

Miwa Sugiura

List of Publications by Year in descending order

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58
papers

2,546
citations

185998

28
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197535

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62
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62
docs citations

62
times ranked

1344
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Ca ²⁺ /Sr ²⁺ Substitution on the Electronic Structure of the Oxygen-Evolving Complex of Photosystem II: A Combined Multifrequency EPR, ⁵⁵ Mn-ENDOR, and DFT Study of the S ₂ State. <i>Journal of the American Chemical Society</i> , 2011, 133, 3635-3648.	6.6	211
2	Highly Purified Thermo-Stable Oxygen-Evolving Photosystem II Core Complex from the Thermophilic Cyanobacterium <i>Synechococcus elongatus</i> Having His-Tagged CP43. <i>Plant and Cell Physiology</i> , 1999, 40, 1219-1231.	1.5	174
3	Biosynthetic Ca ²⁺ /Sr ²⁺ Exchange in the Photosystem II Oxygen-evolving Enzyme of <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 22809-22819.	1.6	145
4	X-ray crystallography identifies two chloride binding sites in the oxygen evolving centre of Photosystem II. <i>Energy and Environmental Science</i> , 2008, 1, 161.	15.6	118
5	Monitoring Proton Release during Photosynthetic Water Oxidation in Photosystem II by Means of Isotope-Edited Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 7849-7857.	6.6	111
6	Electron transfer pathways from the S ₂ -states to the S ₃ -states either after a Ca ²⁺ /Sr ²⁺ or a Cl ⁻ /I ⁻ exchange in Photosystem II from <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 576-586.	0.5	89
7	Distribution of the Cationic State over the Chlorophyll Pair of the Photosystem II Reaction Center. <i>Journal of the American Chemical Society</i> , 2011, 133, 14379-14388.	6.6	85
8	Complete EPR Spectrum of the S ₃ -State of the Oxygen-Evolving Photosystem II. <i>Journal of the American Chemical Society</i> , 2009, 131, 5050-5051.	6.6	83
9	The low spin - high spin equilibrium in the S ₂ -state of the water oxidizing enzyme. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 342-356.	0.5	77
10	Spectroelectrochemical determination of the redox potential of pheophytin <i>a</i> , the primary electron acceptor in photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17365-17370.	3.3	76
11	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.	1.1	74
12	Site-Directed Mutagenesis of <i>Thermosynechococcus elongatus</i> Photosystem II: The O ₂ -Evolving Enzyme Lacking the Redox-Active Tyrosine D. <i>Biochemistry</i> , 2004, 43, 13549-13563.	1.2	73
13	Influence of Histidine-198 of the D1 subunit on the properties of the primary electron donor, P680, of photosystem II in <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 331-342.	0.5	69
14	Redox Potential of the Primary Plastoquinone Electron Acceptor Q _A in Photosystem II from <i>Thermosynechococcus elongatus</i> Determined by Spectroelectrochemistry. <i>Biochemistry</i> , 2009, 48, 10682-10684.	1.2	68
15	Probing the Coupling between Proton and Electron Transfer in Photosystem II Core Complexes Containing a 3-Fluorotyrosine. <i>Journal of the American Chemical Society</i> , 2009, 131, 4425-4433.	6.6	67
16	Perturbation of the Structure of P680 and the Charge Distribution on Its Radical Cation in Isolated Reaction Center Complexes of Photosystem II as Revealed by Fourier Transform Infrared Spectroscopy. <i>Biochemistry</i> , 2007, 46, 4390-4397.	1.2	65
17	Biosynthetic Exchange of Bromide for Chloride and Strontium for Calcium in the Photosystem II Oxygen-evolving Enzymes. <i>Journal of Biological Chemistry</i> , 2008, 283, 13330-13340.	1.6	65
18	EPR Study of the Oxygen Evolving Complex in His-Tagged Photosystem II from the Cyanobacterium <i>Synechococcus elongatus</i> . <i>Biochemistry</i> , 2000, 39, 13788-13799.	1.2	64

