

## СПИСЪК

### на научните публикации на доц. дбн Лиляна Т. Масленкова за участие в конкурса за професор

#### I. Научни трудове, публикувани в международни списания с IF и в специализирани международни издания:

##### I.1. Публикации, които са част от научните трудове за присъждане на научното звание „доцент“

1. Zeinalov Yu. and L. Maslenkova (1980). Analysis of action spectra of photosynthesis. *Photosynthetica*, 14(4), 512-516.
2. Zeinalov Yu. and L. Maslenkova (1980) Red drop of quantum efficiency and Emerson's second effect as direct consequences of the principle of non-additive action of light in photosynthesis. *Photosynthetica*, 14(4), 506-511.
3. Maslenkova L., Yu. Zanev and L. Popova (1989) Effect of abscisic acid on the photosynthetic oxygen evolution in barleychloroplasts. *Photosynthesis research.*, 21, 45-50.
4. Maslenkova L., Yu. Zanev, L. Popova (1990) Oxygen-evolving Activity of Thylakoids from Barley Plants Cultivated on different concentrations of Jasmonic Acid, *Plant Physiology*, 93 (4), 1316-1320.
5. Масленкова Л., Курбанова Л., Б. Кюрдов, С. Дадашева, Р. Гаджиева, Ю. Занев, Р. Гасанов (1990) Роль периферических полипептидов в функционировании кислородвыделяющих ФСII частиц высших растений, *Биохимия*, 55(12), 2122-2128.
6. Maslenkova L., I. Kurbanova, B. Kyurdov, O. Angelova, R. Ghadgieva, S. Dadasheva, R. Gasanov, Yu. Zanev (1991) Effect of Specific Extrinsic Polypeptides Release on Delayed Light Emission and Oxygen Evolving Patterns in Photosystem II Particles. *Photosynthetica*, 25, 512- 516.
7. Maslenkova L., T. Miteva, L. Popova (1992) Changes in the polypeptide patterns of barley seedlings exposed to jasmonic acid and salinity. *Plant Physiology*, 98, 700-707.

##### I.2. Научни трудове, публикувани след получаване на научното звание „доцент“, включени в дисертационния труд за присъждане на научната степен „доктор на биологическите науки“

8. Maslenkova L., Yu. Zanev and L. Popova ( 1993) Adaptation to salinity as monitored by PSII oxygen evolving reactions in Barley thylakoids". *Journal of Plant Physiology*, 142, 629-634.
9. Zeinalov Yu. and L. Maslenkova (1996) Mechanisms of photosynthetic oxygen evolution. *Handbook of Photosynthesis*, (M. Pessaraki, ed.), Marsel Dekker, inc., N.Y., 129-150.
10. Popova L., J. Stojnova, L. Maslenkova (1995) Involvement of abscisic acid in

photosynthetic response in *Hordeum vulgare* L. during salinity stress. *Plant Growth Regul.*, 14, 211-218.

11. Popova L., L. Maslenkova (1997) Involvement of jasmonic acid in photosynthetic process in *H. vulgare* L. during salinity stress. *Recent Res. Devel. in Plant Physiol.*, (S. G. Pandalai, ed.) 1, 29-43, Research Signpost.
12. Georgieva, K., I. Fedina, L. Maslenkova, V. Peeva (2003) Response of chlorina barley mutants to heat stress under low and high light, *Functional Plant Biology*, 30, 515-524.
13. Peeva, V. and L. Maslenkova (2004) Thermoluminescence study of Photosystem II activity in *Haberlea rhodopensis* and spinach leaves during desiccation, *Plant Biology*, 6, 319-324.
14. Georgieva, K., L. Maslenkova, V. Peeva, Y. Markovska, D. Stefanov & Z. Tuba (2005) Comparative study on the changes in photosynthetic activity of the homoiochlorophyllous desiccation-tolerant *Haberlea rhodopensis* and spinach leaves during desiccation and rehydration. *Photosynthesis research* 85:191-203.
15. Georgieva, K., Z. Szigeti, E. Sarvari, L. Gaspar, L. Maslenkova, V. Peeva, E. Peli and Z. Tuba (2007) Photosynthetic activity of homoiochlorophyllous desiccation tolerant plant *Haberlea rhodopensis* during dehydration and rehydration., *Planta*, 225 (4), pp. 955-964.

