

**ПУБЛИКАЦИИ за участие в конкурс за член-кореспондент
на проф. д-р Ирена Костова, дхн**

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НС „доктор“, АД „доцент“, НС „доктор на науките“, АД „професор“ и следващи от №107 - №205.

1. Kostova I., I. Manolov, S. Konstantinov, M. Karaivanova: Synthesis, physicochemical characterization and cytotoxic screening of new complexes of Ce, La and Nd with Warfarin and Coumachlor sodium salts. *Eur. J. Med. Chem.*, 34(1), 63-68, 1999.

IF = 1.074 Цитати: 61

2. Manolov I., I. Kostova, S. Konstantinov, M. Karaivanova: Synthesis, physicochemical characterization and cytotoxic screening of new complexes of Ce, La and Nd with Niffcoumar sodium salt. *Eur. J. Med. Chem.*, 34(11), 853-858, 1999.

IF = 1.074 Цитати: 25

3. Manolov I., I. Kostova, T. Netzeva, S. Konstantinov, M. Karaivanova: Cytotoxic activity of Cerium complexes with coumarin derivatives. Molecular modeling of the ligands. *Arch. Pharm. Pharm. Med. Chem.*, 333(4), 93-98, 2000.

IF = 0.923 Цитати: 53

4. Kostova I., I. Manolov, I. Nicolova, N. Danchev: New metal complexes of 4-methyl-7-hydroxycoumarin sodium salt and their pharmacological activity. *Chem. Med. Chem (Formerly Il Farmaco)*, 56, 707-713, 2001.

IF = 0.539 Цитати: 80

5. Kostova I., I. Manolov, I. Nicolova, S. Konstantinov, M. Karaivanova: New lanthanide complexes of 4-methyl-7-hydroxycoumarin and their pharmacological activity. *Eur. J. Med. Chem.*, 36, 339-347, 2001.

IF = 1.770 Цитати: 194

6. Kostova I., L. Changov, E. Keuleyan, R. Gergova, I. Manolov: Synthesis, analysis and in vitro antibacterial activity of new metal complexes of Sulbactam. *Chem. Med. Chem. (Formerly Il Farmaco)*, 53, 737-740, 1998.

IF = 0.512 Цитати: 7

7. Pencheva I., I. Kostova, S. Konstantinov, E. Naidenova, M. Karaivanova, I. Manolov: Cardioprotective efficacy of new Esculin metal complexes. *Acta Pharm.*, 48(2), 127-131, 1998.

Цитати: 10

8. Kostova I., I. Manolov, M. Karaivanova: Synthesis, physicochemical characterization, and cytotoxic screening of new zirconium complexes with coumarin derivatives. *Arch. Pharm. Pharm. Med. Chem.*, 334(5), 157-162, 2001.

IF = 0.891 Цитати: 69

9. Trendafilova N., I. Kostova, I. Manolov, G. Bauer, T. Mihaylov, I. Georgieva: Synthesis and Spectroscopic Study of New Lanthanum (III) Complex of 3,3'-Benzylidenedi-4-hydroxycoumarin. *Synth. React. Inorg. Met.-Org. Chem.*, 34(9), 1635-1650, 2004.

IF = 0.715 Цитати: 1

10. **Kostova I.**, I. Manolov, M. Radulova: Stability of the complexes of some lanthanides with coumarin derivatives. I. Cerium (III)-4-methyl-7-hydroxycoumarin. *Acta Pharm.*, 54(1), 37-47, 2004.
Цитати: 30
11. **Kostova I.**, I. Manolov, G. Momekov: Cytotoxic activity of new neodymium (III) complexes of bis-coumarins. *Eur. J. Med. Chem.*, 39, 765-775, 2004.
IF = 1.673 Цитати: 61
12. Traykova M., **I. Kostova**: Coumarin Derivatives and Oxidative Stress. *Int. J. Pharmacol.*, 1(1), 29-32, 2005.
Цитати: 44
13. **Kostova I.**, N. Trendafilova, T. Mihailov: Theoretical and spectroscopic studies of pyridyl substituted bis-coumarins and their new neodymium (III) complexes. *Chem. Phys.*, 314, 73-84, 2005.
IF = 1.934 Цитати: 16
14. **Kostova I.**, S. Raleva, P. Genova, R. Argirova: Recent advances in the discovery and development of plant-derived natural coumarins and their analogues as anti human immunodeficiency virus – type 1 (HIV-1) agents. *Biotechn. Biotechn. Eq.*, 19(1), 16-22, 2005.
IF = 0.060 Цитати: 8
15. **Kostova I.**, I. Manolov, G. Momekov, T. Tzanova, S. Konstantinov, M. Karaivanova: Cytotoxic activity of new cerium (III) complexes of bis-coumarins. *Eur. J. Med. Chem.*, 40(12), 1246-1254, 2005.
IF = 2.022 Цитати: 45
16. **Kostova I.**, M. Radulova: Studies on the stability of lanthanide(III) complexes with 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one. Part III. Neodymium (III) complex. *Asian Chem. Lett.*, 9(3-4), 109-116, 2005.
17. **Kostova I.**, S. Raleva, P. Genova, R. Argirova: Structure-activity relationships of synthetic coumarins as HIV-1 inhibitors. *Bioinorg. Chem. Appl.*, 2006, Article ID 68274, 2006.
IF = 0.767 Цитати: 243
18. Mihaylov T., I. Georgieva, G. Bauer, **I. Kostova**, I. Manolov, N. Trendafilova: Theoretical Study of the Substituent Effect on the Intramolecular Hydrogen Bonds in Di-(4-hydroxycoumarin) Derivatives. *Int. J. Quant. Chem.*, 106, 1304–1315, 2006.
IF = 1.182 Цитати: 9
19. **Kostova I.**: Platinum Complexes as Anticancer Agents, *Recent Pat. Rev. Anti –Canc. Drug Disc.*, 1(1), 1-22, 2006.
IF = 4.169 Цитати: 629
20. **Kostova I.**: Gold Coordination Complexes as Anticancer Agents. *Anti-Canc. Ag. Med. Chem. (Form. Curr. Med. Chem. - Anti-Canc. Ag.)*, 6(1), 19-32, 2006.
IF = 3,144 Цитати: 187

