Szilvia Z TÃ³th

List of Publications by Year
in descending order

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Version: 2024-02-01

41 papers	2,504 citations	236925 25 h-index	276875 41 g-index
45 all docs	45 docs citations	45 times ranked	2517 citing authors

#	Article	IF	Citations
1	Microfluidic Platforms Designed for Morphological and Photosynthetic Investigations of Chlamydomonas reinhardtii on a Single-Cell Level. Cells, 2022, 11, 285.	4.1	6
2	Viable protoplast formation of the coral endosymbiont alga Symbiodinium spp. in a microfluidics platform. Lab on A Chip, 2022, 22, 2986-2999.	6.0	4
3	Interplay between hydrogen production and photosynthesis in a green alga expressing an active photosystem I-hydrogenase chimera. International Journal of Hydrogen Energy, 2022, , .	7.1	3
4	Ascorbate inactivates the oxygenâ€evolving complex in prolonged darkness. Physiologia Plantarum, 2021, 171, 232-245.	5.2	10
5	Thin cell layer cultures of Chlamydomonas reinhardtii L159I-N230Y, pgrl1 and pgr5 mutants perform enhanced hydrogen production at sunlight intensity. Bioresource Technology, 2021, 333, 125217.	9.6	13
6	H⁺ Transport by K⁺ EXCHANGE ANTIPORTER3 Promotes Photosynthesis and Growth in Chloroplast ATP Synthase Mutants. Plant Physiology, 2020, 182, 2126-2142.	4.8	32
7	Ascorbate Deficiency Does Not Limit Nonphotochemical Quenching in Chlamydomonas reinhardtii. Plant Physiology, 2020, 182, 597-611.	4.8	21
8	Paradigm Shift in Algal H2 Production: Bypassing Competitive Processes. Trends in Biotechnology, 2019, 37, 1159-1163.	9.3	22
9	Light Control of Salt-Induced Proline Accumulation Is Mediated by ELONGATED HYPOCOTYL 5 in Arabidopsis. Frontiers in Plant Science, 2019, 10, 1584.	3.6	28
10	Elimination of the flavodiiron electron sink facilitates long-term H2 photoproduction in green algae. Biotechnology for Biofuels, 2019, 12, 280.	6.2	34
11	Effects of selenate and red Se-nanoparticles on the photosynthetic apparatus of Nicotiana tabacum. Photosynthesis Research, 2019, 139, 449-460.	2.9	38
12	The mechanism of photosystemâ€<scp>II</scp> inactivation during sulphur deprivationâ€induced H₂ production in Chlamydomonas reinhardtii. Plant Journal, 2018, 94, 548-561.	5.7	50
13	Concentration Does Matter: The Beneficial and Potentially Harmful Effects of Ascorbate in Humans and Plants. Antioxidants and Redox Signaling, 2018, 29, 1516-1533.	5.4	30
14	Water-splitting-based, sustainable and efficient H2 production in green algae as achieved by substrate limitation of the Calvinâ€“Bensonâ€“Bassham cycle. Biotechnology for Biofuels, 2018, 11, 69.	6.2	61
15	Regulation of ascorbate biosynthesis in green algae has evolved to enable rapid stressâ€induced response via the VTC2 gene encoding GDPâ€<scp>l</scp>â€galactose phosphorylase. New Phytologist, 2017, 214, 668-681.	7.3	47
16	Identification and characterization of a stable intermediate in photosystem I assembly in tobacco. Plant Journal, 2017, 90, 478-490.	5.7	21
17	On the pathways feeding the H2 production process in nutrient-replete, hypoxic conditions. Commentary on the article â€œLow oxygen levels contribute to improve photohydrogen production in mixotrophic non-stressed Chlamydomonas culturesâ€, by Jurado-Oller et al., Biotechnology for Biofuels, published September 7, 2015; 8:149. Biotechnology for Biofuels, 2017, 10, 116.	6.2	2
18	Ascorbate accumulation during sulphur deprivation and its effects on photosystem II activity and H₂ production of the green alga Chlamydomonas reinhardtii. Plant, Cell and Environment, 2016, 39, 1460-1472.	5.7	35

