

Maya Velitchkova

List of Publications by Year in descending order

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56
papers

1,033
citations

471509

17
h-index

434195

31
g-index

57
all docs

57
docs citations

57
times ranked

1261
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon amelioration of manganese toxicity in Mn-sensitive and Mn-tolerant maize varieties. <i>Environmental and Experimental Botany</i> , 2009, 65, 189-197.	4.2	136
2	Temperature/light dependent development of selective resistance to photoinhibition of photosystem I. <i>FEBS Letters</i> , 1998, 430, 288-292.	2.8	126
3	Quality control of Photosystem II: Cleavage and aggregation of heat-damaged D1 protein in spinach thylakoids. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 838-846.	1.0	67
4	Response of photosynthesis of <i>Pisum sativum</i> to salt stress as affected by methyl jasmonate. <i>Photosynthetica</i> , 1998, 35, 89-97.	1.7	48
5	Heat stress-induced effects of photosystem I: an overview of structural and functional responses. <i>Photosynthesis Research</i> , 2017, 133, 17-30.	2.9	44
6	UV-B induced stress responses in three rice cultivars. <i>Biologia Plantarum</i> , 2010, 54, 571-574.	1.9	43
7	Tomato plants acclimate better to elevated temperature and high light than to treatment with each factor separately. <i>Plant Physiology and Biochemistry</i> , 2016, 104, 234-241.	5.8	41
8	Effect of pretreatment of barley seedlings with different salts on the level of UV-B induced and UV-B absorbing compounds. <i>Environmental and Experimental Botany</i> , 2006, 56, 225-230.	4.2	40
9	Temperature dependence of resonance Raman spectra of carotenoids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 1261-1265.	3.9	38
10	Heat-induced changes in the efficiency of P700 photo-oxidation in pea chloroplast membranes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1990, 4, 307-320.	3.8	30
11	Resonance Raman spectroscopy of carotenoids in Photosystem I particles. <i>Biophysical Chemistry</i> , 2005, 114, 129-135.	2.8	30
12	Methyl Jasmonate Counteract UV-B Stress in Barley Seedlings. <i>Journal of Agronomy and Crop Science</i> , 2009, 195, 204-212.	3.5	30
13	Comparison of thylakoid structure and organization in sun and shade <i>Haberlea rhodopensis</i> populations under desiccation and rehydration. <i>Journal of Plant Physiology</i> , 2014, 171, 1591-1600.	3.5	29
14	Selective Photobleaching of Chlorophylls and Carotenoids in Photosystem I Particles under High-Light Treatment. <i>Photochemistry and Photobiology</i> , 2007, 83, 1301-1307.	2.5	26
15	NaCl induced cross-acclimation to UV-B radiation in four Barley (<i>Hordeum vulgare</i> L.) cultivars. <i>Acta Physiologiae Plantarum</i> , 2008, 30, 561-567.	2.1	20
16	Low temperature and high light dependent dynamic photoprotective strategies in <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2020, 170, 93-108.	5.2	20
17	Variable thermal dissipation in a Photosystem I submembrane fraction. <i>Photosynthesis Research</i> , 1994, 40, 263-268.	2.9	19
18	High light-induced changes of 77 K fluorescence emission of pea thylakoid membranes with altered membrane fluidity. <i>Bioelectrochemistry</i> , 2005, 67, 81-90.	4.6	19

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19	Freezing tolerance of photosynthetic apparatus in the homoiochlorophyllous resurrection plant <i>Haberlea rhodopensis</i> . <i>Environmental and Experimental Botany</i> , 2020, 178, 104157.	4.2	19
20	UV-B response of green and etiolated barley seedlings. <i>Biologia Plantarum</i> , 2007, 51, 699-706.	1.9	14
21	Photobleaching of photosynthetic pigments in spinach thylakoid membranes. Effect of temperature, oxygen and DCMU. <i>Biophysical Chemistry</i> , 2004, 107, 25-32.	2.8	13
22	Differential temperature effects on dissipation of excess light energy and energy partitioning in lut2 mutant of <i>Arabidopsis thaliana</i> under photoinhibitory conditions. <i>Photosynthesis Research</i> , 2019, 139, 367-385.	2.9	13
23	The role of antioxidant defense in freezing tolerance of resurrection plant <i>Haberlea rhodopensis</i> . <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 1119-1133.	3.1	12
24	Recovery of photosynthetic activity of resurrection plant <i>Haberlea rhodopensis</i> from drought- and freezing-induced desiccation. <i>Photosynthetica</i> , 2020, 58, 911-921.	1.7	12
25	Effect of Membrane Fluidity on Photosynthetic Oxygen Production Reactions. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2007, 62, 253-260.	1.4	11
26	Acquired tolerance of the photosynthetic apparatus to photoinhibition as a result of growing <i>Solanum lycopersicum</i> at moderately higher temperature and light intensity. <i>Functional Plant Biology</i> , 2019, 46, 555.	2.1	11
27	UV-B-induced compounds as affected by proline and NaCl in <i>Hordeum vulgare</i> L. cv. Alfa. <i>Environmental and Experimental Botany</i> , 2005, 54, 182-191.	4.2	10
28	Response of isolated thylakoid membranes with altered fluidity to short term heat stress. <i>Physiology and Molecular Biology of Plants</i> , 2009, 15, 43-52.	3.1	9
29	UV-B induced alteration of oxygen evolving reactions in pea thylakoid membranes as affected by scavengers of reactive oxygen species. <i>Biologia Plantarum</i> , 2014, 58, 319-327.	1.9	9
30	Immobilization and topochemical mechanism of a new β -amylase extracted from <i>Pergularia tomentosa</i> . <i>Process Biochemistry</i> , 2018, 64, 143-151.	3.7	9
31	Effects of Short-Time Heat Stress on the Parameters of Cation induced Increase of Chlorophyll Fluorescence in Pea Thylakoid Membranes. <i>Journal of Plant Physiology</i> , 1993, 142, 144-150.	3.5	7
32	Effect of Membrane Fluidity on Photoinhibition of Isolated Thylakoids Membranes at Room and Low Temperature. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2001, 56, 369-374.	1.4	7
33	Effect of high temperature on dehydration-induced alterations in photosynthetic characteristics of the resurrection plant <i>Haberlea rhodopensis</i> . <i>Photosynthetica</i> , 2013, 51, 630-640.	1.7	7
34	Different impact of high light on the response and recovery of wild type and lut2 mutant of <i>Arabidopsis thaliana</i> at low temperature. <i>Theoretical and Experimental Plant Physiology</i> , 2021, 33, 95-111.	2.4	7
35	Effects of cholesterol and benzyl alcohol on fluorescence transients of pea thylakoids. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998, 42, 240-244.	3.8	6
36	The Lack of Lutein Accelerates the Extent of Light-Induced Bleaching of Photosynthetic Pigments in Thylakoid Membranes of <i>Arabidopsis thaliana</i> . <i>Photochemistry and Photobiology</i> , 2016, 92, 436-445.	2.5	6

