

Szilvia Z TÃ³th

List of Publications by Year in descending order

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41
papers

2,504
citations

236925

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276875

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Methylviologen and dibromothymoquinone treatments of pea leaves reveal the role of photosystem I in the Chl a fluorescence rise OJIP. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1706, 250-261.	1.0	386
2	A non-invasive assay of the plastoquinone pool redox state based on the OJIP-transient. <i>Photosynthesis Research</i> , 2007, 93, 193-203.	2.9	176
3	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. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 787-797.	1.0	154
4	Photosynthetic complex stoichiometry dynamics in higher plants: environmental acclimation and photosynthetic flux control. <i>Frontiers in Plant Science</i> , 2014, 5, 188.	3.6	141
5	Chlorophyll a fluorescence: beyond the limits of the QA model. <i>Photosynthesis Research</i> , 2014, 120, 43-58.	2.9	137
6	The Physiological Role of Ascorbate as Photosystem II Electron Donor: Protection against Photoinactivation in Heat-Stressed Leaves. <i>Plant Physiology</i> , 2011, 156, 382-392.	4.8	136
7	Photosynthetic electron transport activity in heat-treated barley leaves: The role of internal alternative electron donors to photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 295-305.	1.0	126
8	In intact leaves, the maximum fluorescence level (FM) is independent of the redox state of the plastoquinone pool: A DCMU-inhibition study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1708, 275-282.	1.0	114
9	Experimental Evidence for Ascorbate-Dependent Electron Transport in Leaves with Inactive Oxygen-Evolving Complexes. <i>Plant Physiology</i> , 2009, 149, 1568-1578.	4.8	99
10	Biophysical studies of photosystem II-related recovery processes after a heat pulse in barley seedlings (<i>Hordeum vulgare</i> L.). <i>Journal of Plant Physiology</i> , 2005, 162, 181-194.	3.5	96
11	Evidence for a fluorescence yield change driven by a light-induced conformational change within photosystem II during the fast chlorophyll a fluorescence rise. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1032-1043.	1.0	88
12	Photosynthetic complex stoichiometry dynamics in higher plants: biogenesis, function, and turnover of ATP synthase and the cytochrome b6f complex. <i>Journal of Experimental Botany</i> , 2015, 66, 2373-2400.	4.8	87
13	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. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 770-779.	1.0	65
14	Water-splitting-based, sustainable and efficient H ₂ production in green algae as achieved by substrate limitation of the Calvin-Benson-Bassham cycle. <i>Biotechnology for Biofuels</i> , 2018, 11, 69.	6.2	61
15	The mechanism of photosystem II inactivation during sulphur deprivation-induced H ₂ production in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2018, 94, 548-561.	5.7	50
16	Regulation of ascorbate biosynthesis in green algae has evolved to enable rapid stress-induced response via the <i>VTC2</i> gene encoding GDP-l-galactose phosphorylase. <i>New Phytologist</i> , 2017, 214, 668-681.	7.3	47
17	Development of photosystems 2 and 1 during leaf growth in grapevine seedlings probed by chlorophyll a fluorescence transient and 820 nm transmission in vivo. <i>Photosynthetica</i> , 2006, 44, 454-463.	1.7	41
18	Inducible Repression of Nuclear-Encoded Subunits of the Cytochrome b6f Complex in Tobacco Reveals an Extraordinarily Long Lifetime of the Complex. <i>Plant Physiology</i> , 2014, 165, 1632-1646.	4.8	41