21. Georgieva I., I. Kostova, N. Trendafilova, V. K. Rastogi, G. Bauer, W. Kiefer: Raman, FT-IR and DFT study of ortho-, meta- and para pyridinomethylene substituted di-4-hydroxycoumarin and their Ln(III) complexes. *J. Raman Spectrosc.*, 37(7), 742-754, 2006.
IF = 2.133 Цитати: 10
22. Kostova I., V. K. Rastogi, W. Kiefer, A. Kostovski: New cerium (III) and neodymium (III) complexes as cytotoxic agents. *Appl. Organometal. Chem.*, 20(8), 483-493, 2006.
IF = 1.233 Цитати: 12
23. Kostova I., V. K. Rastogi, W. Kiefer, A. Kostovski: New Lanthanum(III) Complex - Synthesis, Characterization and Cytotoxic Activity. *Arch. Pharm. Pharm. Med. Chem.*, 339(11), 598-607, 2006.
IF = 1.076 Цитати: 5
24. Trendafilova N., I. Kostova, V. K. Rastogi, I. Georgieva, G. Bauer, W. Kiefer: Characteristic Raman and IR bands of 3,3'-benzylidenebis(4-hydroxycoumarin) and its La(III), Ce (III) and Nd(III) complexes. *J. Raman Spectrosc.*, 37(8), 808-815, 2006.
IF = 2.133 Цитати: 9
25. Kostova I.: Ruthenium Complexes as Anticancer Agents. *Curr. Med. Chem.*, 13(9), 1085-1107, 2006.
IF = 5.207 Цитати: 658
26. Kostova I.: Coumarins as Inhibitors of HIV Reverse Transcriptase. *Curr. HIV Res.*, 4(3), 347-363, 2006.
IF = 3.687 Цитати: 178
27. Mihaylov T, N. Trendafilova, I. Kostova, I. Georgieva, G. Bauer: DFT modeling and spectroscopic study of metal-ligand bonding in La(III) complex of coumarin-3-carboxylic acid. *Chem. Phys.*, 327, 209-219, 2006.
IF = 1.984 Цитати: 62
28. Georgieva I., N. Trendafilova, W. Kiefer, V. K. Rastogi, I. Kostova: Vibrational and theoretical study of coumarin-3-carboxylic acid binding mode in Ce(III) and Nd(III) complexes. *Vibr. Spectrosc.*, 44(1), 78-88, 2007.
IF = 1.780 Цитати: 22
29. Mojzis J., L. Varinska, G. Mojzisova, I. Kostova, L. Mirossay: Antiangiogenic effects of flavonoids and chalcones. *Pharmacol. Res.*, 57(4), 259-265, 2008.
IF = 3.287 Цитати: 295
30. Kostova I., N. Peica, R. Lodhi, V. K. Rastogi: Theoretical and spectroscopic studies of 3, 5-pyrazoledicarboxylic acid and its new La(III) complex. *Asian J. Phys.*, 15(2), 287-296, 2006.
31. Kostova I., I. Manolov, N. Danchev, S. Samurova: Synthesis, toxicological and hematological study of metal complexes of Dicynone. *Farmacia*, XLIV(3-4), 6-8, 1997.

32. Kostova I., I. Manolov, M. Radulova. Studies on the complexation reaction of Neodymium (III) with Acenocoumarol. Proceedings 11th Panhellenic Pharmaceutical Congress, Athens – Greece, March 29 – 31, 2003, *Eur. J. Drug Metabol. Pharmacokinetics*, 28(1), 19, 2003 (available on CD-ROM).

IF(2003) = 0.474

33. Kostova I., S. Raleva, Z. Mladenova, L. Froloshka, D. Dundarova, R. Argirova: A novel synthesis of metalorganic complexes of warfarin (1) and 3,3'-benzylidenebis[4-hydroxycoumarin] (4) and their anti-HIV activity in cell culture. *International Proceedings XV International AIDS Conference*, 137-141, 2004.

Цитати: 1

34. Kostova I., S. Raleva, Z. Mladenova, L. Froloshka, S. Totkova, A. Savov, P. Genova, D. Dundarova, R. Argirova: Anti-HIV effect in cell culture of newly synthesized cerium(III) and neodymium(III) complexes with some bis-coumarins. *Proceedings 22nd Workshop: Essentiality and Toxicity of Macro, Trace and Ultratrace Elements*, Schubert-Verlag, Leipzig, Germany, 2004, 480-491.

35. Kostova I., S. Raleva, Z. Mladenova, L. Froloshka, D. Dundarova, R. Argirova: New complexes of lanthanum La (III) and Cerium Ce (III) with bis-coumarins. Synthesis, characterization and cytotoxicity for human lymphoblastoid cells (MT-2). *Proceedings 22nd Workshop: Essentiality and Toxicity of Macro, Trace and Ultratrace Elements*, Schubert-Verlag, Leipzig, Germany, 2004, 492-499.

36. Kostova, I., I. Manolov, S. Konstantinov, and M. Karaivanova. "Cytotoxic activity of zirconium complexes with coumarin derivatives." *Acta Pharmaceutica Turcica* 42 (2000): 53-53.

37. Kostova I., I. Manolov, M. Radulova: Stability of the complexes of some lanthanides with coumarin derivatives. II. Neodymium (III)-4-hydroxy-3-[1-(4-nitrophenyl)-3-oxobutyl]-2H-1-benzopyran-2-one. *Acta Pharm.*, 54(2), 119-131, 2004.

Цитати: 19

38. Kostova I., N. Trendafilova, G. Momekov: Theoretical and spectroscopic evidence for coordination ability of 3,3'-benzylidenedi-4-hydroxycoumarin. New neodymium (III) complexes and its cytotoxic effect. *J. Inorg. Biochem.*, 99(2), 477-487, 2005.

IF = 2.423 Цитати: 37

39. Kostova I.: Synthetic and natural coumarins as cytotoxic agents. *Anti-Canc. Ag. Med. Chem. (Form. Curr. Med. Chem. - Anti-Canc. Ag.)*, 5(1), 29-46, 2005.

IF = 3,144 Цитати: 729

40. Kostova I.: Lanthanides as Anticancer Agents. *Anti-Canc. Ag. Med. Chem. (Form. Curr. Med. Chem. - Anti-Canc. Ag.)*, 5(6), 591-602, 2005.

IF = 3,144 Цитати: 132

41. Kostova I., M. K. Radulova: Studies on the stability of lanthanide(III) complexes with 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one. Part I. Cerium (III) complex. *Asian Chem. Lett.*, 9(3-4), 91-99, 2005.

42. **Kostova I., M. K. Radulova:** Studies on the stability of lanthanide(III) complexes with 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one. Part II. Lanthanum (III) complex. *Asian Chem. Lett.*, 9(3-4), 100-108, 2005.
43. **Kostova I., I. Nikolova:** Stability of Neodymium(III) Complexes of 4-Hydroxycoumarins with Anticoagulant Activity. *Am. J. Pharm. Toxicol.*, 1(2), 30-35, 2006.
Цитати: 14
44. **Kostova I.:** Synthetic and Natural Coumarins as Antioxidants. *Mini-Rev. Med. Chem.*, 6(4), 365-374, 2006.
IF = 3.163 Цитати: 163
45. **Peica N., I. Kostova, W. Kiefer.** Theoretical and experimental studies on binding mode of 3,5-pyrazoledicarboxylic acid in its new La(III) complex. *Chem. Phys.*, 325(2-3), 411-421, 2006.
IF = 1.984 Цитати: 6
46. **Kostova I., M. Traykova:** Cerium(III) and neodymium(III) complexes as scavengers of X/XO-derived superoxide radical. *Med. Chem.*, 2(5), 463-470, 2006.
IF = 1.642 Цитати: 8
47. **Kostova I., N. Peica, W. Kiefer:** Theoretical and spectroscopic studies of lanthanum (III) complex of 5-aminoorotic acid. *Chem. Phys.*, 327, 494-505, 2006.
IF = 1.984 Цитати: 18
48. **Kostova I., N. Peica, W. Kiefer:** Raman, FT-IR and DFT studies of 3, 5-pyrazoledicarboxylic acid and its Ce(III) and Nd(III) complexes. *J. Raman Spectrosc.*, 38(1), 1-10, 2007.
IF = 3.514 Цитати: 29
49. **Kostova I., N. Peica, W. Kiefer:** Theoretical and spectroscopic studies of 5-aminoorotic acid and its new lanthanide (III) complexes. *J. Raman Spectrosc.*, 38(2), 205-216, 2007.
IF = 3.514 Цитати: 17
50. **Kostova I., N. Peica, W. Kiefer:** Theoretical and spectroscopic studies of new lanthanum (III) complex of orotic acid. *Vibr. Spectrosc.*, 44(2), 209-219, 2007.
IF = 1.780 Цитати: 7
51. **Kostova I., N. Trendafilova, S. Cîntă Pînzaru, W. Kiefer, G. Momekov:** Spectroscopic evidence of La(III) complex of coumarin-3-carboxylic acid with cytotoxic activity. *J. Optoelectr. Adv. Mater.*, 9(3), 532-539, 2007.
IF = 0.827 Цитати: 3
52. **Kostova I., G. Momekov, P. Stancheva:** New samarium (III), gadolinium (III) and dysprosium (III) complexes of coumarin-3-carboxylic acid as anticancer agents. *Metal-Based Drugs*, Vol. 2007, Article ID 15925, 8 pages, 2007.
Цитати: 83
53. **Kostova I., G. Momekov:** Synthesis and cytotoxicity evaluation of new cerium(III), lanthanum(III) and neodymium(III) complexes. *Appl. Organometal. Chem.*, 21(4), 226-233, 2007.

