<i>Nicotiana tabacum</i> L.) Industrial Crops and Products, 104, 221-228 (2017).
2536.	2.	Yan, N., Du, Y., Liu, X., Zhang, H., Liu, Y., Zhang, Z. A review on bioactivities of tobacco cembranoid diterpenes Biomolecules, 9 (1), art. 30 (2019).
2537.	3.	Popova, V., Ivanova, T., Prokopov, T., Nikolova, M., Stoyanova, A., Zheljazkov, V.D. Carotenoid-related volatile compounds of tobacco (<i>Nicotiana tabacum</i> L.) essential oils Molecules, 24 (19), art. 3446 (2019).
2538.	4.	Tasheva, S., Gandova, V., Popova, V., Ivanova, T., Stoyanova S. Thermodynamic Parameters of the Extraction of Three <i>Nicotiana</i> Species 2020 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020 - Proceedings, art. no. 9278782 (2020).
2539.	5.	任宗灿, 陈黎, 史天彩, 等. 非极性柱下保留指数结合 GC-MS/MS 分析烟草香味成分 (2020) 烟草科技, (8), 24-35 (2020).
2540.	6.	Yusuf, M., Atthamid, N.F.U., Indriati, S., Saleh, R., Latief, M., Rifai, A. Optimization ultrasonic assisted extraction (Uae) of bioactive compound and antibacterial potential from sea urchin (<i>diadema setosum</i>) Current Research in Nutrition and Food Science, 8 (2), 556-569 (2020).
2541.	7.	Ren, Z., Chen, L., Shi, T., Wang, X., Cui, H., Xie, F., Liu, H. Analysis of aroma components in tobacco by GC-MS/MS with nonpolar column based on retention index [非极性柱下保留指数结合 GC-MS/MS 分析烟草香味成分] Tobacco Science and Technology, 53 (8), 24-35 (2020).
2542.	8.	Qin, G., Zhao, G., Ouyang, C., Liu, J. Aroma components of tobacco powder from different producing areas based on gas chromatography ion mobility spectrometry Open Chemistry, 19 (1), pp. 442-450 (2021).
2543.	9.	Xia, Q., Yan, B., Wang, H., Xu, J., Zhang, S., Zhou, G., Hu, A., Jiang, J., Xu, S., Wang, J., Chen, W. Production of bio-oils enriched with aroma compounds from tobacco waste fast pyrolysis in a fluidized bed reactor Biomass Conversion and Biorefinery, doi.org/10.1007/s13399-019-00578-z (2021)
2544.	10.	Banožić, M., Aladić, K., Jerković, I., Jokić, S. Volatile organic compounds of tobacco leaves versus waste (scrap, dust, and midrib): extraction and optimization Journal of the Science of Food and Agriculture, 101 (5), 1822-1832 (2021).
C.80. 4-Carboxyl-2,6-dinitrophenylazohydroxynaphthalenes tautomerism theoretically re-explained. Y.Manolova, D.Nedeltcheva & L.Antonov; <i>Dyes and Pigments</i> , 136 , 663-668 (2017)		
2545.	1.	Lyčka, A.

		4-Carboxyl-2,6-dinitrophenylazohydroxynaphthalenes tautomerism NMR re-explained <i>Dyes and Pigments</i> , 142, 51-54 (2017).
2546.	2.	Darugar, V., Vakili, M., Tayyari, S.F. Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach <i>Optik</i> , 236, art. no. 166475 (2021).
C.81. 4-Carboxyl-2,6-dinitrophenylazohydroxynaphthalenes tautomerism NMR re-explained and other methods verified. S.Hristova, S.Angelova, P.E.Hansen & L.Antonov; <i>Dyes and Pigments</i> , 142 , 226-229 (2017)		
2547.	1.	Darugar, V., Vakili, M., Tayyari, S.F. Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach <i>Optik</i> , 236, art. no. 166475 (2021).
2548.	2.	Matovic, L., Ladarevic, J., Vitnik, Ž., Vitnik, V., Mijin, D. A detailed UV-Vis spectral investigation of six azo dyes derived from benzoic- and cinnamic acids: experimental and theoretical insight <i>Comptes Rendus Chimie</i> , 24 (2), 267-280 (2021).
C.82. Crystal structures, binding interactions, and ADME evaluation of brain penetrant N-substituted indazole-5-carboxamides as subnanomolar, selective monoamine oxidase B and dual MAO-A/B inhibitors. N.T.Tzvetkov, H.-G.Stammler, B.Neumann, S.Hristova, L.Antonov & M.Gastreich; <i>European Journal of Medicinal Chemistry</i> , 127 , 470-492 (2017)		
2549.	1.	Abid, S.M.A., Younus, H.A., Al-Rashida, M., Arshad, Z., Maryum, T., Gilani, M.A., Alharthi, A.I., Iqbal, J. Sulfonyl hydrazones derived from 3-formylchromone as non-selective inhibitors of MAO-A and MAO-B: Synthesis, molecular modelling and in-silico ADME evaluation <i>Bioorganic Chemistry</i> , 75, 291-302 (2017).
2550.	2.	Xiao, X., Zhang, X.-X., Zhan, M.-M., Cheng, K., Li, S., Xie, Z., Liao, C. Design, synthesis and bioevaluation of novel 2,3-dihydro-1H-inden-1-amine derivatives as potent and selective human monoamine oxidase B inhibitors based on rasagiline <i>European Journal of Medicinal Chemistry</i> , 145, 588-593 (2018).
2551.	3.	Tripathi, A.C., Upadhyay, S., Paliwal, S., Saraf, S.K. Privileged scaffolds as MAO inhibitors: Retrospect and prospects <i>European Journal of Medicinal Chemistry</i> , 145, 445-497 (2018).
2552.	4.	Zhu, J., Sun, S., Cheng, J. Rh(III)-catalyzed [4 + 1]-annulation of azobenzenes with α -carbonyl sulfoxonium ylides toward 3-acyl-(2H)-indazoles <i>Tetrahedron Letters</i> , 59 (23), 2284-2287 (2018).
2553.	5.	Is, Y.S., Durdagi, S., Aksoydan, B., Yurtsever, M. Modeling Approaches and Application of Binary QSAR Models for Prediction of Their Therapeutic Activity, Pharmacokinetic and Toxicity Properties <i>ACS Chemical Neuroscience</i> , 9 (7), 1768-1782 (2018).
2554.	6.	Oja, M., Maran, U. pH-permeability profiles for drug substances: Experimental detection, comparison with human intestinal absorption and modelling <i>European Journal of Pharmaceutical Sciences</i> , 123, 429-440 (2018).
2555.	7.	Zhang, S.-G., Liang, C.-G., Zhang, W.-H. Recent advances in indazole-containing derivatives: Synthesis and biological perspectives <i>Molecules</i> , 23 (11), art. 23112783 (2018).
2556.	8.	Ramsay, R.R., Albrecht, A. Kinetics, mechanism, and inhibition of monoamine oxidase <i>Journal of Neural Transmission</i> , 125 (11), 1659-1683 (2018).
