С П И С Ъ К

на научните трудове на доц. д-р Виолета Борисова Великова

1. Ivanova A, **V Kostova** - Veränderung von ausgewählten Streβindikatoren in Acer platnoides L. und Acer pseudoplatanus L. im Stadtgebiet von Sofia. Tagungsbericht, *2 Symposium, Ausgewählte Probleme der Gehölzphysiologie- Gehölze, Mikroorganismen und Umwelt*, Juni 13-16, 1989, Tharandt, DDR: 137-139, **1989**

2. Иванова А, **В Великова** - Биоиндикация на стрес при *B. pendula* Roth. в условията на антропогенно замърсяване на София. *Физиология на растенията*, XVI 3: 76-82, **1990**

3. Velikova V, Ivanova A - Peroxydase activity as an idicator of the stress reaction in some tree species due to air pollution. *Proc. of Vth International Youth Symposium "Plant Metabolism Regulation"*, Varna, Bulgaria, October 8-13, 1990: 380-383, **1991**

4. Uzunova A, **Velikova V**, Angelov M - Cu^{2+}-effects upon pea plants. *Proc. of Vth International Youth Symposium "Plant metabolism regulation"* Varna, Bulgaria, October 8-13, 1990, 106-109, **1991**

5. Костова В, Иванова А - Биоиндикация на транспортно замърсяване на градската среда чрез *Taxus baccata* L. *Годишник на СУ "Св. Кл. Охридски", кн. 2 - Ботаника*, т. 81 (1988): 58-67, **1992**

6. Великова В, Иванова А - Оценка на замърсяването на градската среда чрез растителна биоиндикация с *Tilia cordata* Mill., *Tilia argentea* Desf. *Годишник на СУ "Св. Кл. Охридски", кн. 2 - Ботаника*, т. 82: 137-149, **1992**

7. Velikova V, Angelov M, Ivanova A - Die Photosyntheserate der Baumarten in anthropogenbelasteter Umgebung. *Compt. rend. Acad. bulg. Sci.* 45(8): 131-134, **1992** (**ИФ=0.219**)

8. 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** (**ИФ=0.219**)

9. 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** (**ИФ=2.066**)

10. Великова В, Узунова А - Изследване на механизмите на увреждане от изкуствен киселинен дъжд върху структурата и функциите на фотосинтетичния апарат на фиданки от широколистни видове. *Докл. Научно-практическа конференция "Екологични проблеми на земеделието"*, Агроеко - Пловдив, декември 1993, т.XXXVIII, кн.1: 93-96, **1993**

11. 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** (**ИФ=1.016**)

12. Uzunova A, **Velikova V** - Influence of Cu^{2+} 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**

(**ИФ=0.219**)

13. Узунова А, **Великова В** - Въздействие на изкуствен киселинен дъжд върху функционалната активност на фиданки от широколистни видове. В: *Сборник научни доклади, Втора Балканска Научна Конференция по проучване, опазване и използване на горските ресурси,* 3-5 юни, 1996, София, т. I: 233-237, **1996**

14. 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** (**ИФ=0.219**)

15. Yordanov I, Georgieva K, Tsonev T, **Velikova V** - Effect of cold hardening on some photosynthetic characteristics of pea plants. *Bulgarian Journal of Plant Physiology* 22 (1-2): 13-21, **1996**

16. Velikova V, Yordanov I - Changes in prompt chlorophyll fluorescence and oxygen evolution after bean plant treatment by artificial acid rain. *Bulgarian Journal of Plant Physiology* 22 (3-4): 14-24, **1996**

17. Velikova V, Yordanov I, Stoyanova D, Uzunova A - Effect of simulated acid rain on the structure and activity of bean plants photosynthetic apparatus. *Proceedings of 19th Panhellenic meeting of H. S. B. S. and Biological Meeting of Balcan Countries,* 15-18 May 1997, Thessaloniki, Greece: 431-432, **1997**

18. 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** (**ИФ=0.219**)

19. 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** (**ИФ=1.016**)