IF = 1.224 Цитати: 16

54.Kostova I., N. Peica, I. Kuleff, V. Kumar, W. Kiefer, S. P. Ojha, V. K. Rastogi: Vibrational characterization of new Sm(III) complex. *Asian Chem. Lett.*, 11(1&2), 123-132, 2007.

55.Kostova I., J. Mojzis: Biologically active coumarins as inhibitors of HIV-1 (RT, IN and PR). *Fut. HIV Ther.*, 1(3), 315-329, 2007.

Цитати: 25

56.Kostova I., W. Kiefer, G. Momekov: Cytotoxic Activity of Gd(III) and Dy(III) Complexes. *Arch. Pharm. – Chem. Life Sci.*, 340(12), 642-649, 2007.

IF = 1.300 Цитати: 6

57.Kostova I.: Studying plant derived coumarins for their pharmacological and therapeutic properties as potential anticancer drugs. *Expert Opin. Drug Discov.*, 2(12), 1605-1618, 2007.

IF = 6.098 Цитати: 58

58.Kostova I., M. Traykova, V. K. Rastogi: New lanthanide complexes with antioxidant activity. *Med. Chem.*, 4(4), 371-378, 2008.

IF = 1.642 Цитати: 15

59.Kostova I., G. Momekov: Synthesis, spectral and pharmacological studies on lanthanide(III) complexes of 3, 5-pyrazoledicarboxylic acid. *J. Coord. Chem.*, 61(23), 3776-3792, 2008.

IF = 0.732 Цитати: 9

60.Kostova I., N. Trendafilova, I. Georgieva, V. K. Rastogi, W. Kiefer: Experimental and Theoretical Studies on Biologically Active Lanthanide(III) Complexes. Proceedings of the 2nd International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2008). *Am. Inst. Phys. Conf. Proc.*, 1075 (1), 47-51, 2008.

IF = 0.402 Цитати: 1

61.Kostova I., V. K. Rastogi, W. Kiefer: Vibrational spectroscopic investigation on the binding modes in Gd(III) and Dy(III) complexes. *J. Optoelectr. Adv. Mater.*, 10(6), 1345-1352, 2008.

IF = 0.577 Цитати: 2

62.Kostova I., R. Tomar, N. Peica, V.K. Rastogi, S.P. Ojha, W. Kiefer, G. Momekov: Theoretical and vibrational characterization of biologically active complex of Ce(III) with orotic acid. *Proceedings of the XXIst International Conference on Raman Spectroscopy*, Eds. R. Withnall and B. Z. Chowdhry, IMPublications, 687-688, 2008.

63.Rastogi V.K., M.A. Palafox, V. Kumar, R. Tomar, S.P. Ojha, I. Kostova: Prediction of tautomers and dipole moments of anticarcinogenic drug: 5-fluorouracil. *Proceedings of the XXIst International Conference on Raman Spectroscopy*, Eds. R. Withnall and B. Z. Chowdhry, IMPublications, 770-771, 2008.

64.Kostova I., I. Hubert Joe, Simona Cîntă Pînzaru: Vibrational spectral characterization of new La(III) and Dy(III) complexes. *J. Optoelectr. Biomed. Mater.*, 1(2), 188-199, 2009.

Цитати: 20

65. Joe I. H., I. Kostova, C. Ravikumar, M. Amalanathan, S. C. Pinzaru: Theoretical and vibrational spectral investigation of sodium salt of Acenocoumarol. *J. Raman Spectrosc.*, 40(8), 1033-1038, 2009.
IF = 3.147 Цитати: 99
66. Kostova I., Ts. Stefanova: Synthesis, characterization and cytotoxic/cytostatic activity of Sm(III) and Gd(III) complexes. *J. Coord. Chem.*, 62(19), 3187-3197, 2009.
IF = 0.825 Цитати: 18
67. Mihaylov T., N. Trendafilova, I. Georgieva, I. Kostova: Coordination properties of warfarin towards Pr(III) predicted from DFT and FTIR studies *Chem. Phys.*, 374(1-3), 37-45, 2010
IF = 2.017 Цитати: 5
68. Kostova I., G. Momekov, M. Zaharieva, M. Karaivanova: Cytotoxic activity of new lanthanum (III) complexes of bis-coumarins. *Eur. J. Med. Chem.*, 40(6), 542-551, 2005.
IF = 2.022 Цитати: 127
69. Kostova I., G. Momekov, M. Karaivanova: Synthesis, characterization and cytotoxic activity of new lanthanum and neodymium complexes of coumarin-3-carboxylic acid. *Proceedings 12th Panhellenic Pharmaceutical Congress, Eur. J. Drug Metabol. Pharmacokinetics*, 2005.
IF = 0.585
70. Kostova I.: Natural coumarins as inhibitors of HIV reverse transcriptase. *Asian Chem. Lett.*, 9(3-4), 71-78, 2005.
71. Kostova I.: Synthetic coumarins as inhibitors of HIV reverse transcriptase. *Asian Chem. Lett.*, 9(3-4), 65-70, 2005.
72. Kostova I., R. Kostova, G. Momekov, N. Trendafilova, M. Karaivanova: Antineoplastic activity of new lanthanide (Ce, La and Nd) complex compounds. *J. Tr. Elem. Med. Biol.*, 18, 219-226, 2005.
IF = 0.955 Цитати: 45
73. Kostova I., V. K. Rastogi: Metal complexes of 7-hydroxycoumarins. Part I. Complexes of 7-hydroxy-4-methylcoumarins. *Asian Chem. Lett.*, 9(3-4), 79-83, 2005.
74. Kostova I., V. K. Rastogi: Metal complexes of 7-hydroxycoumarins. Part II. Complexes of derivatives of 7-hydroxycoumarins. *Asian Chem. Lett.*, 9 (3-4), 84-90, 2005.
75. Kostova I., G. Momekov, T. Tzanova, M. Karaivanova: Synthesis, characterization and cytotoxic activity of new lanthanum(III) complexes of bis-coumarins. *Bioinorg. Chem. Appl.*, Volume 2006, Article ID 25651, 9 pages, 2006.
IF = 0.767 Цитати: 94
76. Kostova I., G. Momekov: New zirconium (IV) complexes of coumarins with cytotoxic activity. *Eur. J. Med. Chem.*, 41(6), 717-726, 2006.
IF = 2.187 Цитати: 73

77. Kostova I., N. Trendafilova, I. Georgieva: Spectroscopic and Theoretical Studies of a New Cerium (III) Complex with 3,3'-(*ortho*-Pyridinomethylene)di-[4-hydroxycoumarin]. *Spectrosc. Lett.*, 40(1), 65-81, 2007.