2557.	9.	Can, N.Ö. Investigation of monoamine oxidase inhibitory activities of new chalcone derivatives <i>Cukurova Medical Journal</i> , 43 (2), 371-380 (2018).
2558.	10.	Tripathi, R.K.P., Ayyannan, S.R. Monoamine oxidase-B inhibitors as potential neurotherapeutic agents: An overview and

		update Medicinal Research Reviews, 39 (5), 1603-1706 (2019).
2559.	11.	Bębenek, E., Chrobak, E., Marciniak, K., Kadela-Tomanek, M., Trynda, J., Wietrzyk, J., Boryczka, S. Biological activity and in silico study of 3-modified derivatives of betulin and betulinic aldehyde International Journal of Molecular Sciences, 20 (6), art. 1372 (2019).
2560.	12.	Chavarria, D., Cagide, F., Pinto, M., Gomes, L.R., Low, J.N., Borges, F. Development of piperic acid-based monoamine oxidase inhibitors: Synthesis, structural characterization and biological evaluation Journal of Molecular Structure, 1182, 298-307 (2019).
2561.	13.	Cheng, K., Li, S., Lv, X., Tian, Y., Kong, H., Huang, X., Duan, Y., Han, J., Xie, Z., Liao, C. Design, synthesis and biological evaluation of novel human monoamine oxidase B inhibitors based on a fragment in an X-ray crystal structure Bioorganic and Medicinal Chemistry Letters, 29 (8), 1012-1018 (2019).
2562.	14.	Guglielmi, P., Carradori, S., Ammazalorso, A., Secci, D. Novel approaches to the discovery of selective human monoamine oxidase-B inhibitors: is there room for improvement? Expert Opinion on Drug Discovery, 14 (10), 995-1035 (2019).
2563.	15.	Naidoo, D., Roy, A., Slavětinská, L.P., Chukwujekwu, J.C., Gupta, S., Van Staden, J. New role for crinamine as a potent, safe and selective inhibitor of human monoamine oxidase B: In vitro and in silico pharmacology and modeling Journal of Ethnopharmacology, 248, art. 112305 (2020).
2564.	16.	Tao, C., Hu, S.-Q., Chen, J., Chen, Y.-J., Sun, K.-H., Cui, G.-Z., Ma, M., Wu, Z.-Z. Highly efficient synthesis and monoamine oxidase B inhibitory profile of demethyleneberberine, columbamine and palmatine Neurochemistry International, 139, art. no. 104807 (2020).
2565.	17.	Manzoor, S., Hoda, N. A comprehensive review of monoamine oxidase inhibitors as Anti-Alzheimer's disease agents: A review European Journal of Medicinal Chemistry, 206, art. no. 112787 (2020).
2566.	18.	Is, Y.S., Aksoydan, B., Senturk, M., Yurtsever, M., Durdagi, S. Integrated Binary QSAR-Driven Virtual Screening and in Vitro Studies for Finding Novel hMAO-B-Selective Inhibitors Journal of Chemical Information and Modeling, 60 (8), 4047-4055 (2020).
2567.	19.	Murugan, N.A.; Muvva, C.; Jeyarajpandian, C.; Jeyakanthan, J.; Subramanian, V. Performance of Force-Field- and Machine Learning-Based Scoring Functions in Ranking MAO-B Protein-Inhibitor Complexes in Relevance to Developing Parkinson's Therapeutics International Journal of Molecular Sciences, 21 (20), art. no. 7648 (2020).
2568.	20.	Mani, V., Sajid, S., Rabbani, S.I., Alqasir, A.S., Alharbi, H.A., Alshumaym, A. Anxiolytic-like and antidepressant-like effects of ethanol extract of Terminalia chebula in mice Journal of Traditional and Complementary Medicine, doi: 10.1016/j.jtcme.2021.04.003 (2021).
C.83. The effect of path length on the measurement accuracies of wine chemical parameters by UV, visible and near infrared spectroscopy. N.Molla, I.Bakardzhiyski, Y.Manolova, V.Bambalov, D.Cozzolino & L.Antonov; <i>Food Analytical Methods</i> , 10 , 1156-1163 (2017)		
2569.	1.	Phetpan, K., Udompetakul, V., Sirisomboon, P. Informative selection of spectra obtained from an online sugar content prediction system of sugarcane by using statistical index Thai Society of Agricultural Engineering Journal, 25 (2), 19-27 (2019).
2570.	2.	Li, X., Tsuta, M., Tanaka, F., Tsukahara, M., Tsukahara, K. Assessment of Japanese Awamori Spirits Using UV-VIS Spectroscopy Food Analytical Methods, 13 (3), 726-734 (2020).
2571.	3.	Udompetakul, V., Phetpan, K., Sirisomboon, P.

		Development of the partial least-squares model to determine the soluble solids content of sugarcane billets on an elevator conveyor Measurement: Journal of the International Measurement Confederation, 167, art. no. 107898 (2021).
2572.	4.	Ferrer-Gallego, R., Rodríguez-Pulido, F.J., Toci, A.T., García-Estevéz, I. Phenolic Composition, Quality and Authenticity of Grapes and Wines by Vibrational Spectroscopy Food Reviews International, doi: 10.1080/87559129.2020.1752231 (2021).
C.84. An alternative for the calculation of derivative spectra in the near-infrared spectroscopy. <u>L.Antonov</u> ; <i>Journal of Near Infrared Spectroscopy</i> , 25 , 145-148 (2017)		
2573.	1.	Pasquini, C. Near infrared spectroscopy: A mature analytical technique with new perspectives – A review <i>Analytica Chimica Acta</i> , 1026, 8-36 (2018).
2574.	2.	Zhang, T.-T., Li, B., Cai, G.-M., Li, J.-H., Ma, Y.-J., Ma, L., Zhao, L.-L., Wu, S.-E. Study on Spectral Data Processing Methods of New Type High-Density Grating Spectrometer Made in China [国产新型高密度光栅光谱仪数据处理方法研究] <i>Guang Pu Xue Yu Guang Pu Fen Xi/Spectroscopy and Spectral Analysis</i> , 39 (8), 2651-2656 (2019).
2575.	3.	Wang, C., Li, P.-C., Yang, K., Zhang, T.-T., Liu, Y.-L., Li, J.-H. Rapid Detection of Tobacco Quality Grade and Analysis of Grade Characteristics by Using Near-Infrared Spectroscopy [近红外光谱烟叶质量等级快速检测与等级特征分析] <i>Guang Pu Xue Yu Guang Pu Fen Xi/Spectroscopy and Spectral Analysis</i> , 41 (3), 943-947 (2021).
C.85. Molecular insight into inclusion complex formation of curcumin and calix[4]arene. <u>S.Angelova & L.Antonov</u> ; <i>ChemistrySelect</i> , 2 , 9653-9662 (2017)		
2576.	1.	Slavova-Kazakova, A.K., Koleva, L., Kancheva, V.D., Delogu, G. Comparative study of antioxidant potential of curcumin and its degradation products–vanillin, ferulic acid and dehydrozingerone <i>Bulgarian Chemical Communications</i> , 50, 158–163 (2018).