20. 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** (**ИФ=1.016**)

21. 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** (**ИФ=0.219**)

22. 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** (**ИФ=1.582**)

23. 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** (**ИФ=2.677**)

24. Velikova V, Tsonev T, Yordanov I - Light- and CO_2-responses of photosynthesis and chlorophyll fluorescence characteristics in bean plants after simulated acid rain. *Physiologia Plantarum* 107: 77-

83, **1999** (**ИФ=3.067**)

25. 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** (**ИФ=1.016**)

26. Tsonev T, **Velikova V**, Lambreva M, Stefanov D - Recovery of the photosynthetic apparatus in bean plants after high- and low-temperature induced photoinhibition. *Bulgarian Journal of Plant Physiology* 3-4: 45-53, **1999**

27. 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** (**ИФ=0.219**)

28. 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** (**ИФ=2.481**)

29. 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** (**ИФ=2.677**)

30. Yordanov I, **Velikova V**, Tsonev T - Plant responses to drought, acclimation, and stress tolerance (**review**). *Photosynthetica* 38 (1): 171-186, **2000** (**ИФ=1.016**)

31. Yordanov I, **Velikova V** - Photoinhibition of photosystem I (**review**). *Bulgarian Journal of Plant Physiology* 26 (1-2): 70-92, **2000**

32. 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** (**ИФ=0.726**)

33. Loreto F, **Velikova V**, Stella D, Tricoli D, Di Marco G - Measurements of mitochondrial respiration in the light and estimation of its refixation in C_3 and C_4 leaves. *PS2001 Proceedings 12th International Congress of Photosynthesis, August 18-23 August, Brisbane, Australia*, S29-004, **2001**

34. Loreto F, **Velikova V**, Di Marco G - Respiration in the light measured by $^{12}CO_2$ emission in $^{13}CO_2$ atmosphere in maize leaves. *Australian Journal of Plant Physiology* 28 (11): 1103-1108, **2001** (**ИФ=2.156**)

35. 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** (**ИФ=6.451**)

36. Velikova V, Cui X, Stella D, Loreto F - Ozone damage in leaves of forest tress is reduced by exogenous and endogenous isoprene. *Proc. International Conference "Forest Research: A challenge for an integrated European approach",* August 27 - 1 September **2001**, Thessaloniki, Greece: 265-268

37. Yordanov I, Tsonev T, **Velikova V**, Georgieva K, Ivanov P, Tsenov N, Petrova T - Changes in CO_2 assimilation, transpiration and stomatal resistance of different wheat cultivars experiencing drought under field conditions. *Bulgarian Journal of Plant Physiology*. 27 (3-4): 20-33, **2001**

38. 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 (ИФ=0.219)**

39. Yordanov I, Georgieva K, **Velikova V**, Tsonev T, Ivanov P, Tsenov N, Petrova T - Responses of photosynthetic apparatus of different wheat (*Triticum aestivum* l.) genotypes to drought under field conditions. II. Changes in O_2 evolution and chlorophyll fluorescence parameters – a possible basis for screening of drought tolerance. *Genetics and Breeding* 31 (3-4): 21-30, **2001/2002**

40. Velikova V, Ivanova A, Yordanov I – Changes in lipid composition of *Phaseolus vulgaris* leaves after simulated acid rain treatment. *Bulgarian Journal of Plant Physiology* 28 (1-2): 59-65, **2002**

41. 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 (ИФ=1.016)**

42. 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 (ИФ=3.388)**

43. Yordanov I, **V Velikova**, T Tsonev - Plant responses to drought and stress tolerance (**review**). *Bulgarian Journal of Plant Physiology., Special issue*: 187-206, **2003**

44. Velikova V, Edreva A, Loreto F - Endogenous isoprene protects *Phragmites australis* leaves against singlet oxygen. *Physiologia Plantarum* 122, 219-225, **2004 (ИФ=3.067)**