IF = 0.817 Цитати: 9

78. Rai B. K., Kostova I., S. P. Ojha, R. Tomar, V. K. Rastogi: Synthesis and spectral studies of Co(II), Ni(II) and Cu(II) complexes with Schiff bases derived from 2-methyl-thioquinazolin-4(3H) one. *Asian J. Phys.*, 16(1), 23-27, 2007.

Цитати: 2

79. Kostova I., V. Kumar, W. Kiefer, S. P. Ojha, V. K. Rastogi: Vibrational spectroscopic characterization of the binding modes in Zr(IV) complex. *Asian Chem. Lett.*, 11(1&2), 133-140, 2007.

80. Kostova I., N. Trendafilova, V. K. Rastogi, W. Kiefer: Vibrational spectroscopic investigation on the binding modes in Zr(IV) complexes of coumarins. *Optoelectr. Adv. Mater.*, 1(10), 534-542, 2007.

IF = 0.827 Цитати: 2

81. Kostova I., G. Momekov: New cerium (III) complexes of coumarins - synthesis, characterization and cytotoxicity evaluation. *Eur. J. Med. Chem.*, 43(1), 178-188, 2008.

IF = 2.882 Цитати: 59

82. Kostova I., N. Trendafilova, G. Momekov: Theoretical, spectral characterization and antineoplastic activity of new lanthanide complexes. *J. Tr. Elem. Med. Biol.*, 22(2), 100-111, 2008.

IF = 1.433 Цитати: 42

83. Rastogi V. K., S. Singhal, A. P. Kumar, G. R. Rao, M. A. Palafox, I. Kostova: Vibrational spectra, normal coordinate analysis and thermodynamics of 2-chloro-5-nitrobenzonitrile. *Ind. J. Pure Appl. Phys.*, 47(12), 844-851, 2009.

IF = 0.271 Цитати: 6

84. Kostova I., Ts. Stefanova: Synthesis, characterization and cytotoxic/cytostatic activity of La(III) and Dy(III) complexes. *J. Trace Elem. Med. Biol.*, 24(1), 7-13, 2010.

IF = 2.176 Цитати: 38

85. Rastogi V. K., M. A. Palafox, A. Guerrero-Martínez, G. Tardajos, J. K. Vats, I. Kostova, S. Schlucker, W. Kiefer: FT-IR and FT-Raman spectra, ab initio and density functional computations of the vibrational spectra, molecular geometry, atomic charges and some molecular properties of the biomolecule 5-iodouracil. *J. Molec. Struct. (Theochem)*, 940(1-3), 29-44, 2010.

IF = 1.288 Цитати: 22

86. Kumar V., Y. Panikar, M. A. Palafox, J. K. Vats, I. Kostova, V. K. Rastogi: Ab-initio calculations, FT-IR and FT-Raman spectra of 2-chloro-6-methyl benzonitrile. *Ind. J. Pure Appl. Phys.*, 48(2), 85-94, 2010.

IF = 0.511 Цитати: 42

87. Kostova I., R. K. Soni: Copper, silver and gold complexes in medical therapy. *Int. J. Curr. Chem.*, 1(4), 73-80, 2010.
Цитати: 1
88. Kostova I., R. K. Soni: Platinum, palladium, rhodium and rhenium complexes as anticancer agents. *Int. J. Curr. Chem.*, 1(4), 81-88, 2010.
Цитати: 3
89. Kostova I., R. K. Soni: Iron, ruthenium and osmium complexes in anticancer drug therapy. *Int. J. Curr. Chem.*, 1(6), 133-143, 2010.
Цитати: 3
90. Kostova I., M. Amalanathan, I. H. Joe: Molecular First order Hyperpolarizability and Vibrational Spectral investigation of Warfarin Sodium. *Chem. Phys.*, 378(1-3), 88-102, 2010.
IF = 2.017 Цитати: 12
91. Kostova I., W. Kiefer, G. Momekov: Vibrational Characterization of a New Complex of Gadolinium(III) with Cytotoxic Activity. *Am. Inst. Phys. Conf. Proc.*, 1267 (1), 607-608, 2010.
IF = 0.402
92. Georgieva I., I. Kostova, N. Trendafilova: DFT, IR, Raman and NMR study of the coordination ability of coumarin-3-carboxylic acid to Pr(III) *J. Molec. Struct.*, 979(1-3), 115-121, 2010.
IF = 1.599 Цитати: 18
93. Andronie L., S. C. Pînzaru, I. Kostova, O. Cozar: SERS of the New Rare-Earth-Acenocoumarol Complexes. *Am. Inst. Phys. Conf. Proc.*, 1267 (1), 1045-1046, 2010.
IF = 0.402
94. Amalanathan M., I. H. Joe, I. Kostova: Density functional theory (DFT) calculation and vibrational spectral analysis of 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one. *J. Raman Spectrosc.*, 41(9), 1076-1084, 2010.
IF = 3.137 Цитати: 23
95. Kostova I., S. Balkansky, J. Mojzis: Characterization and Cytotoxicity Evaluation of La(III) Complex of Orotic Acid. *Int. J. Curr. Chem.*, 1(4), 271-280, 2010.
96. Kostova I., T. Stefanova: Cytotoxicity of new Ho(III) and Pr(III) complexes. *J. Rare Earths*, 28 (Spec. Iss.), 40-46, 2010.
IF = 1.086 Цитати: 13
97. Kostova I., P. Grigorov, J. Mojzis: Pr(III) Complex of Warfarin and Its Antiproliferative Activity. *Int. J. Curr. Chem.*, 1(4), 291-298, 2010.
98. Palafox A. M., V. K. Rastogi, H. Kumar, I. Kostova, J. K. Vats: Tautomerism in 5-Bromouracil: relationships with other 5-haloderivatives and effect of the microhydration. *Spectrosc. Letters*, 44(4), 300-306, 2011.
IF = 0.719 Цитати: 16

