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СПИСЪК НА НАУЧНИТЕ ПУБЛИКАЦИИ ЗА УЧАСТИЕ В КОНКУРСА

Брой на публикации – 95, от тях с импакт-фактор (IF) – 92 и импакт-ранг (SJR) – 3.

Научни статии в списания с импакт фактор/ранг

1. Velikova V, Angelov M, Ivanova A - Die Photosyntheserate der Baumarten in anthropogenbelasteter Umgebung. *Compt. rend. Acad. bulg. Sci.* 45(8): 131-134, 1992. (IF₁₉₉₂ 0.075)
2. Velikova V, Angelov M, Ivanova A - Veraenderungen der Akkumulation von freien Prolin und Eiweiss in Blaettern von einigen Baumarten unter den anthropogenbelasteten Standorten. *Compt. rend. Acad. bulg. Sci.* 45(9): 123-124, 1992. (IF₁₉₉₂ 0.075)
3. Todorov D, Alexieva V, Karanov E, Velichkov D, Velikova V - Effect of certain dicarboxylic acid monoesters on growth, chlorophyll content, chlorophyllase and peroxidase activities, and gas-exchange of young maize plants. *Journal of Plant Growth Regulation* 11: 233-238, 1992. (IF₁₉₉₂ 1.24)
4. Angelov M, Tsonev T, Dobrinova K, Velikova V, Stoyanova T - Changes in some photosynthetic parameters in pea plants after treatment with cobalt. *Photosynthetica* 28 (2): 289-295, 1993. <https://kramerus.lib.cas.cz/view/uuid:62663741-3e61-489f-82c2-b9fd117ec196?page=uuid:1fb745e9-6749-4231-b278-7866aba4a64e>. (IF₁₉₉₃ 0.304)
5. Uzunova A, Velikova V - Influence of Cu²⁺ on the photosynthesis and the structure of photo-synthetic apparatus in pea (*Pisum sativum*, var. Ran). *Compt. rend. Acad. bulg. Sci.* 48 (5): 107-110, 1995. (IF₁₉₉₂ 0.075)
6. Velikova V, Yordanov I, Kurteva M - Photosynthetic characteristic of bean plants (*Phaseolus vulgaris* L.) with diffewrent pH of simulated acid rain. II. Changes in the rate of photosynthesis and transpiration. *Compt. rend. Acad. bulg. Sci.* 49 (11-12): 111-114, 1996. (IF₁₉₉₂ 0.075)
7. Yordanov I, Tsonev T, Georgieva K, Merakchiiska-Nikolova M, Velikova V, Kruleva L - Influence of carbamide cytokinin 4-PU30 on the photosynthesis of bean plants endured mild high temperature stress. *Compt. rend. Acad. bulg. Sci.* 50 (5): 99-102, 1997. (IF₁₉₉₂ 0.075)
8. Yordanov I, Tsonev T, Goltsev V, Kruleva L, Velikova V - Interactive effect of water deficit and high temperature on photosynthesis in sunflower and maize plants. 1. Changes in the parameters of chlorophyll fluorescence induction kinetics and fluorescence quenching. *Photosynthetica* 33(3-4): 391-402, 1997. <https://kramerus.lib.cas.cz/view/uuid:3ca0a28b-4ce4-11e1-1431-001143e3f55c?page=uuid:3ca0a2d4-4ce4-11e1-1431-001143e3f55c>. (IF₁₉₉₇ 0.941)
9. Velikova V, Yordanov I, Kurteva M, Tsonev T - Effects of simulated acid rain on the photosynthetic characteristics of *Phaseolus vulgaris* L. *Photosynthetica* 34 (4): 523-535, 1997. <https://doi.org/10.1023/A:1006857311410>.

(IF₁₉₉₇ 0.941)

10. Velikova V, Yordanov I - Effects of simulated acid rain on photosynthetic apparatus of bean plants in dependence from pH-values, mode of action and duration. *Compt. rend. Acad. bulg. Sci.* 51 (5 - 6), 63-66, 1998.

(IF₁₉₉₂ 0.075)

11. Stoyanova D, Velikova V - Effects of simulated acid rain on chloroplast ultrastructure of primary leaves of *Phaseolus vulgaris* L. *Biologia plantarum* 40 (4): 589-595, 1998. <https://link.springer.com/article/10.1023/A:1001761421851>.