2577.	2.	Upadhyay, J., Parekh, H. Synthesis of supramolecular receptors for amino acid recognition <i>Current Chemistry Letters</i> , 8 (4), 225-237 (2019).
2578.	3.	Fan, X., Guo, X. Development of calixarene-based drug nanocarriers <i>Journal of Molecular Liquids</i> , 325, art. no. 115246 (2021)
C.86. The possible tautomerism of the potential rotary switch 2-(2-(2-Hydroxy-4-nitrophenyl)hydrazono)-1-phenylbutane-1,3-dione. <u>S.Hristova, F.S.Kamounah, N.Molla, P.E.Hansen, D.Nedeltcheva & L.Antonov</u> ; <i>Dyes and Pigments</i> , 144 , 249-261 (2017)		
2579.	1.	Lyčka, A. 15N NMR study of (E)- and (Z)-2-(2-(2-hydroxy-4-nitrophenyl)hydrazono)-1-phenylbutane-1,3-diones. A suitable method for analysis of hydrazone isomers <i>Dyes and Pigments</i> , 150, 181-184 (2018).
2580.	2.	Kumar, S.S., Sreepriya, R.S., Biju, S., Sadasivan, V. Synthesis, crystal structure and spectroscopic studies of trivalent Fe(III) and mixed valent ion-pair Co(II,III) complexes with 5-(2-(2-hydroxyphenyl)hydrazono)-2,2-dimethyl-4,6-dione <i>Journal of Molecular Structure</i> , 1197, 235-243 (2019).
2581.	3.	Gurbanov, A.V., Kuznetsov, M.L., Demukhamedova, S.D., Alieva, I.N., Godjaev, N.M., Zubkov, F.I., Mahmudov, K.T., Pombeiro, A.J.L. Role of substituents on resonance assisted hydrogen bonding: Vs. intermolecular hydrogen bonding <i>CrystEngComm</i> , 22 (4), 628-633 (2020).
C.87. Chemical profiling of Bulgarian rose absolute (<i>Rosa damascena</i> Mill.) using gas chromatography–mass spectrometry and trimethylsilyl derivatives.		

D.Nedeltcheva-Antonova, P.Ctoicheva & L.Antonov; Industrial Crops and Products, 108, 36-43 (2017)		
2582.	1.	Yi, F., Sun, J., Bao, X., Ma, B., Sun, M. Influence of molecular distillation on antioxidant and antimicrobial activities of rose essential oils LWT, 102, 310-316 (2019).
2583.	2.	Cui, L., Chen, Y., Li, M., Liu, T., Yang, P., Guo, L., Wang, X. Detection of water variation in rosebuds during hot-air drying by LF-NMR and MRI Drying Technology, 38 (3), 304-312 (2020).
2584.	3.	Mohsen, E., Younis, I.Y., Farag, M.A. Metabolites profiling of Egyptian Rosa damascena Mill. flowers as analyzed via ultra-high-performance liquid chromatography-mass spectrometry and solid-phase microextraction gas chromatography-mass spectrometry in relation to its anti-collagenase skin effect Industrial Crops and Products, 155, art. no. 112818 (2020).
2585.	4.	Martínez, M.-C., Santiago, J.-L., Boso, S., Gago, P., Álvarez-Acero, I., De Vega, M.-E., Martínez-Bartolomé, M., Álvarez-Nogal, R., Molist, P., Caser, M., Scariot, V., Gómez-García, D. Narcea—an unknown, ancient cultivated rose variety from northern Spain Horticulture Research, 7 (1), art. no. 44 (2020).
2586.	5.	Li, J., Qian, C., Duan, T., Cai, T., Xiang, Z. Determination of the Volatiles in Rosa chinensis Cultivars by Comprehensive Two-Dimensional Gas Chromatography (GC × GC) and Quadrupole Time-of-Flight (QTOF) Mass Spectrometry (MS) Analytical Letters, 54 (4), 573-589 (2021).
2587.	6.	Cebi, N., Arici, M., Sagdic, O. The famous Turkish rose essential oil: Characterization and authenticity monitoring by FTIR, Raman and GC–MS techniques combined with chemometrics Food Chemistry, 354, art. no. 129495 (2021).
2588.	7.	Petrova, I., Petkova, N., Slavchev, A., Petrova, T. Structural effects of selected hydrocolloids on Ca(II)-alginate beads containing hydrosol from Rosa damascena Mill IOP Conference Series: Materials Science and Engineering, 1031 (1), art. no. 012106 (2021).
2589.	8.	Kanani, M., Chamani, E., Shokouhian, A.A., Torabi-Giglou, M. Investigation on quality changes of damask rose essential oil during different phenology stages in Oroumieh region Iranian Journal of Horticultural Science, 51 (4), 955-963 (2021).
2590.	9.	Kanani, M., Chamani, E., Shokouhian, A.A., Torabi-Giglou, M. Essential oil content and composition in various ecotypes of damask rose from different ecological regions Acta Scientiarum Polonorum, Hortorum Cultus, 20 (1), 61-69 (2021).
2591.	10.	Ghavam, M., Afzali, A., Manconi, M., Bacchetta, G., Manca, M.L. Variability in chemical composition and antimicrobial activity of essential oil of Rosa × damascena Herrm. from mountainous regions of Iran Chemical and Biological Technologies in Agriculture, doi: 10.1186/s40538-021-00219-6 (2021).
2592.	11.	Ghavam, M. Relationships of irrigation water and soil physical and chemical characteristics with yield, chemical composition and antimicrobial activity of Damask rose essential oil PLoS ONE, 16 (4 April), art. no. e0249363 (2021).
C.88. Subnanomolar indazole-5-carboxamide inhibitors of monoamine oxidase B (MAO-B) continued: indications of iron binding, experimental evidence for optimised solubility and brain penetration. N.T.Tzvetkov & L.Antonov; Journal of Enzyme Inhibition and Medicinal Chemistry, 32, 960-967 (2017)		
2593.	1.	Savelieff, M.G., Nam, G., Kang, J., Lee, H.J., Lee, M., Lim, M.H. Development of multifunctional molecules as potential therapeutic candidates for Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis in the last decade

		Chemical Reviews, 119 (2), 1221-1322 (2018).
2594.	2.	Repsold, B.P., Malan, S.F., Joubert, J., Oliver, D.W. Multi-targeted directed ligands for Alzheimer's disease: design of novel lead coumarin conjugates SAR and QSAR in Environmental Research, 29 (3), 231-255 (2018).
2595.	3.	Tripathi, R.K.P., Ayyannan, S.R. Monoamine oxidase-B inhibitors as potential neurotherapeutic agents: An overview and update Medicinal Research Reviews, 39 (5), 1603-1706 (2019).
2596.	4.	Li X, Yu Y, Tu Z. Pyrazole Scaffold Synthesis, Functionalization, and Applications in Alzheimer's Disease and Parkinson's Disease Treatment (2011–2020) Molecules, 26 (5), art. no. 1202 (2021).