99. Kostova I., P. Grigorov, S. Balkansky, T. Stefanova: Synthesis, characterization and cytotoxicity of new Ho(III) and Er(III) complexes. *Ind. J. Biotechnol.*, 10(4), 387-394, 2011.
IF = 0.550 Цитати: 12
100. Kostova I., S. Bhatia, P. Grigorov, S. Balkansky, V. S. Parmar, A. K. Prasad, L. Saso: Coumarins as Antioxidants. *Curr. Med. Chem.*, 18(25), 3929-3951, 2011.
IF = 4.859 Цитати: 433
101. Kostova I., T. Stefanova: New gallium(III) complex-synthesis, spectral characterization and cytotoxicity. *Ind. J. Pure & Appl. Phys.*, 50(8), 547-554, 2012.
IF = 0.763 Цитати: 10
102. Trendafilova N., I. Kostova: Application of Density Functional Approximation for Investigation of Reactive Sites, Molecular and Electronic Structure of Coumarins and Their Lanthanide(III) Complexes. *Asian J. Chem.*, 24(12), 5447-5449, 2012.
IF = 0.270
103. Kostova I., V. K. Rastogi, W. Kiefer: Application of FT-IR/FT-Raman spectral investigations and quantum chemical calculations on Ln(III) complexes. *Proceedings XXIII International Conference on Raman Spectroscopy (ICORS 2012)*, Bangalore, India, 2012.
104. Kostova I., R. K. Agarwal, T. Stefanova: Synthesis, spectral characteristics and cytotoxicity of a new indium(III) complex. *Int. J. Chem.*, 1(2), 148-157, 2012.
105. Kostova I., T. Stefanova: Biologically Active Thallium(III) Complex-Synthesis, Spectral Characterization and Cytotoxicity. *Int. J. Curr. Chem.*, 3(1-2), 197-206, 2012.
106. Kostova I., S. Balkansky: Metal Complexes of Biologically Active Ligands as Potential Antioxidants. *Curr. Med. Chem.*, 20(36), 4508-4539, 2013.
IF = 4.859 Цитати: 36
107. Kostova I., L. Saso: Advances in Research of Schiff-Base Metal Complexes as Potent Antioxidants. *Curr. Med. Chem.*, 20(36), 4609-4632, 2013.
IF = 4.859 Цитати: 169
108. Balkansky S., Kostova I.: Metal complexes of coumarin with anticancer activity. *Int. J. Chem.*, 2(2), 265-280, 2013.
Цитати: 2
109. Valcheva-Traykova M., Luciano Saso, I. Kostova: Involvement of Lanthanides in the Free Radicals Homeostasis. *Current Topics in Medicinal Chemistry* 14, no. 22 (2014): 2508-2519.
IF = 3.453 Цитати: 28
110. Kostova I., M. Valcheva-Traykova: New samarium(III) complex of 5-aminoorotic acid with antioxidant activity. *Applied Organometallic Chemistry*, 29(12), 815-824, 2015.
IF = 2.017 Цитати: 10
111. Kostova I., M. Valcheva-Traykova: Synthesis, characterization and antioxidant activity of new Gd(III) complex. *Journal of Coordination Chemistry*, 68(22), 4082-4101, 2015.

112. Valcheva-Traykova M., Kostova I.: Effect of lanthanide(III) nitrates on the *in vitro* free radicals accumulation in presence of Xanthine/Xanthine oxidase model system. *Int. J. Chem.*, 5(1), 1-10, 2016.
113. Martin, J., Mladěnka, P., Saso, L., & Kostova, I.: Lanthanide(III) complexes are more active inhibitors of the Fenton reaction than pure ligands. *Redox Report*, 21(2), 84-89, 2016.
IF = 1.71 Цитати:7
114. Jahromi, E. Z., Divsalar, A., Saboury, A. A., Khaleghizadeh, S., Mansouri-Torshizi, H., & Kostova, I.: Palladium complexes: new candidates for anti-cancer drugs *J. Iran. Chem. Soc.*, 13(5), 967-989, 2016
IF = 1.087 Цитати: 88
115. Kostova I., M. Valcheva-Traykova, S. Balkansky: Vibrational characterization and prooxidant activity of newly synthesized dysprosium(III) complex. *J. Iran. Chem. Soc.*, 13(5), 891–902, 2016.
IF = 1.087 Цитати:1
116. Kostova, I., Atanasova, V., Todorov, L., Kondeva-Burdina, M., & Tzankova, V.: Evaluation of hepatoprotective and antioxidant activity of newly synthesized Ho(III) complex” *Biointerface Research in Applied Chemistry*, Volume 6, Issue 5, 2016, 1541-1549.
Цитати: 2
117. Zeinabad, H. A., Kachooei, E., Saboury, A. A., Kostova, I., Attar, F., Vaezzadeh, M., & Falahati, M.: Thermodynamic and Conformational Changes of Protein toward Interaction with Nanoparticles: A Spectroscopic Overview. *RSC Advances*, 6 (107), 105903-105919, 2016.
IF = 3.289 Цитати: 83
118. Kostova I., Atanasova V., Kondeva-Burdina M. S., Tzankova V. I.: Vibrational Characterization and Antioxidant Activity of Newly Synthesized Gallium(III) Complex. *Peertechz J Med Chem Res* 2(1): 17-24, 2016.
Цитати: 1
119. Kostova I., Atanasov P. Y.: Antioxidant Properties of Pyrimidine and Uracil Derivatives. *Current Organic Chemistry*, 2017, 21, 2096–2108.
IF = 2.157 Цитати: 28
120. Todorov L., B. Chifchiev, M. Valcheva-Traykova, I. Kostova: Radical scavenging activity toward 2,2-diphenyl-1-hydrazil and hydroxyl radicals of 5-aminoorotic acid and its Ga(III) complex. *Bulg. Chem. Commun.*, 50C, 2018, 207-212.
IF = 0.238
121. Costanzo, C., Todorov, L. T., Valcheva-Traykova, M., & Kostova, I.: Effect of Pr(III) nitrate and Pr(III) complex with 5-aminoorotic acid on the accumulation of hydroxyl radicals in rat blood serum. *Bulg. Chem. Commun.*, 50C, 2018, 201-206.
IF = 0.238

122. Teimouri, M., Khosravinejad, F., Attar, F., Saboury, A. A., Kostova, I., Benelli, G., & Falahati, M.: Gold nanoparticles fabrication by plant extracts: synthesis, characterization, degradation of 4-nitrophenol from industrial wastewater, and insecticidal activity—A review. *Journal of Cleaner Production*. Volume 184, 2018, 740-753.
IF = 5.157 Цитати: 124
123. Kondeva-Burdina, M. S., Kasabova-Angelova, A. V., Atanasova, V. P., Tzankova, V. J., & Kostova, I.: Study on the in vitro activity of Pr(III) complex of 5-aminoorotic acid. *Bulg. Chem. Commun.*, 50C, 2018, 218-224.
IF = 0.238
124. Kostova I., Atanasova V., Todorov L., Kondeva-Burdina M. S., Tzankova V. I.: Synthesis, vibrational characterization and antioxidant activity of newly synthesized indium(III) complex. *Frontiers in Drug, Chemistry and Clinical Research*, 1(2): 1-7, 2018.
125. Todorov L., Mladenova M. B., Valcheva-Traykova, M., & Kostova, I.: Effects of orotic and 5-amino orotic acids on the free radicals accumulation in rat blood serum. *Bulg. Chem. Commun.*, 50C, 2018, 213-217.
IF = 0.238
126. Muthusami, R., Moorthy, M., Kostova I., Govindaraj, A., Manickam, C., & Rangappan, R.: Designing a biomimetic catalyst for phenoxazinone synthase activity using a mesoporous Schiff base copper complex with a novel double-helix morphology. *New Journal of Chemistry*, 2018, 42(23), 18608-18620.
IF = 3.201 Цитати: 17
127. Todorov L., Valcheva-Traykova, M., & Kostova, I.: Impact of 5-aminoorotic acid and its complex with gallium(III) on the luminol dependent chemiluminescence in presence of sodium hypochlorite. *Am. Inst. Phys. Conf. Proc.*, 2019, 2075 (1), 170004.
IF = 0.402
128. Todorov L., Valcheva-Traykova, M., & Kostova, I.: Lanthanum, Gallium and Their Impact on Oxidative Stress. *Current Medicinal Chemistry*, 26(22), 2019, 4280-4295(16).
IF = 3.469 Цитати: 7
129. Kostova I., Atanasova V., Kondeva-Burdina M. S., Tzankova V. I.: Synthesis and vibrational characterization of new Er(III) complex with hepatoprotective and antioxidant activity. *GP Globalize Research Journal of Chemistry*, 2019, 2(2), 1-16.
IF = 0.883
130. Todorov L., Valcheva-Traykova M., Atanasova V., Kostova I.: Effect of 5-Aminoorotic Acid and Its Gallium(III) Complex on The Antioxidant Activity of Rat Blood Serum. *Bulg Chem Commun*. Volume 51, Special Issue A (pp. 200-203), 2019.
IF = 0.238
131. Atanasova, V., Costanzo, C., Todorov, L., Valcheva-Traykova, M., & Kostova, I.: Effect of bovine serum albumin on the UV spectra of 5-aminoorotic acid and its complex with Pr(III) in K, Na- phosphate buffer of pH 7.45. *Bulg Chem Commun*. Volume 51, Special Issue A (pp. 68-71), 2019.