(IF₁₉₉₈ 0.566)

12. Velikova V, Yordanov I, Georgieva K, Tsonev T, Goltsev V - Effects of exogenous polyamines applied separately and in combination with simulated acid rain on functional activity of photosynthetic apparatus. *Journal of Plant Physiology* 153 (3-4): 299-307, 1998. [https://doi.org/10.1016/S0176-1617\(98\)80155-7](https://doi.org/10.1016/S0176-1617(98)80155-7). (IF₁₉₉₈ 1.195)

13. Velikova V, Tsonev T, Yordanov I - Light- and CO₂-responses of photosynthesis and chlorophyll fluorescence characteristics in bean plants after simulated acid rain. *Physiologia Plantarum* 107: 77-83, 1999. <https://doi.org/10.1034/j.1399-3054.1999.100111.x>. (IF₁₉₉₉ 2.46)

14. Yordanov I, Velikova V, Tsonev T - Influence of drought, high temperature, and carbamide cytokinin 4-PU-30 on photosynthetic activity of bean plants. 1. Changes in chlorophyll fluorescence quenching. *Photosynthetica* 37: 447-457, 1999. <https://link.springer.com/article/10.1023/A:1007163928253>. (IF₁₉₉₉ 0.734)

15. Tsonev T, Simidjiev I, Georgieva K, Velikova V, Yordanov I, Cseh Z, Garab G - Heat-induced changes in the chlorophyll fluorescence of pea chloroplasts. *Compt. rend. Acad. Sci. Bulg.* 53 (6): 99-102, 2000. https://www.researchgate.net/publication/252478046_Heat-Induced_Changes_in_the_Chlorophyll_Fluorescence_of_Pea_Chloroplasts#fullTextFileContent. (IF₁₉₉₂ 0.075)

16. Velikova V, Yordanov I, Edreva A - Oxidative stress and some antioxidant systems in acid rain-treated bean plants. Protective role of exogenous polyamines. *Plant Science* 151: 59-66, 2000. [https://doi.org/10.1016/S0168-9452\(99\)00197-1](https://doi.org/10.1016/S0168-9452(99)00197-1). (IF₂₀₀₀ 1.259)

17. Georgieva K, Tsonev T, Velikova V, Yordanov I - Photosynthetic activity during high temperature treatment of pea plants. *Journal of Plant Physiology* 157: 169-176, 2000. [https://doi.org/10.1016/S0176-1617\(00\)80187-X](https://doi.org/10.1016/S0176-1617(00)80187-X). (IF₂₀₀₀ 0.943)

18. Yordanov I, Velikova V, Tsonev T - Plant responses to drought, acclimation, and stress tolerance (review). *Photosynthetica* 38 (1): 171-186, 2000. <https://doi.org/10.1023/A:1007201411474>. (IF₂₀₀₀ 0.482)

19. Doncheva S, Stoyanova Z, Velikova V - The influence of succinate on zinc toxicity of pea plants. *Journal of Plant Nutrition* 24 (6): 789-806, 2001. <https://doi.org/10.1081/PLN-100103774>. (IF₂₀₀₁ 0.577)

20. Loreto F, Velikova V, Di Marco G - Respiration in the light measured by ¹²CO₂ emission in ¹³CO₂ atmosphere in maize leaves. *Australian Journal of Plant Physiology* 28 (11): 1103-1108, 2001. <https://doi.org/10.1071/PP01091>. (IF₂₀₀₁ 1.562)

21. Loreto F, Velikova V - Isoprene produced by leaves protects the photosynthetic apparatus against ozone damage, quenches ozone products, and reduces lipid peroxidation of cellular membranes. *Plant Physiology* 127: 1781-1787, 2001. <https://doi.org/10.1104/pp.010497>. (IF₂₀₀₁ 5.105)

