

Mercedes Roncel

List of Publications by Year in descending order

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49
papers

684
citations

623734

14
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24
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51
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docs citations

51
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox properties of the photosystem II cytochromes b559 and c550 in the cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 206-216.	2.6	74
2	Factors determining the special redox properties of photosynthetic cytochrome b559. <i>FEBS Journal</i> , 2001, 268, 4961-4968.	0.2	58
3	Iron Deficiency Induces a Partial Inhibition of the Photosynthetic Electron Transport and a High Sensitivity to Light in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1050.	3.6	54
4	A laser flash photolysis study of the reduction of methyl viologen by conduction band electrons of TiO ₂ and Fe ³⁺ -Ti oxide photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1991, 55, 319-322.	3.9	42
5	Cytochrome c550 in the Cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 52869-52880.	3.4	36
6	Characterization of a photosynthetic <i>Euglena</i> strain isolated from an acidic hot mud pool of a volcanic area of Costa Rica. <i>FEMS Microbiology Ecology</i> , 2002, 42, 151-161.	2.7	27
7	Coupling of Solar Energy to Hydrogen Peroxide Production in the Cyanobacterium <i>Anacystis nidulans</i> . <i>Applied and Environmental Microbiology</i> , 1989, 55, 483-487.	3.1	24
8	Copper effect on cytochrome b559 of photosystem II under photoinhibitory conditions. <i>Physiologia Plantarum</i> , 2004, 120, 686-694.	5.2	23
9	Photosynthetic cytochrome c550. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1152-1163.	1.0	22
10	Changes in photosynthetic metabolism induced by tobamovirus infection in <i>Nicotiana benthamiana</i> studied in vivo by thermoluminescence. <i>New Phytologist</i> , 2007, 175, 120-130.	7.3	21
11	The role of the high potential form of the cytochrome b559: Study of <i>Thermosynechococcus elongatus</i> mutants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 908-919.	1.0	20
12	A thermoluminescence study of Photosystem II back electron transfer reactions in rice leaves – effects of salt stress. <i>Photosynthesis Research</i> , 2005, 84, 131-137.	2.9	16
13	A High Redox Potential Form of Cytochrome c550 in Photosystem II from <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 5985-5994.	3.4	16
14	Spectroscopic and functional characterization of cyanobacterium <i>Synechocystis</i> PCC 6803 mutants on the cytoplasmic-side of cytochrome b559 in photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 507-519.	1.0	16
15	Carbon dioxide-mediated decomposition of hydrogen peroxide in alkaline solutions. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1984, 80, 249.	1.0	14
16	A laser flash photolysis study of the photochemical activity of a synthesised ZrTiO ₄ . <i>Materials Letters</i> , 1999, 39, 370-373.	2.6	14
17	Hydrogen peroxide photoproduction by the semicarbazide-tris(2,2'-bipyridine)ruthenium(II)-oxygen system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1987, 40, 279-293.	3.9	13
18	Flavin-photosensitized oxidation of reduced c-type cytochromes. Reaction mechanism and comparison with photoreduction of oxidized cytochromes by flavin semiquinones. <i>FEBS Journal</i> , 1990, 191, 531-536.	0.2	13