132. Falahati, M., Attar, F., Sharifi, M., Saboury, A. A., Salihi, A., Aziz, F. M., Kostova I.: Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine. *Biochimica et Biophysica Acta (BBA)-General Subjects* (2020): 1864(1), 129435.
IF = 3.770 Цитати: 116
133. Muthusami, R., Kesavan, A., Ramachandran, V., Vasudevan, V., Kostova I., & Rangappan, R.: Synthesis of mesoporous silica nanoparticles with a lychee-like morphology and dual pore arrangement and its application towards biomimetic activity via functionalization with copper(II) complex. *Microporous and Mesoporous Materials* 294, 2020, 109910
IF = 4.182 Цитати: 14
134. Safronov, N. E., Fomin, T. O., Minin, A. S., Todorov, L., Kostova, I., Benassi, E., & Belskaya, N. P.: 5-Amino-2-aryl-1,2,3-triazol-4-carboxylic acids: Synthesis, photophysical properties, and application prospects. *Dyes and Pigments* 178, 2020, 108343.
IF = 4.889 Цитати: 8
135. Slavova, K. I., Todorov, L. T., Belskaya, N. P., Palafox, M. A., & Kostova, I. (2020). Developments in the application of 1, 2, 3-triazoles in cancer treatment. *Recent Patents on Anti-Cancer Drug Discovery*, 15(2), 92-112.
IF = 4.169 Цитати: 46
136. Todorov L., Traykova M., Kostova I.: In Vitro Interaction of 5-aminoorotic Acid and Its Lanthanum(III) Complex With Superoxide and Hypochlorite Radicals, *Der Pharma Chem.*, 12(7), 26-35, 2020.
IF = 0.127
137. Todorov, L., Traykova, M., Saso, L., & Kostova, I. (2020). In Vitro Interaction of 5-Aminoorotic Acid and Its Gallium (III) Complex with Superoxide Radical, Generated by Two Model Systems. *International Journal of Molecular Sciences*, 21(22), 8862.
IF = 5.923 Цитати: 2
138. Todorov, L., Saso, L., Benarous, K., Traykova, M., Linani, A., & Kostova, I. (2021). Synthesis, Structure and Impact of 5-Aminoorotic Acid and Its Complexes with Lanthanum (III) and Gallium (III) on the Activity of Xanthine Oxidase. *Molecules*, 26(15), 4503.
IF = 4.411 Цитати: 7
139. Kostova, I., Mojžiš, J., & Chiş, V. (2021). Theoretical and Experimental Vibrational Characterization of Biologically Active Nd (III) Complex. *Molecules*, 26(9), 2726.
IF = 4.411
140. Muthusami, R., Ramachandran, V., Palaniappan, M., Arumugam, S., Palanisamy, K., Kostova, I. & Rangappan, R.: Cu(II) Schiff base complex functionalized mesoporous silica nanoparticles as an efficient catalyst for the synthesis of questiomycin A and photo-Fenton-like rhodamine B degradation. *Journal of Solid State Chemistry*, 302:122429, 2021.
IF = 3.498 Цитати: 6

141. Benarous, K., Bou-Salah, L., Linani, A., Yousfi, M., Kostova, I., & Saso, L.: Lanthanide (III) complexes of bis-coumarins as strong inhibitors of bovine xanthine oxidase-molecular docking and SAR studies. *Journal of Biomolecular Structure and Dynamics*, 2022, 40(6), 2733-2739.
IF = 3.39 Цитати: 3
142. Singh, A., Padmesh, S., Dwivedi, M., & Kostova, I. (2022). How Good are Bacteriophages as an Alternative Therapy to Mitigate Biofilms of Nosocomial Infections. *Infection and Drug Resistance*, 15, 503.
IF = 4.003 Цитати: 12
143. Ambika, S.V.S., Gunasekaran, S., Velmurugan, D., & Kostova, I. (2022). Chromatographic fractionation and molecular docking of bioactive component from the leaves of *Solanum nigrum* for binding affinity with proton pump to inhibit gastric acid secretion. *Materials Today: Proceedings*, 68, 491-496.
IF(2021) = 1.46
144. Todorov, L., Hristova, N., Belskaya, N., & Kostova, I.: Antioxidant properties of a novel triazole ligand. *Macedonian Pharmaceutical Bulletin*, 68 (Suppl 1) 397 - 398 (2022).
145. Hekmat, A., Saso, L., Lather, V., Pandita, D., Kostova, I., & Saboury, A. A.: Recent Advances in Nanomaterials of Group XIV Elements of Periodic Table in Breast Cancer Treatment." *Pharmaceutics* 14, no. 12 (2022): 2640.
IF(2021) = 6.525 Цитати: 1
146. Johri, P., Singh, S., Sao, P., Banerjee, S., Trivedi, M., Singh, A., & Kostova, I.: An integrated approach to identify intrinsically disordered regions in osteopontin with its interacting network in rheumatoid arthritis. *Recent Advances in Anti-Infective Drug Discovery*. 2023, 18(1), 69–86.
IF(2021) = 1.5 Цитати: 2
147. Rastogi, S., Singh, A., Nandy, A., Gupta, A., Agarwal, J., & Kostova, I. (2022). Can the Therapeutic Spectrum of Probiotics be Extended: Exploring Potential of Gut Microbiome. *Recent Advances in Anti-infective Drug Discovery*, 2023, 18, 120-147.
IF(2021) = 1.5
148. Safronov, N. E., Minin, A. S., Slepukhin, P. A., Kostova, I., Benassi, E., & Belskaya, N. P. (2023). 5-Amino-2-aryl-2H-1, 2, 3-triazole-4-carboxamides: Unique AIEE-gens and Selective Hg²⁺ Fluorosensors. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2023, 292, 122419.
IF(2022) = 4.831 Цитати: 2
149. Kostova I. The Role of Complexes of Biogenic Metals in Living Organisms. *Inorganics* 2023, 11, 56.
IF(2022) = 3.149 Цитати: 12
150. Kostova I. Toxic metals and antidotes. *J. Clin. Images Med. Case Rep.*. 2023; 4(1): 2240
IF(2022) = 1.8 Цитати: 1

151.Kostova I. Biological role and food sources of biogenic metals. *J. Agric. Food Sci. Biotechnol.* 2023; 1(1), 23-34.