22. Yordanov I, Georgieva K, **Velikova V**, Tsonev T, Merakchiiska-Nikolova M, Paunova S, Stefanov D - Response of photosynthetic apparatus of different wheat genotypes to drought. I. Laboratory experiments under controlled light and temperature conditions. *Compt. rend. Acad. Sci. Bulg.* 54 (12): 79-84, 2001. (IF₁₉₉₂ 0.075)
23. **Velikova V**, Tsonev T, Edreva A, Gürel A, Hakerlerler H - Effects of reddening of cotton (*Gossypium hirsutum* L.) leaves on functional activity of photosynthetic apparatus. *Photosynthetica* 40 (3): 449-452, 2002. <https://doi.org/10.1023/A:1022695513060>. (IF₂₀₀₂ 0.773)
24. Tsonev T, **Velikova V**, Georgieva K, Hyde PF, Jones HG – Low temperature enhances photosynthetic down-regulation in French bean (*Phaseolus vulgaris* L.) plants. *Annals of Botany* 91: 343-352, 2003. <https://doi.org/10.1093/aob/mcg020>. (IF₂₀₀₃ 1.37)
25. **Velikova V**, Edreva A, Loreto F - Endogenous isoprene protects *Phragmites australis* leaves against singlet oxygen. *Physiologia Plantarum* 122, 219-225, 2004. <https://doi.org/10.1111/j.0031-9317.2004.00392.x>. (IF₂₀₀₄ 2.017)
26. Stoyanova-Koleva D, Edreva A, **Velikova V**, Gürel A - Effect of reddening of cotton (*Gossypium hirsutum* L.) leaves on the ultrastructure of mesophyll cells. *Photosynthetica* 43(2): 313-316, 2005. <https://doi.org/10.1007/s11099-005-0052-8>. (IF₂₀₀₅ 0.810)
27. **Velikova V**, Loreto F - On the relationship between isoprene emission and thermotolerance in *Phragmites australis* leaves exposed to high temperatures and during the recovery from a heat stress. *Plant Cell and Environment* 28, 318-327, 2005. <https://doi.org/10.1111/j.1365-3040.2004.01314.x>. (IF₂₀₀₅ 3.601)
28. **Velikova V**, Pinelli P, Loreto F - Consequences of inhibition of isoprene synthesis in *Phragmites australis* leaves exposed to elevated temperatures. *Agriculture, Ecosystems & Environment* 106 (2-3): 209-217, 2005. <https://doi.org/10.1016/j.agee.2004.10.009>. (IF₂₀₀₅ 1.495)
29. **Velikova V**, Pinelli P, Pasqualini S, Reale L, Ferranti F, Loreto F – Isoprene decreases the concentration of nitric oxide in leaves exposed to elevated ozone. *New Phytologist* 166: 419-426, 2005. <https://doi.org/10.1111/j.1469-8137.2005.01409.x>. (IF₂₀₀₅ 4.285)
30. **Velikova V**, Tsonev T, Pinelli P, Alessio GA, Loreto F - Localized O₃-fumigation for field-studies of the impact of different ozone levels on photosynthesis, respiration, electron transport rate and isoprene emission in Mediterranean oak species. *Tree Physiology* 25: 1523-1532, 2005. <https://doi.org/10.1093/treephys/25.12.1523>. (IF₂₀₀₅ 2.101)
31. **Velikova V**, Loreto F, Tsonev T, Brilli F, Edreva A – Isoprene prevents the negative consequences of high temperature stress in *Platanus orientalis* leaves. *Functional Plant Biology* 33(10): 931-940, 2006. <https://doi.org/10.1071/fp06058>. (IF₂₀₀₆ 2.272)
32. Edreva AM, **Velikova VB**, Tsonev TsD - Phenylamides in plants (review). *Russ Journal of Plant Physiology* 54 (3), 287-301, 2007. <https://doi.org/10.1134/S1021443707030016>. (IF₂₀₀₇ 0.439)
33. Lambrev P, Tsonev T, **Velikova V**, Georgieva K, Lambrev M, Yordanov I, Kovács L, Gyöző G – Trapping of the quenched conformation associated with non-photochemical quenching of chlorophyll fluorescence at low temperature. *Photosynthesis Research* 94: 321-332, 2007. <https://doi.org/10.1007/s11120-007-9216-7>. (IF₂₀₀₇ 2.139)
34. **Velikova V**, Edreva A, Tsonev T, Jones HG – Singlet oxygen quenching by phenylamides and their parent compounds. *Zeitschrift fur Naturforschung* 62c: 833-838, 2007. <https://doi.org/10.1515/znc-2007-11-1211>. (IF₂₀₀₇ 0.756)