45. Edreva A, Gürel A, Hakerlerler H, Yagmur B, **Velikova V**, Tsonev T, Stoyanova-Koleva D, Gesheva E, Dagnon S, Akdemir H. - A complex study on the reddening of cotton leaves. In: Proceedings of the Plenary Meeting of Inter-Regional Cooperative Research Network on Cotton. 29 September-2 October **2004**, Thessaloniki, Greece, 138-147

46. 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 (ИФ=1.016)**

47. 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 (ИФ=5. 154)**

48. 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 (ИФ=2.790)**

49. 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 (ИФ=6.516)**

50. Velikova V, Tsonev T, Pinelli P, Alessio GA, Loreto F - Localized O_3-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 (ИФ=2.403)**

51. Velikova V, Barta C, Nogues I, Brilli F, Fares S, Loreto F - Isoprene in a changing environment – effect of high temperature and ozone on isoprene emission. Proc. First ACCENT Symposium, Urbino, September 12-16 **2005**, pp. 45-47

52. 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: 931-940, **2006 (ИФ=2.156)**

53. Velikova V - Endogenous isoprene and nitric oxide protect *Phragmites australis* plants against ozone stress. *iLEAPS Newsletter* (Integrated Land Ecosystem – Atmosphere Processes Study), No 3, 14-15, **2006**

54. Edreva A, **Velikova V**, Tsonev T, Gesheva E, Dagnon S, Loreto F, Gürel A, Hakerlerler A, Yagmur B, Akdemir H - Secondary metabolites: tools for stress protection in plants. *Proc. IV BBC "Plant, fungal and habitat diversity investigation and conservation*" - Sofia , 284-290, **2006**

55. Edreva AM, **Velikova VB**, Tsonev TsD - Phenylamides in plants (**review**). *Russ Journal of Plant Physiology*, 54 (3), 325-341, **2007 (ИФ=0.558)**

56. Lambrev P, Tsonev T, **Velikova V,** Georgieva K, Lambreva M, Yordanov I, Kovács L, Gyözö G – Trapping of the quenched conformation associated with non-photochemical quenching of chlorophyll fluorescence at low temperature. *Photosynthesis Research* 94: 321-332, **2007 (ИФ=2.410)**

57. Velikova V, Edreva A, Tsonev T, Jones HG – Singlet oxygen quenching by phenylamides and their parent compounds. *Zeitschrift fur Naturforschung* 62c: 833-838, **2007 (ИФ=0.718)**

58. Velikova V, Loreto F, Brilli1 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 (ИФ=2.409)**

59. Fares S, Brilli 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 (ИФ=2.409)**

60. Velikova V – Isoprene as a tool for plant protection against abiotic stresses – **review**. J*ournal of Plant Interactions* 3: 1-15, **2008 (ИФ=0.889)**

61. 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 (ИФ=5.154)**

62. Edreva A, **Velikova V**, Tsonev T, Dagnon S, Gürel A, Aktaş, Gesheva E – Stress-protective role of secondary metabolites: diversity of functions and mechanisms. *General and Applied Plant Physiology* v. XXXIV (1-2): 67-78, **2008**

63. 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** (**ИФ=5.154**)

64. 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 CO_2 and high temperature. *Environmental Pollution* 157: 2629-2637, **2009** (**ИФ=3.395**)

65. 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** (**ИФ=2.486**)

66. Koleva D, Stefanova M, Ganeva TS, **Velikova V**, Tsonev T, Loreto F - Structural responses of *Platanus orientalis* L. leaves to elevated CO_2 concentration and high temperature. *Journal of Environmental Protection and Ecology* 11 (1), 122-129, **2010** (**ИФ=0.178**)

67. Tsonev T, **Velikova V**, Yildiz-Aktas L, Gűrel A, Edreva A - Effect of water deficit and potassium fertilization on photosynthetic activity in cotton plants. *Plant Biosystems* **2011** (*in press,* available online:18 Jul 2011) (**ИФ=0.829**)