**I.3. Научни трудове, публикувани след получаване на научното звание „доцент“, извън включените в дисертационния труд за присъждане на научната степен „доктор на биологическите науки“**

16. Maslenkova L., B.R. Pencheva, Yu. Zeinalov (1994) Irradiance dependence and action spectra of photosynthesis. I. Theoretical consideration, *Photosynthetica*, 30(1) 35-44.
17. Popova, L.P., Maslenkova L.T., Yordanova, R.Y., Ivanova, A.P., Krantev, A.P., Szalai, G., Janda, T. (2009) Exogenous treatment with salicylic acid attenuates cadmium toxicity in pea seedlings, *Plant Physiology and Biochemistry*, Vol. 47, Issue 3, Pages 224-231.
18. Maslenkova L., Peeva V., Markovska Yu., Zeinalov Y. (2010) Thermoluminescence study of photosystem II activity in resurrection plant *Haberlea rhodopensis* during desiccation. *In: Handbook of Plant and Crop Stress*, Third Edition (ed. M. Pessarakli), CRC Press, Taylor&Francis Group).
19. Popova, L.P., Maslenkova L.T., Ivanova, A.P., Stojnova Z (2011) Role of Salicylic acid in alleviating heavy metal stress *In: Environmental adaptations and stress tolerance of plants in the era of climate change* (A. Parvaiz and M.N.V. Prasad, eds), 1<sup>st</sup> Edition, Springer LLC, USA.
20. Velikova V., Z. Várkonyi, M. Szabó, L. Maslenkova, I. Nogues, L. Kovács, V. Peeva, M. Busheva, G. Garab, T. D. Sharkey, Fr. Loreto (2011) Increased thermostability of thylakoid membranes in isoprene-emitting leaves probed with three biophysical techniques, *Plant Physiology*, Published on Aug. 1, as DOI:10.1104pp.111.182619

## **II. В български научни списания:**

### **II.1. Автореферат и публикации, които са част от научните трудове за присъждане на научното звание „доцент“**

21. Масленкова Л. (1984) Върху интерпретацията на спектрално-преходните ефекти в кислородния обмен при фотосинтезата (Автореферат) София.
22. Зейналов Ю., Л. Масленкова (1980) Върху някои временни зависимости при неадитивното действие на светлината в процеса на фотосинтезата. Физиология на растенията, VI(4), 9-18.
23. Зейналов Ю. и Л. Масленкова (1986) Влияние на повишената температура върху някои кинетични характеристики на кислородотделящата система при фотосинтезата. Физиология на растенията, XII(1), 3-12.
24. Занев Ю., Л. Масленкова (1987) Кинетика на кислородпродуциращите реакции и действие на 3-(3,4-dichlorophenyl)-1,1-dimethylurea в зависимост от хлоропластната структура. Физиология на растенията, 13, (1), 3-13.
25. Maslenkova L., N. Gambarova, T. Miteva, Yu. Zanev (1991) Changes in oxygen evolving activity of barley plants grown under NaCl salinity. Compt. rend. Acad. bulg. Sci., 44(8), 103-106.
26. Maslenkova L., O. Angelova, E. Lehoczki and Yu. Zanev (1992) The effect of 4-Chloro-5-(dimethylamino)-2-phenyl-3(2H)-pyridazinone (SAN 9785) on the photosynthetic oxygen evolving reactions in barley. Compt. rend. Acad. bulg. Sci., 45(6), 83-86.

### **II.2. Научни трудове, публикувани след получаване на научното звание „доцент“, включени в дисертационния труд за присъждане на научната степен „доктор на биологическите науки“**

27. Maslenkova L., S. Toncheva, O. Angelova, Yu. Zanev (1993) Further investigations on oxygen evolution in abscisic- and jasmonic acids treated barley plants. Compt. rend. Acad. Bulg. Sci., 46(1), 105-108.
28. Maslenkova L., Yu. Zeinalov (1995) Effect of some artificial electron donors and acceptors on the functioning of the photosynthetic oxygen evolving system. Bulgarian J. Plant Physiology, 20, 3-11.
29. Maslenkova L., N. Gambarova, Yu. Zeinalov (1995) NaCl-induced changes in oxygen evolving activity and thylakoid membrane patterns of barley plants. Adaptation to salinity. Bulg. J. Plant Physiology, 20, 29-35.
30. Maslenkova L., S. Toncheva, Yu. Zeinalov (1995) Effect of abscisic acid and jasmonic acid on the photosynthetic electron transport and oxygen evolving reactions in pea plants. Bulgarian J. Plant Physiology, 21(4), 48-55.
31. Zanev Y., L. Maslenkova (1996) A Computerised Equipment for Thermoluminescence investigations. Bulg. J. Plant Physiology, 22(3-4), 88-94.
32. Maslenkova L., S. Toncheva, O. Angelova, M. Busheva (1996) Impairment of photosystem II reactions in copper- and cobalt-treated pea plants as assayed by oxygen evolution and chlorophyll fluorescence of isolated chloroplasts. Compt. rend. Acad. Bulg. Sci., 49 (4), 71-74.