35. Velikova V, Loreto F, Brillì F, Stefanov D, Yordanov I - Characterization of juvenile and adult leaves of *Eucalyptus globulus* showing distinct heteroblastic development: photosynthesis and volatile isoprenoids. *Plant Biology* 10: 55-64, 2008. <https://doi.org/10.1055/s-2007-964964>. (IF₂₀₀₈ 1.944)
36. Fares S, Brillì F, Noguès I, Velikova V, Tsonev T, Dagli S, Loreto F – Isoprene emission and primary metabolism in *Phragmites australis* grown under different phosphorus levels. *Plant Biology* 10: 38-43, 2008. <https://doi.org/10.1055/s-2007-965429>. (IF₂₀₀₈ 1.944)
37. Velikova V – Isoprene as a tool for plant protection against abiotic stresses – review. *Journal of Plant Interactions* 3: 1-15, 2008. <https://doi.org/10.1080/17429140701858327>. (SJR₂₀₀₈ 0.176)
38. Velikova V, Fares S, Loreto F – Isoprene and nitric oxide reduce damages in leaves exposed to oxidative stress. *Plant Cell and Environment* 31: 1882-1894, 2008. <https://doi.org/10.1111/j.1365-3040.2008.01893.x>. (IF₂₀₀₈ 4.666)
39. Vickers CE, Possell M, CI Cojocariu, Velikova VB, Laothawornkitkul J, Ryan A, Mullineaux PM, Hewitt CN – Isoprene synthesis protects transgenic plants from oxidative stress. *Plant Cell and Environment* 32: 520-531, 2009. <https://doi.org/10.1111/j.1365-3040.2009.01946.x>. (IF₂₀₀₉ 5.081)
40. Velikova V, Tsonev T, Barta C, Centritto M, Koleva D, Stefanova M, Busheva M, Loreto F – BVOC emissions, photosynthetic characteristics and changes in chloroplast ultra-structure of *Platanus orientalis* L. exposed to elevated CO₂ and high temperature. *Environmental Pollution* 157: 2629-2637, 2009. <https://doi.org/10.1016/j.envpol.2009.05.007>. (IF₂₀₀₉ 3.426)
41. Velikova V, Salerno G, Frati F, Peri E, Conti E, Colazza S, Loreto F – Influence of feeding and oviposition by phytophagous pentatomids on photosynthesis of herbaceous plants. *Journal of Chemical Ecology* 36: 629-641, 2010. <https://doi.org/10.1007/s10886-010-9801-7>. (IF₂₀₁₀ 2.486)
42. Koleva D, Stefanova M, Ganeva TS, Velikova V, Tsonev T, Loreto F - Structural responses of *Platanus orientalis* L. leaves to elevated CO₂ concentration and high temperature. *Journal of Environmental Protection and Ecology* 11 (1), 122-129, 2010 (IF₂₀₁₀ 0.178)
43. Tsonev T, Velikova V, Yildiz-Aktas L, Gürel A, Edreva A - Effect of water deficit and potassium fertilization on photosynthetic activity in cotton plants. *Plant Biosystems* 145 (4), 841-847, 2011. <http://dx.doi.org/10.1080/11263504.2011.560199>. (IF₂₀₁₁ 1.418)
44. Velikova V, Tsonev T, Loreto F, Centritto M - Changes in photosynthesis, mesophyll conductance to CO₂, and isoprenoid emissions in *Populus nigra* plants exposed to excess nickel. *Environmental Pollution* 159, 1058-1066, 2011. <https://doi.org/10.1016/j.envpol.2010.10.032>. (IF₂₀₁₁ 3.746)
45. Velikova V, Várkonyi Z, Szabó M, Maslenkova L, Nogues I, Kovács L, Peeva V, Busheva M, Garab G, Sharkey TD, Loreto F - Increased thermostability of thylakoid membranes in isoprene-emitting leaves probed with three biophysical techniques. *Plant Physiology* 157, 905-916, 2011. <https://doi.org/10.1104/pp.111.182519>. (IF₂₀₁₁ 6.535)
46. Krumova S, Zhiponova M, Dankov K, Rashkov G, Tsonev T, Russinova E, Velikova V, Busheva M – Effects of enhanced brassinosteroid perception on photosynthesis in *Arabidopsis thaliana* line BRIOE. *Compt. rend. Acad. Sci. Bulg.* 64 (7), 967-972, 2011. <http://hdl.handle.net/1854/LU-8604764>. (IF₂₀₁₁ 0.210)