68. Velikova V, Tsonev T, Loreto F, Centritto M - Changes in photosynthesis, mesophyll conductance to CO_2, and isoprenoid emissions in *Populus nigra* plants exposed to excess nickel. *Environmental Pollution* 159, 1058-1066, **2011** (**ИФ=3.395**)

69. 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** (**ИФ=6.451**)

70. Krumova S, Zhiponova M, Dankov K, Rashkov G, Tsonev T, Russinova E, **Velikova V**, Busheva M – Effects of enhanced brassionsteroid perception on photosynthesis in *Arabidopsis thaliana* line *BRIOE*. *Compt. rend. Acad. Sci. Bulg.* 64 (7), 967-972, **2011** (**ИФ=0.219**)

71. 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), **2012** (**ADDENDA**)

72. 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* **2012** (**ИФ=2.156**) (**приета за печат**)

Класификация на научните публикации на доц. В. Великова по тип издания

Списание	Брой	№ от списъка	Импакт фактор (JCR2010)	Общ IF
I. Списания с IF:				
I.1. чуждестранни издания:				
New Phytologist	1	49	6.516	6.516
Plant Physiology	2	35, 69	6.451	12.902
Plant Cell and Environment	3	47, 61, 63	5.154	15.462
Environmental Pollution	2	64, 68	3.395	6.79
Annals of Botany	1	42	3.388	3.388
Physiologia Plantarum	2	24, 44	3.067	6.134
Agriculture, Ecosystems & Environment	1	48	2.790	2.79
Journal of Plant Physiology	2	23, 29	2.677	5.354
Journal of Chemical Ecology	1	65	2.486	2.486
Plant Science	1	28	2.481	2.481
Photosynthesis Research	1	56	2.410	2.41
Plant Biology	2	58, 59	2.409	4.818
Tree Physiology	1	50	2.403	2.403
*Australian Journal of Plant Physiology (FPB***)**	3	34, 52, 72	2.156	6.468
Journal of Plant Growth Regulation	1	9	2.066	2.066
Biologia plantarum	1	22	1.582	1.582
Photosynthetica	7	11, 19, 20, 25, 30, 41, 46	1.016	7.112
J*ournal of Plant Interactions*	1	60	0.889	0.889
Plant Biosystems	1	67	0.829	0.829
Journal of Plant Nutrition	1	32	0.726	0.726
Zeitschrift fur Naturforschung	1	57	0.718	0.718
Russ Journal of Plant Physiology	1	55	0.558	0.558
Journal of Environmental Protection and Ecology	1	66	0.178	0.178
I.2. български издания:				
Compt. rend. Acad. bulg. Sci.	9	7, 8, 12, 14, 18, 21 ,27, 38, 70	0.219	1.971
II. Списания без IF:				
II.1. чуждестранни списания:				
iLEAPS Newsletter	1	53	-	-
Plant, Signaling and Behavior	1	71	-	-
II.2. български списания				
Физ. на раст. (BJPP, GAPP)	9	2, 15, 16, 26, 31, 37, 40, 43, 62	-	-
Genetics and Breeding	1	39	-	-
Ann. de L'Univ. de Sofia "St. Kl. Ohridski"	2	5, 6	-	-
III. Сборници от конгреси, симпозиуми и конференции в чужбина	6	1, 17, 33, 36, 45, 51	-	-
IV. Сборници от конгреси, симпозиуми и конференции у нас	5	3, 4, 10, 13, 54	-	-
Общо	**72**			**97.031**

03.01.2012 год. Изготвил:

София /доц., д-р В. Великова/

Забележка:

→ 8 публикации (номера 14, 17, 20-24 и 28, от тях 7 с импакт фактор) са част от дисертацията за получаване на научната степен "Доктор".

→ 41 публикации (номера 1-13, 15, 16, 18, 19, 25-27, 29-39, 41-50, от тях 23 с импакт фактор) са представени за присъждане на научното звание "Доцент".

→ 23 публикации (номера 40, 51-72, от тях 18 с импакт фактор) са представени за участие в конкурса за научната длъжност "Професор"

/доц., д-р В. Великова/