C.89. Tautomerism of N-(3,4-dichlorophenyl)-1H-indazole-5-carboxamide - a new selective, highly potent and reversible MAO-B inhibitor. N.T.Tzvetkov, H.-G.Stammler & L.Antonov; <i>Journal of Molecular Structure</i> , 1149 , 273-281 (2017)		
2597.	1.	Zhou, S., Chen, G., Huang, G. Design, synthesis and biological evaluation of lazabemide derivatives as inhibitors of monoamine oxidase Bioorganic and Medicinal Chemistry, 26 (17), 4863-4870 (2018).
2598.	2.	Chaudhary, R.P., Gautam, P., Gautam, D., Mittal, I. Ultrasound assisted regioselective synthesis, photophysical and structural studies of 1-substituted indazol-4(5H)-ones and enamindiketones of dimedone Journal of Molecular Structure, 1228, art. no. 129710 (2021).
C.90. Solvent Control of the Intramolecular Proton Transfer: Is 4-Hydroxy-3-(piperidin-1-ylmethyl)-1-naphthaldehyde a proton crane? Y.Manolova, H.Marciniak, S.Tschierlei, F.Fennel, F.S.Kamounah, S.Lochbrunner & L.Antonov; <i>Physical Chemistry Chemical Physics</i> , 19 , 7316-7325 (2017)		
2599.	1.	Durbeej, B., Wang, J., Oruganti, B. Molecular Photoswitching Aided by Excited-State Aromaticity ChemPlusChem, 83 (11), 958-967 (2018).
C.91. Dynamics of Excited State Proton Transfer in Nitro Substituted 10-Hydroxybenzo[h]quinolines. H.Marciniak, S.Hristova, V.Deneva, F.S.Kamounah, P.E.Hansen, S.Lochbrunner & L.Antonov; <i>Physical Chemistry Chemical Physics</i> , 19 , 26621-26629 (2017) PCCP Hot Articles Thematic Collection		
2600.	1.	Suzuki, N., Suda, K., Yokogawa, D., Kitoh-Nishioka, H., Irle, S., Ando, A., Abegão, L.M.G., Kamada, K., Fukazawa, A., Yamaguchi, S. Near infrared two-photon-excited and -emissive dyes based on a strapped excited-state intramolecular proton-transfer (ESIPT) scaffold Chemical Science, 9 (10), 2666-2673 (2018).
2601.	2.	He, Y., Li, C., Jia, X., Ma, Q., Liu, Y., Liu, Y., Yang, Y. A theoretical study on the effect of cyano group on the proton transfer process of 10-hydroxybenzo[h]quinoline Journal of Luminescence, 209, 295-301 (2019).
2602.	3.	Rohman, M.A., Sutradhar, D., Bangal, P.R., Chandra, A.K., Mitra, S. Excited State Decay Dynamics in 3-Formyl-4-hydroxy Benzoic Acid: Understanding the Global Picture of an ESIPT-Driven Multiple-Emissive Species ChemistrySelect, 4 (22), 6702-6712 (2019).
2603.	4.	Gaynor, J.D. Correlated Electronic and Vibrational Motion: A Direct Perspective Through Multidimensional Electronic-Vibrational Spectroscopy PhD Thesis, University of Washington, USA (2019).
2604.	5.	Xue, J., Guo, X., Wang, X., Xiao, Y. Density functional theory studies on cytosine analogues for inducing double-proton transfer with guanine Scientific Reports, 10 (1), art. no. 9671 (2020).
2605.	6.	Ni, M., Su, S., Fang, H.

		Substituent control of photophysical properties for excited-state intramolecular proton transfer (ESIPT) of o-LHBDI derivatives: a TD-DFT investigation Journal of Molecular Modeling, 26 (5), art. no. 108 (2020).
2606.	7.	Fang, H. A theoretical study on water-assisted excited state double proton transfer process in substituted 2,7-diazaindole-H ₂ O complex Theoretical Chemistry Accounts, 139 (8), art. no. 139 (2020).
2607.	8.	Cao, B., Li, Y., Zhou, Q., Li, B., Su, X., Yin, H., Shi, Y. Synergistically improving myricetin ESIPT and antioxidant activity via dexterously trimming atomic electronegativity Journal of Molecular Liquids, 325, art. no. 115272 (2021).
C.92. Oxime-containing acetylcholinesterase reactivators and their complexes with Pd(II) and Pt(II) ions: recent developments. I.Pantcheva, A.Nedzhib & L.Antonov; <i>Turkish Journal of Chemistry</i> , 42 , 418-428 (2018)		
C.93. A concept for stimulated proton transfer in 1-(phenyldiazenyl)naphthalen-2-ols. S.Hristova, V.Deneva, M.Pittelkow, A.Crochet, F.S.Kamounah, K.M.Fromm, P.E.Hansen & L.Antonov; <i>Dyes and Pigments</i> , 156 , 91-99 (2018)		
2608.	1.	Liu, J., Zhong, X., Wu, S., Li, Y., Xu, Y., Zeng, H. Green synthesis and characterization for 8-hydroxyquinoline magnesium Materials Research Express, 6 (5), art. 055101 (2019).
2609.	2.	Chen, Z., Li, Y., Guan, Y., Li, H. Rational design of the nonlinear optical materials dinaphtho[2,3-b:2',3'-d]thiophene-5,7,12,13-tetraone (DNTTRA) and its phenyldiazenyl derivatives using first-principles calculations Journal of Computational Electronics, 18 (1), 6-15 (2019).
2610.	3.	Chen, Z., Zhang, Y., He, Z., Guan, Y., Li, Y., Li, H. Electronic Absorption Spectra and Third-Order Nonlinear Optical Property of Dinaphtho[2,3-b:2',3'-d]Thiophene-5,7,12,13- Tetraone (DNTTRA) and Its Phenyldiazenyl Derivatives: DFT Calculations Computational Chemistry, 8, 43-60 (2020).
2611.	4.	Darugar, V., Vakili, M., Tayyari, S.F. Electronic transport behavior of 1-(Phenyldiazenyl)naphthalen-2-ol and its derivatives as optical molecular switches: A first-principles approach Optik, 236, art. no. 166475 (2021).
C.94. Comment on "Learning To Read Spectra: Teaching Decomposition with Excel in a Scientific Writing Course". L.Antonov; <i>Journal of Chemical Education</i> , 95 , 1679-1681 (2018)		
C.95. (Pyrrolo-pyridin-5-yl)benzamides: BBB permeable monoamine oxidase B inhibitors with neuroprotective effect on cortical neurons. N.T.Tzvetkov, H.-G.Stammle, S.Hristova, A.G.Atanasov & L.Antonov; <i>European Journal of Medicinal Chemistry</i> , 162 , 793-809 (2019)		
2612.	1.	Guglielmi, P., Carradori, S., Ammazalorso, A., Secci, D. Novel approaches to the discovery of selective human monoamine oxidase-B inhibitors: is there room for improvement? Expert Opinion on Drug Discovery, 14 (10), 995-1035 (2019).
2613.	2.	Hagenow, J., Hagenow, S., Grau, K., Khanfar, M., Hefke, L., Proschak, E., Stark, H. Reversible small molecule inhibitors of MAO A and MAO B with anilide motifs Drug Design, Development and Therapy, 14, 371-393 (2020).