33. Maslenkova L., M. Busheva (1996) Structural and functional properties of purified PSII oxygen evolving complex in copper- and cobalt-treated pea plants. Compt. rend. Acad. Bulg. Sci., 49 (5), 91-94.
34. Maslenkova L., S. Toncheva (1996) A Me-Jasmonate induced salinity tolerance in barley seedlings. Compt. rend. Acad. Bulg. Sci., 49 (12).
35. Maslenkova L., Y. Zeinalov (1999) Thermoluminescence and oxygen evolution in JA-treated barley (*Hordeum vulgare* L.), Bulg. J of Plant Physiol., , 25 (1-2), 58-64
36. Maslenkova L., P. Homann (2000) Stabilized S<sub>2</sub> - state in leaves of desiccation tolerant resurrection fern *Polypodium polypodioides*. Compt. rend. Acad. Bulg. Sci., 53 (4), 99-102.
37. Maslenkova L., Yu. Zanev and P. Homann (2000) Comparative study of Photosystem II reactions in chloroplasts from desiccation tolerant ferns *Polypodium polypodioides*, *Polypodium virginianum* and desiccation sensitive spinach plants by thermoluminescence and oxygen evolution, Compt. rend. Acad. Bulg. Sci., 53(12), 81-86.

**II.3. Научни трудове, публикувани след получаване на научното звание „доцент”, извън дисертационния труд за присъждане на научната степен „доктор на биологическите науки”**

38. Maslenkova L., L. Popova, Yu. Zanev (1993) Adaptation to salinity as monitored by PSII oxygen evolving reactions in barley thylakoids. Compt. rend. Acad. Bulg. Sci., 46(1), 109 – 112.
39. Maslenkova L., S. Toncheva (1997) Water stress and ABA-induced changes in PSII activity as measured by thermoluminescence of barley leaves. Compt. rend. Acad. Bulg. Sci., 50 (2), 91-94.
40. Maslenkova L., S. Toncheva (1998) Salicylic acid-induced changes in Photosystem II reactions in barley plants. Compt. rend. Acad. Bulg. Sci., 51(11-12), 101-104.
41. Zeinalov, Y., L. Maslenkova (1999) Estimation of the quantum efficiency of photosynthesis. I. Theoretical ground and experimental approaches. Bulg. J. Plant Physiol., 25(1-2), 26-38.
42. Zeinalov, Y., L. Maslenkova (2000) On the action spectra of photosynthesis and spectral dependence of the quantum efficiency, Bulg. J. Plant Physiol, 26(1-2), 58-69.
43. Georgieva, K., L. Maslenkova (2001) Drought induced changes in Photosystem II activity in leaves from desiccation sensitive plant *Spinacia oleracea* and desiccation tolerant “resurrection” fern *Polypodium polypodioides*. Compt. Rend Acad. Bulg. Sci., 54(2), 67-72.
44. Maslenkova L., Peeva V., Stojnova Zh., Popova L. (2009) Salicylic acid – induced changes in photosystem II reactions in barley plants. Biotechnology & Biotechnological equipment, 23(2), 297-300.
45. Maslenkova L (2010) Thermoluminescence from photosynthesizing systems as a method for detection of early plant stress symptoms. Effect of desiccation on thermoluminescence emission parameters in mesophytic and poikilohydric plants. General and Applied Plant Physiology, 36 (1-2), 87-99.
46. Maslenkova L., V. Peeva, L. Brankova, I. Lazarova and L. Evstatieva. (2010) Screening by thermoluminescence method the quantity of biologically active

compounds from *Tribulus terrestris* plants with different origin Proc. Biotechnology & Biotechnological equipment, 24(2), 78-81.

47. Yordanova, R, Maslenkova L., Paunova S., Popova L. (2009) Sensitivity of photosynthetic apparatus of pea plants to heavy metal stress. Biotechnology & Biotechnological equipment, 23(2), 347-350.
48. Georgiev, G, L. Maslenkova, A. Ivanova, I. Lazarova and L. Evstatieva (2011) The effect of thidiazuron (dropp 'r) on the growth, photosynthetic activity and saponin content of puncture vine (*Tribulus terrestris* L.) Biotechnology & Biotechnological equipment, 24(2), 78-81.