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37	Editorial: Molecular Basis of the Response of Photosynthetic Apparatus to Light and Temperature Stress. <i>Frontiers in Plant Science</i> , 2017, 8, 288.	3.6	6
38	Mutual orientation of absorbing chromophores and long wavelength pigments in photosystem I particles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1998, 54, 639-644.	3.9	5
39	Different kinetics of photoinactivation of photosystem I-mediated electron transport and P700 in isolated thylakoid membranes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2003, 69, 41-48.	3.8	5
40	Mechanisms of photosystem I activity stimulation in trypsin-treated pea chloroplast membranes. <i>Bioelectrochemistry</i> , 1992, 27, 27-32.	1.0	3
41	Polarized fluorescence spectroscopy of oriented isolated spinach Photosystem I particles. , 2000, 65, 15-28.		3
42	UV-B response of greening barley seedlings. <i>Acta Biologica Hungarica</i> , 2009, 60, 195-210.	0.7	3
43	Involvement of Reactive Oxygen Radicals in Photoinhibition of Primary Photosynthetic Reactions—Effect of Temperature and Oxygen Radical Scavengers. <i>Biotechnology and Biotechnological Equipment</i> , 2009, 23, 511-515.	1.3	3
44	Mechanism of Heat Induced Stimulation of PSI Activity in Pea Chloroplasts. , 1989, , 587-590.		3
45	Surface Charge Density Changes in Isolated Photosystem II Membranes Induced by Depletion of the Extrinsic Polypeptides of the Oxygen Evolving System. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1990, 45, 627-632.	1.4	3
46	Physiological Responses of Higher Plants to UV-B Radiation. <i>Environmental Science and Engineering</i> , 2009, , 283-305.	0.2	3
47	Trypsin-induced changes in energy distribution between photosystem I and photosystem II in pea thylakoid membranes. <i>Bioelectrochemistry</i> , 1995, 37, 69-72.	1.0	2
48	Valorization of a plant β -amylase: Immobilization and dataset on the kinetic process. <i>Data in Brief</i> , 2018, 16, 386-391.	1.0	2
49	Effects of 24-epibrassinolide Pre-treatment on UV-B-Induced Changes in the Pigment Content of Pea Leaves. <i>Comptes Rendus De L'Academie Bulgare Des Sciences</i> , 2013, 66, .	0.2	2
50	Light Intensity Dependence of P700 Photooxidation in Heat-Stressed Pea Chloroplasts. , 1988, , 245-248.		1
51	Thylakoid Membrane Fluidity Changes the Response of Isolated Pea Chloroplasts to High Temperature. , 1998, , 1823-1826.		1
52	Mechanisms of photosystem I activity stimulation in trypsin-treated pea chloroplast membranes. <i>Journal of Electroanalytical Chemistry</i> , 1992, 342, 27-32.	3.8	0
53	Orientation of optical transitions of pigments in isolated photosystem I particles. , 1998, , .		0
54	<title>Light induced changes in Raman scattering of carotenoid molecules in Photosystem I particles</title>. , 2007, , .		0

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55	Sensitivity of two Ecotypes of <i>Arabidopsis thaliana</i> (Cvi and Te) towards UV-B Irradiation. Comptes Rendus De L'Academie Bulgare Des Sciences, 2013, 66, .	0.2	0
56	Spin Label Study of Apomembranes and Purple Membranes. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1993, 48, 500-503.	1.4	0