2614.	3.	Xie, S.-S., Liu, J., Tang, C., Pang, C., Li, Q., Qin, Y., Nong, X., Zhang, Z., Guo, J., Cheng, M., Tang, W., Liang, N., Jiang, N. Design, synthesis and biological evaluation of rasagiline-clorgyline hybrids as novel dual inhibitors of monoamine oxidase-B and amyloid- β aggregation against Alzheimer's disease European Journal of Medicinal Chemistry, 202, art. no. 112475 (2020).
C.96. Quantitative Characterization of Arnicae flos by RP-HPLC-UV and NIR Spectroscopy. D.Ivanova, V.Deneva, D.Zheleva-Dimitrova, V.Balabanova-Bozushka, D.Nedeltcheva, R.Gevrenova & L.Antonov; <i>Foods</i> , 8 , art. 9 (2019)		

2615.	1.	Olesińska, K., Sugier, D. Row spacing and the term of harvest of flower heads as determinants of crop yield and chemical composition of raw material of chamisso arnica (arnica chamissonis less.) <i>Scientiarum Polonorum Acta: Agricultura</i> , 19 (2), 1-13 (2020).
2616.	2.	Ribeiro, J.S., Salva, T.D.J.G., Silvarolla, M.B. Prediction of a wide range of compounds concentration in raw coffee beans using NIRS, PLS and variable selection <i>Food Control</i> , 125, art. no. 107967 (2021).
C.97. DFT study of hydrazone-based molecular switches: the effect of different stators on the on/off state distribution. S.Angelova, V.Paskaleva, N.Kochev & L.Antonov; <i>Molecular Physics</i> , 117 , 1604-1612 (2019)		
2617.	1.	Lawrence, M.A.W., Lorraine, S.C., Wilson, K.-A., Wilson, K. Review: Voltammetric properties and applications of hydrazones and azo moieties <i>Polyhedron</i> , 173, art. 114111 (2019).
2618.	2.	Császár, A.G., Hochlaf, M. Special issue: atoms, molecules, and clusters in motion <i>Molecular Physics</i> , 117 (13), 1587-1588 (2019).
C.98. Attaching tweezers like ionophore to a proton crane: theoretical design of new tautomeric sensors. V.Deneva & L.Antonov; <i>Molecular Physics</i> , 117 , 1613-1620 (2019)		
2619.	1.	Császár, A.G., Hochlaf, M. Special issue: atoms, molecules, and clusters in motion <i>Molecular Physics</i> , 117 (13), 1587-1588 (2019).
2620.	2.	Masumian, E., Nowroozi, A., Nikparsa, P., Zargari, F. Theoretical Evidence for the Resonance-Inhibited Hydrogen Bonding (RIHB) in Enol-Imine Tautomers <i>Chemical Physics</i> , doi: 10.1016/j.chemphys.2021.111255 (2021).
C.99. Tautomerism in azo dyes: border cases of azo and hydrazo tautomers as possible NMR reference compounds. V.Deneva, A.Lyčka, S.Hristova, A.Crochet, K.M.Fromm & L.Antonov; <i>Dyes and Pigments</i> , 165 , 157-163 (2019)		
2621.	1.	Szadkowski, B., Marzec, A., Rogowski, J., Maniukiewicz, W., Zaborski, M. Insight into the formation mechanism of azo dye-based hybrid colorant: Physico-chemical properties and potential applications <i>Dyes and Pigments</i> , 167, 236-244 (2019).
2622.	2.	Kamble, S.S., Shankarling, G.S. Room temperature diazotization and coupling reaction using a DES-ethanol system: A green approach towards the synthesis of monoazo pigments (Supplementary Information) <i>Chemical Communications</i> , 55 (42), 5970-5973 (2019).
2623.	3.	Porobić, S. J. Synthesis, structure and properties of novel azo dyes based on 6-hydroxy-4-methyl-2-oxo-1,2- dihydropyridine-3-carboxamide Dissertation, University of Belgrade, Serbia (2020).
2624.	4.	Zhang, T., Zhang, J., Zou, D., Cheng, F., Su, R. A promising Pd/polyaniline/foam nickel composite electrode for effectively electrocatalytic degradation of methyl orange in wastewater <i>Desalination and Water Treatment</i> , 189, 386-394 (2020).
2625.	5.	Zhao, X.-L., Wang, M., Geng, J., Huang, W. Fenton-like reactions for pyrazolone ester based heterocyclic dyes with reversible hydrazone-azo tautomerism <i>Polyhedron</i> , 202, art. no. 115208 (2021).
2626.	6.	Zatloukal, F., Achbergerová, E., Gergela, D., Rouchal, M., Dastychová, L., Prucková, Z., Vícha, R. Supramolecular properties of amphiphilic adamantylated azo dyes <i>Dyes and Pigments</i> , 192, art. no. 109420 (2021).
2627.	7.	Matovic, L., Ladarevic, J., Vitnik, Ž., Vitnik, V., Mijin, D. A detailed UV-Vis spectral investigation of six azo dyes derived from benzoic- and cinnamic

		acids: experimental and theoretical insight Comptes Rendus Chimie, 24 (2), 267-280 (2021).
C.100. Isomerization and aggregation of 2-(2-(2-hydroxy-4-nitrophenyl) hydrazono)-1-phenylbutane-1,3-dione: Recent evidences from theory and experiment. S.Hristova, F.S.Kamounah, A.Crochet, P.E.Hansen, K.M.Fromm, D.Nedeltcheva & <u>L.Antonov</u> ; <i>Journal of Molecular Liquids</i> , 283 , 242-248 (2019)		
2628.	1.	Gurbanov, A.V., Kuznetsov, M.L., Demukhamedova, S.D., Alieva, I.N., Godjaev, N.M., Zubkov, F.I., Mahmudov, K.T., Pombeiro, A.J.L. Role of substituents on resonance assisted hydrogen bonding: Vs. intermolecular hydrogen bonding CrystEngComm, 22 (4), 628-633 (2020).
C.101. Tautomerism in azo and azomethyne dyes: When and if theory meets experiment. <u>L.Antonov</u> ; <i>Molecules</i> , 24 , art. 2252 (2019)		
2629.	1.	Siskos, M.G., Varras, P.C., Gerothanassis, I.P. DFT calculations of O—H···O 1H NMR chemical shifts in investigating enol-enol tautomeric equilibria: Probing the impacts of intramolecular hydrogen bonding vs stereoelectronic interactions Tetrahedron, 76 (9), art. 130979 (2020).
2630.	2.	Obasuyi, A.R., Glossman-Mitnik, D., Flores-Holguín, N. Theoretical modifications of the molecular structure of Aurantinidin and Betanidin dyes to improve their efficiency as dye-sensitized solar cells Journal of Computational Electronics, 19 (2), 507-515 (2020).
2631.	3.	Korzec, M., Malarz, K., Mrozek-Wilczkiewicz, A., Rzycka-Korzec, R., Schab-Balcerzak, E., Polański, J. Live cell imaging by 3-imino-(2-phenol)-1,8-naphthalimides: The effect of ex vivo hydrolysis Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 238, art. no. 118442 (2020).