47. Velikova V, Sharkey TD, Loreto F - Stabilization of thylakoid membranes in isoprene-emitting plants reduces formation of reactive oxygen species. *Plant Signaling & Behavior* 7(1), 139-141, 2012. <https://doi.org/10.4161/psb.7.1.18521>. (SJ_R2012 0.723)
48. Velikova V, La Mantia T, Lauteri M, Michelozzi M, Nogues I, Loreto F - The impact of winter flooding with saline water on foliar carbon uptake and the volatile fraction of leaves and fruits of lemon (*Citrus x limon* L. (Burm. f.)) trees. *Functional Plant Biology* 39 (3), 199-213, 2012. <http://dx.doi.org/10.1071/FP11231>. (IF₂₀₁₂ 2.929)
49. Beckett M, Loreto F, Velikova V, Brunetti C, Di Ferdinando M, Tattini M, Calfapietra C, Farrant JM - Photosynthetic limitations and volatile and non-volatile isoprenoids in the poikilochlorophyllous resurrection plant *Xerophyta humilis* during dehydration and rehydration. *Plant, Cell and Environment* 35 (12): 2061-2074, 2012. <https://doi.org/10.1111/j.1365-3040.2012.02536.x>. (IF₂₀₁₂ 5.215)
50. Brilli F, Tsonev T, Mahmood T, Velikova V, Loreto F, Centritto M - Ultradian variation of isoprene emission, photosynthesis, mesophyll conductance and optimum temperature sensitivity for isoprene emission in water-stressed *Eucalyptus citriodora* saplings. *Journal of Experimental Botany* 64(2): 519-528, 2013. <https://doi.org/10.1093/jxb/ers353>. (IF₂₀₁₃ 5.794)
51. Krumova S, Zhiponova M, Dankov K, Velikova V, Balashev K, Andreeva T, Russinova E, Taneva S - Brassinosteroids regulate the thylakoid membrane architecture and the photosystem II function. *Journal of Photochemistry and Photobiology B*, 126, 97-104, 2013. <https://doi.org/10.1016/j.jphotobiol.2013.07.008>. (IF₂₀₁₃ 2.803)
52. Loreto F, Pollastri S, Fineschi S, Velikova V - Volatile isoprenoids and their importance for protection against environmental constraints in the Mediterranean area. *Environmental and Experimental Botany* 103, 99-106, 2014 (Review). <http://dx.doi.org/10.1016/j.envexpbot.2013.09.005>. (IF₂₀₁₄ 3.359)
53. Sablok G, Fu Y, Bobbio V, Laura M, Rotino G, Bagnaresi P, Allavena A, Velikova V, Viola R, Loreto F, Li M, Varotto C - Fuelling genetic and metabolic exploration of C3 bioenergy crops through the first reference transcriptome of *Arundo donax* L. *Plant Biotechnology Journal* 12(5), 554-567, 2014 <https://doi.org/10.1111/pbi.12159>. (IF₂₀₁₄ 5.752)
54. Velikova V, Ghirardo A, Vanzo E, Merl J, Hauck SM, Schnitzler J-P - Genetic manipulation of isoprene emissions in poplar plants remodels the chloroplast proteome. *Journal of Proteome Research* 13 (4), 2005-2018, 2014. <https://doi.org/10.1021/pr401124z>. (IF₂₀₁₄ 4.245)
55. Tattini M, Velikova V, Vickers C, Brunetti C, Di Ferdinando M, Trivellini A, Fineschi S, Agati G, Ferrini F, Loreto F - Isoprene production in transgenic tobacco alters isoprenoids, non-structural carbohydrates and phenylpropanoids metabolism, and protects photosynthesis from drought stress. *Plant, Cell and Environment* 37 (8), 1950-1964, 2014. <https://doi.org/10.1111/pce.12350>. (IF₂₀₁₄ 6.96)
56. Centritto M, Haworth M, Marino G, Pallozi E, Tsonev T, Velikova V, Nogues I, Loreto F - Isoprene emission aids recovery of photosynthetic performance in transgenic *Nicotiana tabacum* following high intensity acute UV-B exposure. *Plant Science* 226, 82-91, 2014. <https://doi.org/10.1016/j.plantsci.2014.06.004>. (IF₂₀₁₄ 3.607)
57. Tattini M, Loreto F, Fini A, Guidi L, Brunetti C, Velikova V, Gori A, Ferrini F - Isoprenoids and phenylpropanoids are part of the antioxidant defense orchestrated daily by drought stressed *Platanus x acerifolia* plants during Mediterranean summers. *New Phytologist* 207, 613-626, 2015. <https://doi.org/10.1111/nph.13380>. (IF₂₀₁₅ 7.210)