### **III. Трудове, публикувани в пълен текст в сборници от конгреси, симпозиуми и конференции:**

49. Maslenkova L. and Yu. Zeinalov(1984) The chromatic transient effects and their explanation. Proc. Plant metabolism regulation, Varna, 24-29 Sept., 1983, 24-31.
50. Maslenkova L., O. Angelova and Yu. Zeinalov (1987) Studies on oxygen evolution in active oxygen evolving photosystem II particles Proc. of the IV Youth symposium on plant metabolism regulation, Varna, Oct. 6-10, 1986, 127-131.
51. Maslenkova L., O. Angelova and Yu. Zeinalov (1987) Oxygen evolution in NaCl-washed photosystem II particles from spinach chloroplasts - Proc. of the IV Youth symposium on plant metabolism regulation, Varna, Oct. 6- 10, 1986, 132-135.
52. Zanev Yu., L. Maslenkova, and O. Angelova (1987) The structure of chloroplast and the action of 3-(3,4-dichlorophenyl)-1,1-dimethylurea on the oxygen evolution. Proc. of the IV Intern. symposium on plant growth regulators, Pamporovo, Sept. 28 - Oct. 4, 1986, 543-546.
53. Maslenkova L., L. Popova, O. Angelova and Yu. Zanev (1988) Effect of the abscisic acid on the  $S_i$  states distribution and the mechanisms of the oxygen evolution. Proc. Intern Symposium on Plant Mineral Nutrition and Photosynthesis'87, part II, ed. S. Vaklina, 160-163.
54. Maslenkova L., O. Angelova, L. Popova and Yu. Zanev (1988) The action of the jasmonic acid on the kinetics of the oxygen evolution Proc. Intern Symposium on Plant Mineral Nutrition and Photosynthesis'87, part II, ed. S. Vaklina, 164 - 167.
55. Popova L., L. Maslenkova, Yu. Zanev, A. Ivanov, A. Christov (1990) Stomatal and non-stomatal response of photosynthesis in barley leaves after treatment with abscisic acid and jasmonic acid Colloquia Pflanzenphysiologie der Humboldt - Universit t zu Berlin No 13, Stomata'89, ed. Goring, p13-15. Physiol. Plant., 79(2), pt2, 130.
56. Пеева, В., Л. Масленкова (2001) Изолиране и ФС2 кислородотделяща активност на тилакоидни мембрани от "възкръсващия" ендемит *Haberlea rhodopensis* Доклади Нац конференция "Постижения и перспективи на водния режим и менералното хранене на растенията в България", т.2, София, 188-191.
57. Pouneva, I., L. Maslenkova, K. Bratanova, Ch. Christov (2002) Influence of some plant growth regulators on the process of infection in the host-parasite system *Scenedesmus-Phlyctidium*, Proc. IX Sci. Session Sofia State University, Biol. Faculty, Sofia, 29-30 Nov., 2001, vol. 95, 105-111.

58. Georgiev, G, L. Maslenkova, A. Ivanova, L. Evstatieva, A. Ivanova and L. Popova (2011) The effect of mineral nutrition on photosynthetic activity and saponin content on Puncture vine (*Tribulus terrestris* L.) Proc. 15<sup>th</sup> International congress on Photosynthesis 22-27 August 2010, Beijing, China.

#### IV. Автореферат на дисертация за присъждане на научната степен „Доктор на биологичните науки“

59. Масленкова Л. (2009) Хетерогенност на кислород-отделящите центрове и механизми на фотосинтетичното кислородно отделяне. Ролята им в процесите на увреждане и адаптация в условия на стрес (Автореферат) София.

#### Класификация на научните публикации на доц. дбн Лиляна Масленкова за участие в конкурса по тип издания

Списание	Брой	№ от списъка	IF (Tompson JCR2010)	Общ IF
<b>Списания с IF и специализирани международни издания:</b>				
Photosymthetica	4	1, 2, 6, 16	1.016	4.064
Photosynth. Research	2	3, 14	2.410	4.820
Plant Physiology	3	4, 7, 20	6.451	19.353
Биохимия (Russ.)	1	5	1.368	1.368
J. Plant Physiology	1	8	2.677	2.677
Plant Growth Regulation	1	10	1.630	1.630
Plant Biology	1	13	2.409	2.409
Functional Plant Biology	1	12	2.156	2.156
Planta	1	15	3.098	3.098
Plant Physiology Biochemistry	1	17	2.402	2.402
Book chapters		9, 11, 18, 19		
<b>Български научни списания:</b>				
CR acad. Bulg. Sci.	12	25-27, 32-34, 36, 37-40, 43,	0.219	2.628
Biotech. Biotec. Eq.	4	44, 46-48	0.503	2.012
Физиология на растенията (Bulg. J Plant Physiol., GAPP)	11	22-24, 28-31, 35, 41, 42, 45		
<b>Сборници от конгреси, симпозиуми и конференции</b>	10	49-58		
<b>Автореферати</b>	2	21, 59		
<b>Общо</b>	<b>59</b>			<b>48.617</b>