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19	Identification of the Elusive Chloroplast Ascorbate Transporter Extends the Substrate Specificity of the PHT Family. Molecular Plant, 2015, 8, 674-676.	8.3	19
20	Photosynthetic complex stoichiometry dynamics in higher plants: biogenesis, function, and turnover of ATP synthase and the cytochrome b6f complex. Journal of Experimental Botany, 2015, 66, 2373-2400.	4.8	87
21	Photosynthetic complex stoichiometry dynamics in higher plants: environmental acclimation and photosynthetic flux control. Frontiers in Plant Science, 2014, 5, 188.	3.6	141
22	Inducible Repression of Nuclear-Encoded Subunits of the Cytochrome b6f Complex in Tobacco Reveals an Extraordinarily Long Lifetime of the Complex Â Â. Plant Physiology, 2014, 165, 1632-1646.	4.8	41
23	Chlorophyll a fluorescence: beyond the limits of the QA model. Photosynthesis Research, 2014, 120, 43-58.	2.9	137
24	The physiological roles and metabolism of ascorbate in chloroplasts. Physiologia Plantarum, 2013, 148, 161-175.	5.2	33
25	Ascorbate Alleviates Donor-Side Induced Photoinhibition by Acting as Alternative Electron Donor to Photosystem II. Advanced Topics in Science and Technology in China, 2013, , 505-509.	0.1	0
26	Thermoluminescence and P700 redox kinetics as complementary tools to investigate the cyclic/chlororespiratory electron pathways in stress conditions in barley leaves. Physiologia Plantarum, 2012, 144, 83-97.	5.2	15
27	Stimulatory effect of ascorbate, the alternative electron donor of photosystem II, on the hydrogen production of sulphur-deprived Chlamydomonas reinhardtii. International Journal of Hydrogen Energy, 2012, 37, 8864-8871.	7.1	11
28	The chl a fluorescence intensity is remarkably insensitive to changes in the chlorophyll content of the leaf as long as the chl a/b ratio remains unaffected. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 770-779.	1.0	65
29	The Physiological Role of Ascorbate as Photosystem II Electron Donor: Protection against Photoinactivation in Heat-Stressed Leaves Â Â. Plant Physiology, 2011, 156, 382-392.	4.8	136
30	Evidence for a fluorescence yield change driven by a light-induced conformational change within photosystem II during the fast chlorophyll a fluorescence rise. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1032-1043.	1.0	88
31	Synthetic Antisense Oligodeoxynucleotides to Transiently Suppress Different Nucleus- and Chloroplast-Encoded Proteins of Higher Plant Chloroplasts Â. Plant Physiology, 2011, 157, 1628-1641.	4.8	40
32	Experimental Evidence for Ascorbate-Dependent Electron Transport in Leaves with Inactive Oxygen-Evolving Complexes. Plant Physiology, 2009, 149, 1568-1578.	4.8	99
33	Role of phosphatidylglycerol in the function and assembly of Photosystem II reaction center, studied in a cdsA-inactivated PAL mutant strain of Synechocystis sp. PCC6803 that lacks phycobilisomes. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1184-1194.	1.0	38
34	Naturally Occurring Alternative Electron Donors of Photosystem II. , 2008, , 691-695.		0
35	Photosynthetic electron transport activity in heat-treated barley leaves: The role of internal alternative electron donors to photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 295-305.	1.0	126
36	A non-invasive assay of the plastoquinone pool redox state based on the OJIP-transient. Photosynthesis Research, 2007, 93, 193-203.	2.9	176

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37	Dark recovery of the Chl a fluorescence transient (OJIP) after light adaptation: The qT-component of non-photochemical quenching is related to an activated photosystem I acceptor side. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 787-797.	1.0	154
38	Development of photosystems 2 and 1 during leaf growth in grapevine seedlings probed by chlorophyll a fluorescence transient and 820 nm transmission in vivo. Photosynthetica, 2006, 44, 454-463.	1.7	41
39	Biophysical studies of photosystem II-related recovery processes after a heat pulse in barley seedlings (Hordeum vulgare L.). Journal of Plant Physiology, 2005, 162, 181-194.	3.5	96
40	Methylviologen and dibromothymoquinone treatments of pea leaves reveal the role of photosystem I in the Chl a fluorescence rise OJIP. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1706, 250-261.	1.0	386
41	In intact leaves, the maximum fluorescence level (FM) is independent of the redox state of the plastoquinone pool: A DCMU-inhibition study. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 275-282.	1.0	114