58. Ahrar M, Doneva D, Koleva D, Romano A, Rodeghiero M, Tsonev T, Biasioli F, Stefanova M, Peeva V, Wohlfahrt G, Loreto F, Varotto C, **Velikova V** - Isoprene emission in the monocot Arundineae tribe in relation to functional and structural organization of the photosynthetic apparatus. *Environmental and Experimental Botany* 119: 87-95, **2015**. <https://doi.org/10.1016/j.envexpbot.2015.04.010>. (IF₂₀₁₅ 3.712)
59. **Velikova V**, Müller C, Ghirardo A, Rock TM, Aichler M, Walch A, Schmitt-Kopplin P, Schnitzler JP - Knocking down isoprene emission modifies the lipid matrix of thylakoid membranes and influences the chloroplast ultrastructure in poplar. *Plant Physiology* 168: 859-870, **2015**. <https://doi.org/10.1104/pp.15.00612>. (IF₂₀₁₅ 6.280)
60. Vanzo E, Merl-Pham J, **Velikova V**, Ghirardo A, Lindermayr C, Hauck SM, Bernhardt J, Riedel K, Durner J, Schnitzler J-P – Modulation of protein S-nitrosylation by isoprene emission in poplar. *Plant Physiology* 170 (4), 1945-1961, **2016**. <https://doi.org/10.1104/pp.15.01842>. (IF₂₀₁₆ 6.456)
61. Fu Y, Poli M, Sablok G, Wang B, Liang Y, La Porta N, **Velikova V**, Loreto F, Li M, Varotto C - Dissection of early transcriptional responses to water stress in *Arundo donax* L. by unigene-based RNA-Seq. *Biotechnology for Biofuels* 9, 54, **2016**. <https://doi.org/10.1186/s13068-016-0471-8>. (IF₂₀₁₆ 5.203)
62. Arena C, Tsonev T, Doneva D, De Micco V, Michelozzi M, Brunetti C, Centritto M, Fineschi S, **Velikova V**, Loreto F - The effect of light quality on growth, photosynthesis, leaf anatomy and secondary metabolites of a monoterpene-emitting herbaceous species (*Solanum lycopersicum* L.) and an isoprene-emitting tree (*Platanus orientalis* L.). *Environmental and Experimental Botany* 130, 122-132, **2016**. <https://doi.org/10.1016/j.envexpbot.2016.05.014>. (IF₂₀₁₆ 4.369)
63. **Velikova V**, Brunetti C, Tattini M, Doneva D, Ahrar M, Tsonev T, Stefanova M, Ganeva T, Gori A, Ferrini F, Varotto C, Loreto F - Physiological significance of isoprenoids and phenylpropanoids in drought response of Arundinoideae species with contrasting habitats and metabolism. *Plant, Cell and Environment* 39, 2185-2197, **2016**. <https://doi.org/10.1111/pce.12785>. (IF₂₀₁₆ 6.173)
64. Astier J, Loake G, **Velikova V**, Gaupels F – Editorial: Interplay between NO signalling, ROS and the antioxidant system in plants. *Frontiers in Plant Science* 7:1731, **2016**. <https://doi.org/10.3389/fpls.2016.01731>. (IF₂₀₁₆ 4.298)
65. Tatar Ö, Konakchiev A, Tsonev T, **Velikova V**, Gesheva E, Bayram E, Vitkova A, Edreva A - Plant-soil water status-induced changes in physiological and biochemical properties of yarrow. *Journal of Essential Oil Bearing Plants* 19 (7): 1776-1787, **2016**. <https://doi.org/10.1080/0972060X.2015.1137239>. (IF₂₀₁₆ 0.493)
66. Baldacchini C, Castanheiro A, Maghakyan N, Sgrigna G, Verhelst J, Alonso R, Amorim J, Bellan P, Breuste J, Bühler O, Cântar I, Cariñanos P, Carriero G, Churkina G, Dinca L, Esposito R, Gawronski S, Kern M, Le Thiec D, Moretti M, Ningal T, Rantzoudi E, Sinjur I, Stojanova B, Aničić Urošević M, **Velikova V**, Zivojinovic I, Sahakyan L, Calfapietra C, Samson R - How does the amount and composition of PM deposit on *Platanus acerifolia* leaves change across different cities in Europe? *Environmental Science & Technology* 51 (3), 1147–1156, **2017**. <http://pubs.acs.org/doi/abs/10.1021/acs.est.6b04052>. (IF₂₀₁₇ 6.653)
67. Doneva D, Ahrar M, Tsonev T, Loreto F, Varotto C, **Velikova V** - The role of isoprene in two Arundineae species exposed to progressive drought. *Compt. rend. Acad. bulg. Sci.* 70(2): 203-212, **2017**. http://www.proceedings.bas.bg/content/2017_2_content.html#. (IF₂₀₁₇ 0.27)
68. Ahrar M, Doneva D, Tattini M, Brunetti C, Gori A, Rodeghiero M, Wohlfahrt G, Biasioli F, Varotto C, Loreto F, **Velikova V** – Phenotypic differences determine drought stress responses in ecotypes of *Arundo donax* adapted to