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19	Light-induced degradation of cytochrome b 559 during photoinhibition of the photosystem II reaction center. <i>FEBS Letters</i> , 1999, 458, 87-92.	2.8	13
20	Flavin-mediated photoregulation of nitrate reductase. <i>Bioelectrochemistry</i> , 1989, 22, 355-364.	1.0	12
21	Afterglow thermoluminescence band as a possible early indicator of changes in the photosynthetic electron transport in leaves. <i>Photosynthesis Research</i> , 2005, 84, 167-172.	2.9	12
22	Peculiar properties of chlorophyll thermoluminescence emission of autotrophically or mixotrophically grown <i>Chlamydomonas reinhardtii</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 301-307.	3.8	12
23	Light-driven hydrogen peroxide production as a way to solar energy conversion. <i>Bioelectrochemistry</i> , 1987, 18, 71-78.	1.0	10
24	Light-induced absorption spectra of the D1-D2-cytochrome b 559 complex of Photosystem II: Effect of methyl viologen concentration. <i>Photosynthesis Research</i> , 2001, 67, 199-206.	2.9	10
25	Mutations of Cytochrome b559 and PsbJ on and near the QC Site in Photosystem II Influence the Regulation of Short-Term Light Response and Photosynthetic Growth of the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biochemistry</i> , 2016, 55, 2214-2226.	2.5	10
26	Solar energy conversion from water photolysis by biological and chemical systems. <i>Applied Biochemistry and Biotechnology</i> , 1991, 30, 61-81.	2.9	9
27	The heterologous expression of a plastocyanin in the diatom <i>Phaeodactylum tricornutum</i> improves cell growth under iron-deficient conditions. <i>Physiologia Plantarum</i> , 2021, 171, 277-290.	5.2	9
28	FLAVIN-MEDIATED PRODUCTION OF HYDROGEN PEROXIDE IN PHOTOELECTROCHEMICAL CELLS. <i>Photochemistry and Photobiology</i> , 1984, 40, 395-398.	2.5	8
29	Detergent effect on Cytochrome b559 electron paramagnetic resonance signals in the photosystem II reaction centre. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 437-442.	2.9	8
30	POTENTIOMETRIC and LASER FLASH PHOTOLYSIS STUDIES OF THE pH DEPENDENCE OF HYDROGEN PEROXIDE PRODUCTION BY THE SEMICARBAZIDE/LUMIFLAVIN/OXYGEN PHOTOSYSTEM. <i>Photochemistry and Photobiology</i> , 1987, 46, 965-970.	2.5	7
31	Hydrogen peroxide photoproduction sensitized with rose bengal with semicarbazide as the electron source. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1988, 45, 341-353.	3.9	7
32	Changes in photosynthetic electron transfer and state transitions in an herbicide-resistant D1 mutant from soybean cell cultures. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 694-702.	1.0	7
33	Thermoluminescence as a complementary technique for the toxicological evaluation of chemicals in photosynthetic organisms. <i>Aquatic Toxicology</i> , 2015, 158, 88-97.	4.0	7
34	The afterglow thermoluminescence band as an indicator of changes in the photorespiratory metabolism of the model legume <i>Lotus japonicus</i> . <i>Physiologia Plantarum</i> , 2019, 166, 240-250.	5.2	7
35	The afterglow photosynthetic luminescence. <i>Physiologia Plantarum</i> , 2021, 171, 268-276.	5.2	6
36	The photosynthetic cytochrome c 550 from the diatom <i>Phaeodactylum tricornutum</i> . <i>Photosynthesis Research</i> , 2017, 133, 273-287.	2.9	6

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37	On the reaction mechanism of flavin-sensitized photoregulation of <i>Monoraphidium braunii</i> nitrate reductase. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1991, 10, 211-220.	3.8	5
38	Characterization of a photosynthetic <i>Euglena</i> strain isolated from an acidic hot mud pool of a volcanic area of Costa Rica. <i>FEMS Microbiology Ecology</i> , 2002, 42, 151-161.	2.7	5
39	Reconstitution, spectroscopy, and redox properties of the photosynthetic recombinant cytochrome b 559 from higher plants. <i>Photosynthesis Research</i> , 2012, 112, 193-204.	2.9	4
40	Steady-state and laser flash induced photoreduction of yeast glutathione reductase by 5-deazariboflavin and by a viologen analog: stabilization of flavin adenine dinucleotide semiquinone species by complexation. <i>Biochemistry</i> , 1990, 29, 6102-6107.	2.5	3
41	Flavin-mediated photoregulation of nitrate reductase. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 276, 355-364.	0.1	2
42	The singular properties of photosynthetic cytochrome c 550 from the diatom <i>Phaeodactylum tricornutum</i> suggest new alternative functions. <i>Physiologia Plantarum</i> , 2019, 166, 199-210.	5.2	1
43	Site-Directed Mutagenesis of Cytochrome b559 in the Cyanobacterium <i>Thermosynechococcus elongatus</i> . , 2008, , 15-18.		1
44	In vivo reconstitution of a homodimeric cytochrome b559 like structure: The role of the N-terminus $\hat{\pm}$ -subunit from <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 152, 308-317.	3.8	0
45	A tribute to <sc>Jeanâ€œMarc</sc> Ducruet for his contribution to thermoluminescence and photosynthesis research. <i>Physiologia Plantarum</i> , 2021, 171, 179-182.	5.2	0
46	Flavin Laser Flash Photolysis Studies of the Electron Transfer Mechanism in Redox Proteins. , 1992, , 319-331.		0
47	Ferredoxin Oxidation in Cyclic Electron Transport in the Cyanobacterium <i>Synechocystis</i> PCC 6803. , 1995, , 1037-1040.		0
48	Changes in Cytochrome b559 During Photoinhibition. , 1998, , 2155-2158.		0
49	Adaptation of cyanobacterial photosynthesis to metal constraints. , 2022, , 109-128.		0