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19	Synthetic Antisense Oligodeoxynucleotides to Transiently Suppress Different Nucleus- and Chloroplast-Encoded Proteins of Higher Plant Chloroplasts <i>Å. Plant Physiology</i> , 2011, 157, 1628-1641.	4.8	40
20	Role of phosphatidylglycerol in the function and assembly of Photosystem II reaction center, studied in a <i>cdsA</i> -inactivated PAL mutant strain of <i>Synechocystis</i> sp. PCC6803 that lacks phycobilisomes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1184-1194.	1.0	38
21	Effects of selenate and red Se-nanoparticles on the photosynthetic apparatus of <i>Nicotiana tabacum</i> . <i>Photosynthesis Research</i> , 2019, 139, 449-460.	2.9	38
22	Ascorbate accumulation during sulphur deprivation and its effects on photosystem II activity and H ₂ production of the green alga <i>Chlamydomonas reinhardtii</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 1460-1472.	5.7	35
23	Elimination of the flavodiiron electron sink facilitates long-term H ₂ photoproduction in green algae. <i>Biotechnology for Biofuels</i> , 2019, 12, 280.	6.2	34
24	The physiological roles and metabolism of ascorbate in chloroplasts. <i>Physiologia Plantarum</i> , 2013, 148, 161-175.	5.2	33
25	H ⁺ Transport by K ⁺ EXCHANGE ANTIporter3 Promotes Photosynthesis and Growth in Chloroplast ATP Synthase Mutants. <i>Plant Physiology</i> , 2020, 182, 2126-2142.	4.8	32
26	Concentration Does Matter: The Beneficial and Potentially Harmful Effects of Ascorbate in Humans and Plants. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1516-1533.	5.4	30
27	Light Control of Salt-Induced Proline Accumulation Is Mediated by ELONGATED HYPOCOTYL 5 in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1584.	3.6	28
28	Paradigm Shift in Algal H ₂ Production: Bypassing Competitive Processes. <i>Trends in Biotechnology</i> , 2019, 37, 1159-1163.	9.3	22
29	Identification and characterization of a stable intermediate in photosystem I assembly in tobacco. <i>Plant Journal</i> , 2017, 90, 478-490.	5.7	21
30	Ascorbate Deficiency Does Not Limit Nonphotochemical Quenching in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2020, 182, 597-611.	4.8	21
31	Identification of the Elusive Chloroplast Ascorbate Transporter Extends the Substrate Specificity of the PHT Family. <i>Molecular Plant</i> , 2015, 8, 674-676.	8.3	19
32	Thermoluminescence and P700 redox kinetics as complementary tools to investigate the cyclic/chlororespiratory electron pathways in stress conditions in barley leaves. <i>Physiologia Plantarum</i> , 2012, 144, 83-97.	5.2	15
33	Thin cell layer cultures of <i>Chlamydomonas reinhardtii</i> L159I-N230Y, <i>pgr1</i> and <i>pgr5</i> mutants perform enhanced hydrogen production at sunlight intensity. <i>Bioresource Technology</i> , 2021, 333, 125217.	9.6	13
34	Stimulatory effect of ascorbate, the alternative electron donor of photosystem II, on the hydrogen production of sulphur-deprived <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8864-8871.	7.1	11
35	Ascorbate inactivates the oxygen-evolving complex in prolonged darkness. <i>Physiologia Plantarum</i> , 2021, 171, 232-245.	5.2	10
36	Microfluidic Platforms Designed for Morphological and Photosynthetic Investigations of <i>Chlamydomonas reinhardtii</i> on a Single-Cell Level. <i>Cells</i> , 2022, 11, 285.	4.1	6

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37	Viable protoplast formation of the coral endosymbiont alga <i>Symbiodinium</i> spp. in a microfluidics platform. Lab on A Chip, 2022, 22, 2986-2999.	6.0	4
38	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
39	On the pathways feeding the H ₂ production process in nutrient-replete, hypoxic conditions. Commentary on the article "Low oxygen levels contribute to improve photohydrogen production in mixotrophic non-stressed Chlamydomonas cultures", by Jurado-Oller et al., Biotechnology for Biofuels. published September 7, 2015; 8:149. Biotechnology for Biofuels. 2017, 10, 116.	6.2	2
40	Naturally Occurring Alternative Electron Donors of Photosystem II. , 2008, , 691-695.		0
41	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