- different environments. *Journal of Experimental Botany* 68(9): 2439-2451, 2017. <https://doi.org/10.1093/jxb/erx125>. (IF₂₀₁₇ 5.354)
69. Li M, Xu J, Alarcon AA, Carlin S, Barbaro E, Cappellin L, Velikova V, Vorska U, Loreto F, Varotto C – In planta recapitulation of isoprene synthase evolution from ocimene synthases. *Molecular Biology and Evolution* 34(10):2583-2599, 2017. <https://doi.org/10.1093/molbev/msx178>. (IF₂₀₁₇ 10.217)
70. Hristozkova M, Geneva M, Stancheva I, Velikova V – LED spectral composition effects on mycorrhizal symbiosis formation with tomato plants. *Applied Soil Ecology* 120, 189-196, 2017. <https://doi.org/10.1016/j.apsoil.2017.08.010>. (IF₂₀₁₇ 2.916)
71. Petrova N, Koleva P, Velikova V, Tsonev T, Andreeva T, Taneva S, Krumova S, Danova K – Relations between photosynthetic performance and polyphenolics productivity of *Atemisia alba* Turra in *in vitro* tissue culture. *International Journal Bioautomation* 22(1), 73-82, 2018. <https://doi.org/10.7546/ijba.2018.22.1.73-82>. (SJR₂₀₁₈ 0.267)
72. Hristozkova M, Gigova L, Geneva M, Stancheva I, Velikova V, Marinova G - Influence of mycorrhizal fungi and microalgae dual inoculation on basil plants performance. *Gesunde Pflanzen* 70(2): 99-107, 2018. <https://doi.org/10.1007/s10343-018-0420-5>. (IF₂₀₁₈ 0.789)
73. Velikova V, Tsonev T, Tattini M, Arena C, Krumova S, Koleva D, Peeva V, Stojchev S, Todinova S, Izzo LG, Brunetti C, Stefanova M, Taneva S, Loreto F. Physiological and structural adjustments of two ecotypes of *Platanus orientalis* L. from different habitats in response to drought and re-watering. *Conservation Physiology* 6(1):coy073, 2018. <https://doi.org/10.1093/conphys/coy073>. (IF₂₀₁₈ 3.634)
74. Brunetti C, Tattini M, Guidi L, Velikova V, Ferrini F, Fini A. An integrated overview of physiological and biochemical responses of *Celtis australis* to drought stress. *Urban Forestry & Urban Greening* 46, art. No 126480, 2019. <https://doi.org/10.1016/j.ufug.2019.126480>. (IF₂₀₁₉ 4.021)
75. Bowditch E, Santopuoli G, Binder F, del Rio M, La Porta N, Kluvankova T, Lesinski J, Motta R, Pach M, Panzacchi P, Pretzsch H, Temperli C, Tonon G, Smith M, Velikova V, Weatherall A, Tognetti R. What is Climate-Smart Forestry? A definition from a multinational collaborative process focused on mountain regions of Europe. *Ecosystem Services* 43, art. number 101113, 2020. <https://doi.org/10.1016/j.ecoser.2020.101113>. (IF₂₀₂₀ 7.490)
76. Dimitrova S, Paunov M, Pavlova B, Dankov K, Kouzmanova M, Velikova V, Tsonev T, Kalaji HM, Goltsev V. Photosynthetic efficiency of two *Platanus orientalis* L. ecotypes exposed to moderately high temperature – JIP-test analysis. *Photosynthetica* 58 (SI): 657-670, 2020. <https://ps.ueb.cas.cz/pdfs/phs/2020/02/46.pdf>. (IF₂₀₂₀ 3.189)
77. Velikova V, Arena C, Izzo LG, Tsonev T, Koleva D, Tattini M, Roeva O, De Maio A, Loreto F. Functional and structural leaf plasticity determine photosynthetic performances during drought stress and recovery in two *Platanus orientalis* populations from contrasting habitats. *International Journal of Molecular Sciences* 21(11), 3912, 2020. <https://doi.org/10.3390/ijms21113912>. (IF₂₀₂₀ 5.923)
78. Doneva D, Pál M, Brankova L, Szalai G, Tajti J, Khalil R, Ivanovska B, Velikova V, Misheva S, Janda T, Peeva V. The effects of putrescine pre-treatment on osmotic stress responses in drought-tolerant and drought-sensitive wheat seedlings. *Physiologia Plantarum* 171(2): 200-216, 2021. <https://doi.org/10.1111/pp1.13150>. (IF₂₀₂₁ 5.081)
79. Vitale E, Velikova V, Tsonev T, Ferrandino I, Capriello T, Arena C. The interplay between light quality and biostimulant application affects the antioxidant capacity and photosynthetic traits of soybean (*Glycine max* L.). *Plants* 10(5), 861. 2021. <https://doi.org/10.3390/plants10050861>. (IF₂₀₂₁ 4.658)