2632.	4.	Dey, G., Chakraborty, A. Tautomers of homophthalic anhydride in the ground and excited electronic states: analysis through energy, hardness and vibrational signatures Journal of Molecular Modeling, 26 (7), art. no. 173 (2020).
2633.	5.	Rzycka-Korzec R. Projektowanie i synteza pochodnych imidów aromatycznych o potencjalnych zastosowaniach w farmacji lub optoelektronice Praca doktorska. Katowice Uniwersytet Śląski (2020).
2634.	6.	Neuerová, Z., Lyčka, A. 15N, 13C and 1H NMR study of tautomerism in 2-(phenyldiazenyl)-4-substituted naphthalen-1-ols. Influence of substitution in passive components on azo-hydrazo tautomerism Dyes and Pigments, 188, art. no. 109149 (2021).
2635.	7.	Zatloukal, F., Achbergerová, E., Gergela, D., Rouchal, M., Dastychová, L., Prucková, Z., Vícha, R. Supramolecular properties of amphiphilic adamantylated azo dyes Dyes and Pigments, 192, art. no. 109420 (2021).
2636.	8.	Dey G, Chakraborty A. Conformational Landscape and Tautomerisation in (Z)-4-(hydroxymethylene) isochroman-1,3-dione: Analysis through Energy and Hardness profiles Journal of Molecular Structure, doi: 0.1016/j.molstruc.2021.130859 (2021).
2637.	9.	Cartechini, L., Miliani, C., Nodari, L., Rosi, F., Tomasin, P. The chemistry of making color in art Journal of Cultural Heritage, doi: 10.1016/j.culher.2021.05.002 (2021).
C.102. Interplay between Conformational and Solvent Effects in UV-Visible Absorption Spectra: Curcumin Tautomers as Case Study. A.Puglisi, T.Giovannini, <u>L.Antonov</u> & C.Cappelli; <i>Physical Chemistry Chemical Physics</i> , 21 , 15504 (2019)		
2638.	1.	Braga, G., Campanholi, K., Ferreira, S., Calori, I. R., Oliveira, J. H., Vanzin, D. Bruschi, M. L., Pontes, R. M., Março, P. H., Tessaro, A. L., Hioka, N., Caetano, W. Tautomeric and

		Aggregational Dynamics of Curcumin-Supersaturated Pluronic Nanocarriers ACS Applied Polymer Materials, 2 (11), 4493-4511 (2020)
2639.	2.	Di Nezza, F., Caruso, C., Costagliola, C., Ambrosone, L. Reaction-diffusion model as framework for understanding the role of riboflavin in "eye defence" formulations RSC Advances, 10 (25), 14965-14971 (2020).
2640.	3.	Lehr, A., Jäger, M., Gleditsch, M., Rivic, F., Schäfer, R. Optical Absorption of Atomically-Precise Sn14Nanoclusters: The Antagonistic Interplay of Ligand Stabilization, Molecular Symmetry, and Solvatochromism Journal of Physical Chemistry Letters, 11 (18), 7827-7831 (2020).
2641.	4.	Prasad, R., Gupta, K.M., Poornachary, S.K., Dalvi, S.V. Elucidating the polymorphic behavior of curcumin during antisolvent crystallization: Insights from Raman spectroscopy and molecular modeling Crystal Growth and Design, 20 (9), 6008-6023 (2020).
2642.	5.	Abou-Hatab, S., Carnevale, V., Matsika, S. Modeling solvation effects on absorption and fluorescence spectra of indole in aqueous solution Journal of Chemical Physics, 154 (6), art. no. 064104 (2021).
2643.	6.	Xi, W., Zhai, J., Tian, L., Zhou, S., Zhang, Z. Curcumin-Cu ²⁺ complex generated on carbon nanotubes for electrocatalytic application toward electrooxidation of hydroxylamine Microchemical Journal, 161, art. no. 105792 (2021).
2644.	7.	Haldar, S., Alam, M.M. Designing curcumin-based non-linear optically active compounds Molecular Physics, 119 (8), art. no. e1876265 (2021).
2645.	8.	Halevas, E., Arvanitidou, M., Mavroidi, B., Hatzidimitriou, A.G., Politopoulos, K., Alexandratou, E., Pelecanou, M., Sagnou, M. A novel curcumin gallium complex as photosensitizer in photodynamic therapy: Synthesis, structural and physicochemical characterization, photophysical properties and in vitro studies against breast cancer cells Journal of Molecular Structure, 1240, art. no. 130485 (2021).
2646.	9.	Shanthamma, S., Preethi, R., Moses, J.A., Anandharamakrishnan, C. 4D Printing of Sago Starch with Turmeric Blends: A Study on pH-Triggered Spontaneous Color Transformation ACS Food Science & Technology, 1 (4), 669-679 (2021).
2647.	10.	Philip, A., Ghiyasi, R., Karppinen, M. Photoactive Thin-Film Structures of Curcumin, TiO ₂ and ZnO Molecules, 26, art. no. 3214 (2021).
C.103. Carboxamides vs. methanimines: Crystal structures, binding interactions, photophysical studies, and biological evaluation of (indazole-5-yl)methanimines as monoamine oxidase B and acetylcholinesterase inhibitors. N.T.Tzvetkov, H.-G.Stammmler, M.Georgieva, D.Russo, N.Faraone, A.Balacheva, S.Hristova, A.G.Atanasov L.Milella, L.Antonov & M.Gastereich; <i>European Journal of Medicinal Chemistry</i> , 179 , 404 (2019)		
2648.	1.	Hagenow, J., Hagenow, S., Grau, K., Khanfar, M., Hefke, L., Proschak, E., Stark, H. Reversible small molecule inhibitors of MAO A and MAO B with anilide motifs Drug Design, Development and Therapy, 14, 371-393 (2020).
2649.	2.	Kong, Z., Sun, D., Jiang, Y., Hu, Y. Design, synthesis, and evaluation of 1, 4-benzodioxan-substituted chalcones as selective and reversible inhibitors of human monoamine oxidase B Journal of Enzyme Inhibition and Medicinal Chemistry, 35 (1), 1513-1523 (2020).
2650.	3.	Canale, V., Grychowska, K., Kurczab, R., Ryng, M., Keeri, A.R., Satała, G., Olejarz-Maciej, A., Koczurkiewicz, P., Drop, M., Blicharz, K., Piska, K., Pękala, E., Janiszewska, P., Krawczyk, M., Walczak, M., Chaumont-Dubel, S., Bojarski, A.J., Marin, P., Popik, P., Zajdel, P. A dual-acting 5-HT ₆ receptor inverse agonist/MAO-B inhibitor displays glioprotective and pro-cognitive properties European Journal of Medicinal Chemistry, 208, art. no. 112765 (2020).