152.Todorov, L., Saso, L., Kostova, I.: Antioxidant Activity of Coumarins and Their Metal Complexes. *Pharmaceuticals*, 2023, 16(5), 651.

IF(2022) = 5.215 Цитати: 16

153.Todorov, L., Kostova, I.: Recent Trends in the Development of Novel Metal-Based Antineoplastic Drugs. *Molecules*, 2023, 28(4), 1959.

IF(2022) = 4.927 Цитати: 17

154.Yadav R. K., Yadav B., Yadav R. A., Kostova, I.: Experimental IR, Raman, and UV-Vis Spectra DFT Structural and Conformational Studies: Bioactivity and Solvent Effect on Molecular Properties of Methyl-Eugenol. *Molecules* 2023, 28, 540.

IF(2022) = 4.927

155.Safronov N. E.; Kostova I., Palafox, M. A.; Belskaya, N.P.: Combined NMR spectroscopy and quantum-chemical calculations in Fluorescent 1,2,3-triazole-4-carboxylic acids fine structures analysis. *Int. J. Mol. Sci.*, 2023, 24 (10), 8947.

IF(2022) = 6.208 Цитати: 1

156.Gagarin, A. A., Minin, A. S., Shevyrin, V. A., Kostova, I., Benassi, E., & Belskaya, N. P. (2023). Photocaging of Carboxylic Function Bearing Biomolecules by New Thiazole Derived Fluorophore. *Chemistry—A European Journal*, 29(59), e202302079.

IF(2022) = 5.02

157.Akitsu T., Tsvetkova D., Yamamoto Y., Nakane D., Kostova I.: From Basics of Coordination Chemistry to Understanding Cisplatin-analogue Pt Drugs. *Current Pharmaceutical Design* 29.22 (2023): 1747-1774.

IF(2022) = 3.31

158.Todorov L., Kostova I. (2023) 1,2,3-Triazoles and their metal chelates with antimicrobial activity. *Front. Chem.* 11:1247805.

IF(2022) = 5.545 Цитати: 5

159.Palafox, M. A.; Belskaya, N.P.; Kostova, I.: Peculiarities of the Spatial and Electronic Structure of 2-Aryl-1,2,3-Triazol-5-Carboxylic Acids and Their Salts on the Basis of Spectral Studies and DFT Calculations. *Int. J. Mol. Sci.* 2023, 24, 14001.

IF(2022) = 6.208 Цитати: 1

160.Palafox, M. A., Belskaya, N. P., & Kostova, I. (2023). Study of the Molecular Architectures of 2-(4-Chlorophenyl)-5-(pyrrolidin-1-yl)-2 H-1, 2, 3-triazole-4-carboxylic Acid Using Their Vibrational Spectra, Quantum Chemical Calculations and Molecular Docking with MMP-2 Receptor. *Pharmaceutics*, 15(12), 2686.

IF(2022) = 6.525

161. Palafox, M.A., Belskaya, N.P., Todorov, L.T., Kostova, I. (2023). Structural Study of a La (III) Complex of a 1, 2, 3-Triazole Ligand with Antioxidant Activity. *Antioxidants*, 12(10), 1872.
IF(2022) = 7.00
162. Yadav, R.K.; Yadav, R.A.; Kostova, I.: Structural, Conformational and Spectroscopic Investigations of a Biologically Active Compound: L-Dopa. *Applied Sciences* 13 (24), (2023): 13336.
IF(2023) = 2.7
163. Kostova, I. Therapeutic and Diagnostic Agents Based on Bioactive Endogenous and Exogenous Coordination Compounds. *Current Medicinal Chemistry* (2024) 31 (3), 358-386.
IF(2022) = 4.03
164. Singh A., Kostova, I. (2024). Health effects of heavy metal contaminants Vis-à-Vis microbial response in their bioremediation *Inorganica Chimica Acta*, 122068.
IF(2023) = 2.8
165. Shahlaei, M., Asl, S. M., Derakhshani, A., Kurek, L., Karges, J., Macgregor, R., Kostova, I., Saboury A.A.: Platinum-Based Drugs in Cancer Treatment: Expanding Horizons and Overcoming Resistance. *Journal of Molecular Structure*, Volume 1301, 2024, 137366.
IF(2023) = 3.8 Цитати: 4
166. Todorov L., Kostova I.: Coumarin-transition metal complexes with biological activity: current trends and perspectives. *Frontiers in Chemistry*, Volume 12, 2024, 1342772.
IF(2023) = 5.545 Цитати: 1
167. Kostova, I. Anticancer Metallocenes and Metal Complexes of Transition Elements from Groups 4 to 7. *Molecules* 29 (4), (2024): 824.
IF(2023) = 4.927
168. Kostova, I. Survey of Main Group Metals and Metalloids in Cancer Treatment. *Inorganics* 12 (1), (2024): 29.
IF(2023) = 3.149
169. Kostova, I. Survey of Recent Trends of IB-IVB Metals and Their Compounds in Cancer Treatment. *Innov. Discov.*, 2024; (accepted).

РЕДАКТОРСКИ ПРЕДГОВОРИ

170. Kostova I., V. K. Rastogi: Editorial of *Asian Chemistry Letters*, Vol. 12, Nos. 1&2, 2008, X-XX., May 11, 2008.

- 171.**Kostova I.**: Editorial [Hot topic: Metal-containing drugs and novel coordination complexes in therapeutic anticancer applications - Part I (Guest Editor: Irena Kostova)] *Anti-Canc. Ag. Med. Chem.*, 10(4), 270-271, 2010.
IF = 3,144 Цитати:2
- 172.**Kostova I.**: Editorial [Hot topic: Metal-containing drugs and novel coordination complexes in therapeutic anticancer applications - Part II (Guest Editor: Irena Kostova)] *Anti-Canc. Ag. Med. Chem.*, 10(5), 352-353, 2010.
IF = 3,144 Цитати: 6
- 173.S. Gunasekaran, S. Mohan, C., Santhamma K.P. Rajappan Nair, Lalji Dixit, M.N. Ponnusamy, Debasish Battacharya, **Irena Kostova** (Eds), Proceedings on International Conference on Recent Advances in Applied Sciences (ICRAAS 2016) February 11-13, 2016, Associated and Published by Scientific Communications Research Academy (*SCRAI.ORG*), ISBN: 978-93-5254-981-8.
- 174.**Kostova I.**: Meet Our Editorial Board Member. *Recent Patents on Anti-Cancer Drug Discovery*, 2017, Vol. 12, No. 2, 101.
IF(2017) = 2.8
- 175.**Kostova I.**: Editorial to the Special Issue: “Synthesis of Organic Ligands and Their Metal Complexes in Medicinal Chemistry”. *Molecules*, 2022, 27(11), 3644.
IF(2021) = 4.927
- 176.**Kostova I.**: Editorial “Recent Advances and Perspectives in Cancer Drug Design” *Current Pharmaceutical Design*, 29(22), 1711-1712, 2023.
IF(2022) = 3.31
- 177.**Kostova I.**: Editorial: Frontiers in Chemistry: Metallodrugs in Cancer Therapy: Past, Present and New Strategies. *Frontiers in Chemistry*, 2024, 12:1428502.
IF(2023) = 5.545