80. Velikova V, Petrova N, Kovács L, Petrova A, Koleva D, Tsonev T, Taneva S, Petrov P, Krumova S. Single-walled carbon nanotubes modify leaf micromorphology, chloroplast ultrastructure and photosynthetic activity of pea plants. *International Journal of Molecular Sciences* 22(9):4878, 2021. <https://doi.org/10.3390/ijms22094878>. (IF₂₀₂₁ 6.208)
81. Vitale E, Vitale L, Costanzo G, Velikova V, Tsonev T, Simoniello P, De Micco V, Arena C. Light spectral composition influences structural and eco-physiological traits of *Solanum lycopersicum* L. cv. 'Microtom' in response to High-LET Ionizing Radiation. *Plants* 10(8),1752, 2021. <https://doi.org/10.3390/plants10081752>. (IF₂₀₂₁ 4.658)
82. Petrova N, Paunov M, Petrov P, Velikova V, Goltsev V, Krumova S. Polymer-modified single-walled carbon nanotubes affect photosystem II photochemistry, intersystem electron transport carriers and photosystem I end acceptors in pea plants. *Molecules* 26(19):5958, 2021. <https://doi.org/10.3390/molecules26195958>. (IF₂₀₂₁ 4.927)
83. Walter GM, Clark J, Cristaudo A, Terranova D, Nevado B, Catara S, Paunov M, Velikova V, Filatov D, Cozzolino S, Hiscock SJ, Bridle JR. Adaptive divergence generates distinct plastic responses in two closely related *Senecio* species. *Evolution* 76(6):1229-1245, 2022. <https://doi.org/10.1111/evo.14478>. (IF₂₀₂₂ 4.171)
84. Popova AV, Vladkova R, Borisova P, Georgieva K, Mihailova G, Velikova V, Tsonev T, Ivanov AG. Photosynthetic response of lutein deficient mutant *lut2* of *Arabidopsis thaliana* to low temperature at high light. *Photosynthetica* 60(SI):108-118, 2022. <https://ps.ueb.cas.cz/getrevsrc.php?identification=public&mag=phs&raid=2811&type=fin&ver=3>. (IF₂₀₂₂ 2.482)
85. Vitale E, Velikova V, Tsonev T, Costanzo G, Paradiso R, Arena C. Manipulation of light quality is an effective tool to regulate photosynthetic capacity and fruit antioxidant properties of *Solanum lycopersicum* L. cv. 'Microtom' in a controlled environment. *PeerJ* 10:e13677, 2022. <https://doi.org/10.7717/peerj.13677>. (IF₂₀₂₂ 3.061)
86. Delfine S, Velikova VB, Mastrodonato F. Soil mulching influence spearmint yield, eco-physiological activities and essential oil content in rainfed environment of Southern Italy. *Agronomy* 12, art. 1521, 2022. <https://doi.org/10.3390/agronomy12071521>. (IF₂₀₂₂ 3.949)
87. Vitale E, Izzo LG, Amitrano C, Velikova V, Tsonev T, Simoniello P, De Micco V, Arena C. Light quality modulates photosynthesis and antioxidant properties of *B. vulgaris* L. plants from seeds irradiated with high-energy heavy ions: Implications for cultivation in space. *Plants* 11 (14), art. 1816, 2022. <https://doi.org/10.3390/plants11141816>. (IF₂₀₂₂ 4.658)
88. Velikova V, Dani KGS, Loreto F. Origin, evolution, and future of isoprene and nitric oxide interactions within leaves. *Journal of Experimental Botany* 74(3), 688-706, 2023, Darwin Review. <https://doi.org/10.1093/jxb/erac459>. (IF₂₀₂₂ 7.298)
89. Pollastri S, Velikova V, Castaldini M, Fineschi S, Ghirardo A, Renaut J, Schnitzler J-P, Sergeant K, Winkler B, Zorzan S, Loreto F. Isoprene-emitting tobacco plants are less affected by moderate water deficit under future climate change scenario and show adjustments of stress-related proteins in actual climate. *Plants* 12 (2), 333, 2023. <https://doi.org/10.3390/plants12020333>. (IF₂₀₂₂ 4.658)
90. Teneva I, Velikova V, Belkinova D, Moten D, Dzhambazov B. Allelopathic potential of the cyanotoxins Microcystin-LR and Cylindrospermopsin on green algae. *Plants* 12(6), 1403, 2023. <https://doi.org/10.3390/plants12061403>. (IF₂₀₂₂ 4.658)

91. Krumova S, Petrova A, Petrova N, Stoichev S, Ilkov D, Tsonev T, Petrov P, Koleva D, **Velikova V**. Seed priming with single-walled carbon nanotubes grafted with pluronic P85 preserves the functional and structural characteristics of pea plants. *Nanomaterials* 13(8):1332, 2023. <https://doi.org/10.3390/nano13081332>. (IF₂₀₂₂ 5.719)
92. Brunetti C, Moura BB, **Velikova V**. Editorial: Biogenic volatiles in natural and urban forest. *Frontiers in Plant Science* 14:1233612, 2023. <https://doi.org/10.3389/fpls.2023.1233612>. (IF₂₀₂₂ 6.627)
93. Krumova S, Petrova A, Koleva D, Petrova S, Stoichev S, Petrova N, Tsonev T, Petrov P, **Velikova V**. Priming of *Pisum sativum* seeds with stabilized Pluronic P85 nanomicelles. Effects on seedling development and photosynthetic function. *Photosynthetica* 61 (SI): 432-440, 2023. <https://ps.ueb.cas.cz/pdfs/phs/2023/04/03.pdf>. (IF₂₀₂₂ 2.482)
94. Petrova N, Todinova S, Petrov P, **Velikova V**, Krumova S. Foliar application of Pluronic-P85 grafted single-walled carbon nanotubes induces thylakoid membrane structural remodeling. *Acta Physiologiae Plantarum* 45:133, 2023. <https://doi.org/10.1007/s11738-023-03614-8>. (IF₂₀₂₂ 2.736)
95. Kalvachev Y, Vitale E, Arena C, Todorova T, Ilkov D, Velikova V. Ion-exchanged clinoptilolite as a substrate for space farming. *Agriculture* 14(3):350, 2024. <https://doi.org/10.3390/agriculture14030350>. (IF₂₀₂₂ 3.408)