C.104. Tautomerism as primary signaling mechanism in metal sensing: the case of amide group. V.Deneva, G.Dobrikov, A.Crochet, D.Nedeltcheva, K.M.Fromm & <u>L.Antonov</u> ; <i>Beilstein Journal of Organic Chemistry</i> , 15 , 1898 (2019)		
C.105. Using Raman Spectroscopy as a Fast Tool to Classify and Analyze Bulgarian Wines - A Feasibility Study. V.Deneva, I.Bakardzhiyski, K.Bambalov, D.Antonova, D.Tsobanova, V.Bambalov, D.Cozzolino & <u>L.Antonov</u> ; <i>Molecules</i> , 25 , art. 170 (2020)		
2651.	1.	Ríos-Reina, R., Camiña, J.M., Callejón, R.M., Azcarate, S.M. Spectralprint techniques for wine and vinegar characterization, authentication and quality control: Advances and projections TrAC - Trends in Analytical Chemistry, 134, art. no. 116121 (2021).
C.106. Tautomerism and Self-Association in the Solution of New Pinene-Bipyridine and Pinene-Phenanthroline Derivatives. A.B.Solea, I.Cornu, V.Deneva, A.Crochet, K.M.Fromm, <u>L.Antonov</u> , C.Allemand & O.Mamula; <i>Molecules</i> , 25 , art. 298 (2020)		
C.107. New insights into coordination chemistry of Monensin A towards divalent metal ions. I.Pantcheva, A.Nedzhib, <u>L.Antonov</u> , B.Gyurcsik & P.Dorkov; <i>Inorganica Chimica Acta</i> , 505 , art. 119481 (2020)		
C.108. Chercher de l'eau: The switching mechanism of the rotary switch ethyl-2-(2-(quinolin-8-yl)hydrazono)-2-(pyridin-2-yl)acetate. V.Deneva, N.G.Vassilev, S.Hristova, D.Yordanov, Y.Hayashi, S.Kawauchi, F.Fennel, T.Völzer, S.Lochbrunner & <u>L.Antonov</u> ; <i>Computational Materials Science</i> , 177 , art. 109570 (2020)		
2652.	1.	Kurutos, A., Kamounah, F.S., Dobrikov, G.M., Pittelkow, M., Sauer, S.P.A., Hansen, P.E. Azo-hydrazone molecular switches: Synthesis and NMR conformational investigation Magnetic Resonance in Chemistry, doi: 10.1002/mrc.5164 (2021).
C.109. Indirect solvent assisted tautomerism in 4-substituted phthalimide 2-hydroxy-Schiff bases. D.Yordanov, V.Deneva, A.Georgiev, A.Crochet, K.M. Fromm & <u>L.Antonov</u> ; <i>Spectrochimica Acta</i> , 237A , art. 118416 (2020)		
2653.	2.	Panigrahi, S., Biswal, S.P., Misra, P.K. Disclosure of the solvatochromism and the reversal switch in some tailor-made electron push-push anils Journal of Molecular Liquids, 329, art. no. 115536 (2021).
2654.	3.	Georgiev, N.I., Bryaskova, R.G., Ismail, S.R., Philipova, N.D., Uzunova, V.P., Bakov, V.V., Tzoneva, R.D., Bojinov, V.B. Aggregation induced emission in 1,8-naphthalimide embedded nanomicellar architecture as a platform for fluorescent ratiometric pH-probe with biomedical applications Journal of Photochemistry and Photobiology A: Chemistry, 418, art. no. 113380 (2021).
C.110. Tautomerism in 8-(phenyldiazenyl)quinolin-5-ol: An attempt for pH activated rotary switch. J.Lađarević, D.Mijin & <u>L.Antonov</u> ; <i>Dyes and Pigments</i> , 182 , art. 108628 (2020)		
C.111. Favipiravir tautomerism: a theoretical insight. <u>L.Antonov</u> ; <i>Theoretical Chemistry Accounts</i> , 139 , art. 145 (2020)		
2655.	1.	Yasir, H.M., Hanoon, F.H. DFT and TD-DFT Study of Favipiravir Tautomerism as RNA Polymerase Inhibitors: COVID-19 IOP Conference Series: Materials Science and Engineering, 928, art. 072066 (2020)
2656.	2.	da Silva, G. Protonation, Tautomerism, and Base Pairing of the Antiviral Favipiravir(T-705) ChemRxiv, doi: 10.26434/chemrxiv.12229122.v1 (2020).
2657.	3.	Umar, Y. Theoretical studies of the rotational and tautomeric states, electronic and spectroscopic properties of favipiravir and its structural analogues: a potential drug for the treatment of COVID-19 Journal of Taibah University for Science, 14 (1), 1613-1625 (2021).
2658.	4.	Allahverdiyeva, S., Yunusoglu, O., Yardim, Y., Şentürk, Z. First electrochemical evaluation of favipiravir used as an antiviral option in the treatment of COVID-19: A study of its enhanced voltammetric determination in cationic surfactant media using a boron-doped diamond electrode Analytica Chimica Acta, 1159, art. no. 33841 (2021).

2659.	5.	Rabie, A.M. Discovery of (E)-N-(4-cyanobenzylidene)- 6-fluoro- 3-hydroxypyrazine-2 -carboxamide (cyanorona-20): the first potent and specific anti-COVID-19 drug Chemical Papers, doi: 10.1007/s11696-021-01640-9 (2021).
C.112. 8-(Pyridin-2-yl)quinolin-7-ol as a platform for conjugated proton cranes: A DFT structural design. A.Georgiev & L.Antonov; <i>Micromachines</i> , 11 , art. 901 (2020)		
2660.	1.	Takinoue, M., Kawano, R. Editorial on the Special Issue on Recent Advances of Molecular Machines and Molecular Robots <i>Micromachines</i> , 11 , art. no. 1031 (2020).
2661.	2.	Partovi-Azar, P., Sebastiani, D. Minimal Optimized Effective Potentials for Density Functional Theory Studies on Excited-State Proton Dissociation <i>Micromachines</i> , 12 (6), art. no. 679 (2021).
C.113. Chemical profile and sensory evaluation of Bulgarian rose (<i>Rosa damascena</i> Mill.) aroma products, isolated by different techniques. D.Antonova, Y.Medarska, A.Stoyanova, N.Nenov, A.Slavov & L.Antonov; <i>Journal of Essential Oil Research</i> , 33 , 171-181 (2021)		
2662.	1.	Ghavam, M. Relationships of irrigation water and soil physical and chemical characteristics with yield, chemical composition and antimicrobial activity of Damask rose essential oil PLOS ONE, doi: 10.1371/journal.pone.0249363 (2021).
C.114. 4-OH coumarin based rotary switches: Tautomeric state and effect of the stator. D.Yordanov, V.Deneva, A.Georgiev, N.Vassilev, M.Vala, I.Zhivkov & L.Antonov; <i>Dyes and Pigments</i> , 184 , art. 108861 (2021)		
2663.	1.	Ghanavatkar, C.W., Mishra, V.R., Sekar, N. Review of NLOphoric azo dyes – Developments in hyperpolarizabilities in last two decades <i>Dyes and Pigments</i> , 191 , art. no. 109367 (2021).