МОНОГРАФИИ, ГЛАВИ ОТ КНИГИ

- 178.**Костова И.**, И. Манолов, П. Атанасов: Биологични свойства на кумарините. *Med. Rev.*, XL, Suppl. №1, 3-26, 2004, Централна медицинска библиотека – Медицински университет, София, 2004. ISBN: 954-8627-92-2.
- 179.**Kostova I.**, V. K. Rastogi: Theoretical and spectral investigations on lanthanide (III) complexes of biologically active ligands. In Proceedings of the international conference on molecular spectroscopy of advanced materials and biomolecules. Ed. Sajan, D; p. 11-12; Ref. №: 45015980, 212 pages; ISBN 978-93-82062-48-6. Publ. Year 2012.
- 180.**Kostova I.**: Platinum-Based Anticancer Agents. *Book "Frontiers in Anti-Cancer Drug Discovery"* (Volume 1 - a selection from the best articles published in the Bentham journal

'Recent Patents on Anti-Cancer Drug Discovery'): Editors: M. Iqbal Choudhary and Atta-ur-Rahman, ISBN: 978-1-60805-161-8, 298-340, 2010.

Цитати:5

181.Belskaya, N. P., Kostova, I., & Fan, Z.: Chapter 6. Thiazole cores as organic fluorophore units: synthesis and fluorescence., pp. 116-142, Editors: Orazio A. Attanasi, Pedro Merino, Domenico Spinelli In "*Targets in heterocyclic systems*" - Volume 23 (2019) Pubblicato su Società Chimica Italiana, (398 pages), pp. 116-142. ISBN 978-88-94952-16-2 ISSN 1724-9449.

Цитати: 8

182.Todorov L., Kostova I. Pyridine Heterocycles in the Therapy of Oncological Diseases. In *Exploring Chemistry with Pyridine Derivatives*. Publisher: Intech Open, 2022. DOI: 10.5772/intechopen.106406 <https://www.intechopen.com/online-first/83004>

183.Todorov L., Kostova I. Recent Trends in the Development of Novel Metal-Based Antineoplastic Drugs, pp. 31-65, In *Metal-Based Drugs: Past, Present and Future*, Edited by Adriana Corina Hangan and Roxana Liana Lucaciu, 2023, Academic Open Access Publishing, ISBN 978-3-0365-8412-6.

184.Kostova I. Occurrence and Classification of Chemical Elements, pp. 1-12, In *Biological and medical significance of chemical elements*, Edited by Irena Kostova, 2023, Bentham Science Publishers Executive, ISBN: 978-981-5179-01-9 (Print), ISBN: 978-981-5179-00-2 (Online), ISBN: 9789815179002.

185.Kostova I. Biological Functions of Elements of Main Groups, pp. 13-113, In *Biological and medical significance of chemical elements*, Edited by Irena Kostova, 2023, Bentham Science Publishers Executive, ISBN: 978-981-5179-01-9 (Print), ISBN: 978-981-5179-00-2 (Online), ISBN: 9789815179002.

186.Kostova I. Biological Functions of d- and f- Block Elements, pp. 114-183, In *Biological and medical significance of chemical elements*, Edited by Irena Kostova, 2023, Bentham Science Publishers Executive, ISBN: 978-981-5179-01-9 (Print), ISBN: 978-981-5179-00-2 (Online), ISBN: 9789815179002.

187.Kostova I. Application of Main Group Elements and Their Compounds in Medicine, pp. 184-228, In *Biological and medical significance of chemical elements*, Edited by Irena Kostova, 2023, Bentham Science Publishers Executive, ISBN: 978-981-5179-01-9 (Print), ISBN: 978-981-5179-00-2 (Online), ISBN: 9789815179002.

188.Kostova I. Application of d- and f- Block Elements and Their Compounds in Medicine, pp. 229-288, In *Biological and medical significance of chemical elements*, Edited by Irena Kostova, 2023, Bentham Science Publishers Executive, ISBN: 978-981-5179-01-9 (Print), ISBN: 978-981-5179-00-2 (Online), ISBN: 9789815179002.

УЧЕБНИЦИ, КНИГИ

- 189.Kostova I. & R. K. Soni: BIOINORGANIC CHEMISTRY, Shree Publishers & Distributors, 22/4735, Prakash Deep Build. Ansari Road, New Delhi-110002, ISBN: 9788183294249, 2012.
- 190.Ирена Костова: ОБЩА И НЕОРГАНИЧНА ХИМИЯ, учебник, Изд. “Софттрейд”, София, 2016, 500 стр. ISBN: 978-954-334-185-6.
- 191.Goswami, A. K., & Kostova, I. (2022). MEDICINAL AND BIOLOGICAL INORGANIC CHEMISTRY. Walter de Gruyter GmbH & Co KG., 148 стр. ISBN: 1501516116, 9781501516115.

Цитати: 1

- 192.Kostova I. BIOLOGICAL AND MEDICAL SIGNIFICANCE OF CHEMICAL ELEMENTS, 2023, Publisher: Bentham Science Publishers Executive, 1400 pages, ISBN: 978-981-5179-01-9 (Print), ISBN: 978-981-5179-00-2 (Online), ISBN: 9789815179002.

УЧЕБНИ ПОСОБИЯ

- 193.Практическо ръководство по обща и неорганична химия. А. Бакалова, А. Николова, Б. Младенова, И. Костова, Д. Иванов, Изд. “Филвест”, София, 2007. ISBN: 978-954-9346-03-9.
- 194.Практическо ръководство по обща и неорганична химия. А. Бакалова, А. Николова, Б. Младенова, И. Костова, Д. Иванов, Изд. “Алианс принт”, София, 2012. ISBN: 978-954-9346-03-9.
- 195.General and Inorganic Chemistry – Manual. A. Bakalova, A. Nikolova, B. Mladenova, I. Kostova, D. Ivanov, Ed. “Alians print”, Sofia, 2012.
- 196.Ирена Костова, Нина Кънева-Добревска, Албена Йорданова, Таня Димитрова. Всичко за кандидат-студентите по химия и опазване на околната среда за специалностите медицина, дентална медицина, фармация. Клет България - Химия и опазване на околната среда, 2023, ISBN 9789543447268.

ДРУГИ

- 197.Костова И.: „Българо-Индийско сътрудничество в Медицински Университет-София”, вестник „Медицински Университет“, бр.2, стр. 18, 2010.
- 198.Hekmat, A.; Saso, L.; Lather, V.; Pandita, D.; Kostova, I.; Saboury, A.A. Nanomaterials of Group XIV Elements in Breast Cancer. Available online: <https://encyclopedia.pub/entry/38487>
- 199.Todorov, L.; Saso, L.; Kostova, I. Antioxidant Activity of Coumarins. Available online: <https://encyclopedia.pub/entry/44132>
- 200.Kostova, I. Main Group Metals and Metalloids in Cancer Treatment. Available online: <https://encyclopedia.pub/entry/53933>