D.1. Pd(II) complexes of acetylcholinesterase reactivator obidoxime. A.Nedzhib, S.Stoykova, V.Atanasov, I.Pantcheva & L.Antonov; <i>Interdisciplinary Toxicology</i> , 7 , 139-145 (2014)		
2664.	1.	Gorecki, L., Korabecny, J., Musilek, K., Malinak, D., Nepovimova, E., Dolezal, R., Jun, D., Soukup, O., Kuca, K. SAR study to find optimal cholinesterase reactivator against organophosphorous nerve agents and pesticides <i>Archives of Toxicology</i> , 90 (12), 2831–2859 (2016).
D.2. Azonaphthol tautomerism and controlled switching: Is it possible? L.Antonov; <i>American Institute of Physics Conference Proceedings</i> , 1642 , 449-452 (2015)		
2665.	1.	Irshaidat, T. Toward Exploring Novel Organic Materials: MP4-DFT Properties of 4-Amino-3-Iminoindene Molecules, 22 (5), art. 720 (2017).
2666.	2.	Brás, E.M., Fausto, R. Controlled light-driven switching in 2-thiobenzimidazole <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 357 , 185-192 (2018).
D.3. Solvent Effects On The Nonlinear Optical Responses Of Anil Derivatives. E.Bogdan, A.Plaquet, L.Antonov, V.Rodriguez, L.Ducasse, B.Champagne & F.Castet; <i>American Institute of Physics Conference Proceedings</i> , 1642 , 488-496 (2015)		
E.1. Computational analysis of tautomeric equilibria in solution. Л.АНТОНОВ & С.Стойанов; <i>Юбилеен сборник 100 години Химически факултет, Софийски университет</i> , 99-103 (1990)		
E.2. Synthesis and spectral properties of some substitutes N,N-dialkylaminoazobenzenes. S.Stoyanov, V.Petrova, L.Antonov & I.Petkov; <i>Annual compilation of University of Sofia</i> 86 , 33-41 (1993)		
2667.	1.	Makedonski, P. Synthesis of new optical sensors for determination of pH and chloride ions in reinforced concrete Dissertation, Braunschweige Technical University, Germany (2004).
E.3. Spectral (UV-Vis) investigations of the aggregation of some ionic dyes used as indicators.		

T.Stoyanova, <u>L.Antonov</u> , D.Dimitrov & S.Stoyanov; <i>Annual compilation of University of Sofia</i> , 87 , 55-65 (1994)		
2668.	1.	Chakraborty, A., Ali, M., Saha, S.K. Molecular interaction of organic dyes in bulk and confined media <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , 75 (5), 1577-1583 (2010).
E.4. Tautomeric equilibrium of isomeric phenylazonaphthols and 1-Pyridylazo-2-naphthol – a quantitative study. S.Stoyanova, <u>L.Antonov</u> , T.Stoyanova & G.Perez-Caballero; <i>Proceedings of VIth International Conference on Organic Dyes and Pigments Colorchem'96</i> , 26-31 (1996)		
E.5. Unusual tautomeric equilibrium in N-(4-hydroxy-1-naphthylmethylidene)aniline. <u>L.Antonov</u> , V.Petrov, F.S.Kamounah & G.van der Zwan; <i>Годишник на Софийския университет, Химически факултет</i> , 98-99 , 177-183 (2006)		
E.6. Substituent and Solvent Effects on the Tautomerism of 1-Phenylazo-2-naphthol: A Computational Study. S.Tahir Ali, M.Palusiak, <u>L.Antonov</u> & W.M.F.Fabian; <i>Proceedings of 12th Electronic Conference on Synthetic Organic Chemistry</i> , 8 pages (2008).		
2669.	1.	Murray, B.A. Organic Reaction Mechanisms 2010 (A.C.Knipe, editor) Wiley-VCH, 1-54 (2012).
E.7. Pt(II) complexes of oxime-containing acetylcholinesterase reactivators. A.Nedzhib, I.Pantcheva & <u>L.Antonov</u> ; <i>Acta of the International Simposia on Metal Complexes –ISMEC Acta</i> , 4 , 106-107 (2014)		
E.8. Complexation of acetylcholinesterase reactivator Pralidoxime. A.Nedzhib, I.Pantcheva & <u>L.Antonov</u> ; <i>Acta of the International Simposia on Metal Complexes –ISMEC Acta</i> , 4 , 108-109 (2014).		
F.1. Анализ на припокриващи се ивици в абсорбционната UV-Vis спектроскопия – принципен подход и приложения. <u>Л.Антонов</u> ; <i>Дисертация за присъждане на научната степен „кандидат на химическите науки“</i> , Софийски университет, София (1993).		
F.2. Theoretical investigations of the tautomerism of some phenylazonaphthols. <u>L.Antonov</u> ; <i>Final Thesis of 31st UNESCO Course for Advanced Research in Chemistry and Chemical Engineering</i> , Tokyo Institute of Technology, Tokyo (1996)		
2670.	1.	Nedeltcheva, D., Damyanova, B., Popov, S. Gas phase tautomerism of tautomeric azo naphthols and related Schiff bases studied by mass spectrometry <i>Journal of Molecular Structure</i> , 749 (103), 36-44 (2005).
2671.	2.	Habibi, M.H., Hassanzadeh, A., Zeini-Isfahani, A. Spectroscopic studies of Solophenyl red 3BL polyazo dye tautomerism in different solvents using UV-visible, ¹ H NMR and steady-state fluorescence techniques <i>Dyes and Pigments</i> , 69 (1-2), 93-101 (2006).
2672.	3.	Hassanzadeh, A., Zeini-Isfahani, A., Habibi, M.H., Poor Heravi, M.R.A., Abdollahi-Alibeik, M. ¹ H, ¹³ C, NH, HH, CH COSY, HH NOESY NMR and UV-vis studies of Solophenyl red 3BL dye azo-hydrazone tautomerism in various solvents <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , 63 (2), 247-254 (2006).
2673.	4.	Wojciechowski, K., Szymczak, A. The research of the azo-hydrazone equilibrium by means of AM1 method based on the example of an azo dye – the Schäffer salt derivative <i>Dyes and Pigments</i> , 75 (1), 45-51 (2007).
2674.	5.	Niewiadomski, Z., Wojciechowski, K. The influence of the solvent on the yield of reaction and composition of isomers in the synthesis of disazo pigments without employment of mv irradiation <i>Annals of Polish Chemical Society</i> , 386-390 (2007).
2675.	6.	Wojciechowski, K., Szuster, L., Urbaniak, M. Analysis of C.I. Acid Blue 193 structure by means of quantum-chemical methods <i>Annals of Polish Chemical Society</i> , 628-631 (2007).

2676.	7.	Wojciechowski, K., Szuster, L. [Azo-Hyd] Tautomerism and Structure of Selected Metal Complex Dyes AM1 and ZINDO/1 Methods Computational Chemistry, 4, 97-118 (2016).
2677.	8.	Wojciechowski, K., Jedrzejczak, M. Photochemical Degradation of Disazo Dyes, R-Salt Derivatives, on Dyed Cotton Journal of Natural Fibers, 14 (3), 346-356 (2017).
F.3. Модерен UV-Vis спектрален анализ и неговите приложения при изследване на сложни системи. <u>Л.Антонов</u> ; Дисертация за присъждане на научната степен „доктор на химическите науки“, Лесотехнически университет, Sofia (2006).		