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19	Ca ²⁺ determines the entropy changes associated with the formation of transition states during water oxidation by Photosystem II. <i>Energy and Environmental Science</i> , 2011, 4, 2520.	15.6	62
20	Energetics in Photosystem II from <i>Thermosynechococcus elongatus</i> with a D1 protein encoded by either the psbA or psbA gene. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1491-1499.	0.5	45
21	Modification of the pheophytin redox potential in <i>Thermosynechococcus elongatus</i> Photosystem II with PsbA3 as D1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 139-148.	0.5	40
22	Structural and EPR Characterization of the Soluble Form of Cytochrome c-550 and of the psbV2 Gene Product from the Cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Plant and Cell Physiology</i> , 2003, 44, 697-706.	1.5	39
23	Near-infrared-induced Transitions in the Manganese Cluster of Photosystem II: Action Spectra for the S ₂ and S ₃ Redox States. <i>Plant and Cell Physiology</i> , 2005, 46, 837-842.	1.5	37
24	Probing the quinone binding site of Photosystem II from <i>Thermosynechococcus elongatus</i> containing either PsbA1 or PsbA3 as the D1 protein through the binding characteristics of herbicides. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 119-129.	0.5	36
25	Characterization of the Tyrosine-Z Radical and Its Environment in the Spin-Coupled S ₂ TyrZâ€¢State of Photosystem II from <i>Thermosynechococcus elongatus</i> . <i>Biochemistry</i> , 2007, 46, 3138-3150.	1.2	35
26	Probing the role of chloride in Photosystem II from <i>Thermosynechococcus elongatus</i> by exchanging chloride for iodide. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 802-810.	0.5	35
27	Low-temperature photochemistry in photosystem II from <i>Thermosynechococcus elongatus</i> induced by visible and near-infrared light. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1203-1210.	1.8	34
28	Ycf12 is a core subunit in the photosystem II complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1269-1275.	0.5	31
29	Influence of the PsbA1/PsbA3, Ca ²⁺ /Sr ²⁺ and Cl ⁻ /Br ⁻ exchanges on the redox potential of the primary quinone QA in Photosystem II from <i>Thermosynechococcus elongatus</i> as revealed by spectroelectrochemistry. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1998-2004.	0.5	28
30	Semiquinoneâ€“Iron Complex of Photosystem II: EPR Signals Assigned to the Low-Field Edge of the Ground State Doublet of Q _A ^{•-} Fe ²⁺ and Q _B ^{•-} Fe ²⁺ . <i>Biochemistry</i> , 2011, 50, 6012-6021.	1.2	27
31	Hydrogen Bond Interactions of the Pheophytin Electron Acceptor and Its Radical Anion in Photosystem II As Revealed by Fourier Transform Infrared Difference Spectroscopy. <i>Biochemistry</i> , 2010, 49, 493-501.	1.2	26
32	The 1.6Å resolution structure of Fe-superoxide dismutase from the thermophilic cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 707-714.	1.1	25
33	Environment of TyrZ in Photosystem II from <i>Thermosynechococcus elongatus</i> in which PsbA2 Is the D1 Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 13336-13347.	1.6	23
34	Deactivation processes in PsbA1-Photosystem II and PsbA3-Photosystem II under photoinhibitory conditions in the cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1322-1330.	0.5	23
35	Evidence that D1-His332 in Photosystem II from <i>Thermosynechococcus elongatus</i> Interacts with the S ₃ -State and not with the S ₂ -State. <i>Biochemistry</i> , 2009, 48, 7856-7866.	1.2	22
36	Differences in the Interactions between the Subunits of Photosystem II Dependent on D1 Protein Variants in the Thermophilic Cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 30008-30018.	1.6	22

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37	D1 protein variants in Photosystem II from <i>Thermosynechococcus elongatus</i> studied by low temperature optical spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 11-19.	0.5	21
38	Charge Recombination in <i>S<sub>n</sub>Tyr<sub>Z</sub><sup>â€¢</sup>Q<sub>A</sub><sup>â€¢</sup></i> Radical Pairs in D1 Protein Variants of Photosystem II: Long Range Electron Transfer in the Marcus Inverted Region. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3308-3314.	1.2	18
39	Some Photosystem II properties depending on the D1 protein variants in <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1427-1434.	0.5	17
40	The D1-173 amino acid is a structural determinant of the critical interaction between D1-Tyr161 (TyrZ) and D1-His190 in Photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1922-1931.	0.5	16
41	Psb30 contributes to structurally stabilise the Photosystem II complex in the thermophilic cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1546-1554.	0.5	15
42	Assembly of oxygen-evolving Photosystem II efficiently occurs with the apo-Cyt b 559 but the holo-Cyt b 559 accelerates the recovery of a functional enzyme upon photoinhibition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 276-285.	0.5	15
43	Crystal structure and redox properties of a novel cyanobacterial heme protein with a His/Cys heme axial ligation and a Per-Arnt-Sim (PAS)-like domain. <i>Journal of Biological Chemistry</i> , 2017, 292, 9599-9612.	1.6	14
44	Probing the role of Valine 185 of the D1 protein in the Photosystem II oxygen evolution. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1259-1273.	0.5	14
45	An alternative plant-like cyanobacterial ferredoxin with unprecedented structural and functional properties. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 148084.	0.5	13
46	New insights on ChlD1 function in Photosystem II from site-directed mutants of D1/T179 in <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 297-309.	0.5	13
47	Crystal structure at 1.5 Å... resolution of the PsbV2 cytochrome from the cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>FEBS Letters</i> , 2013, 587, 3267-3272.	1.3	11
48	Quantum efficiency distributions of photo-induced side-pathway donor oxidation at cryogenic temperature in photosystem II. <i>Photosynthesis Research</i> , 2008, 98, 199-206.	1.6	10
49	The Tll0287 protein is a hemoprotein associated with the PsbA2-Photosystem II complex in <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 1174-1182.	0.5	10
50	Bio-inorganic hybrid photoanodes of photosystem II and ferricyanide-intercalated layered double hydroxide for visible-light-driven water oxidation. <i>Electrochimica Acta</i> , 2018, 264, 386-392.	2.6	8
51	Probing the role of arginine 323 of the D1 protein in photosystem II function. <i>Physiologia Plantarum</i> , 2021, 171, 183-199.	2.6	8
52	Properties of Photosystem II lacking the Psbj subunit. <i>Photosynthesis Research</i> , 2022, 152, 347-361.	1.6	8
53	What can we still learn from the electrochromic band-shifts in Photosystem II?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148176.	0.5	7
54	Evidence for an Unprecedented Histidine Hydroxyl Modification on D2-His336 in Photosystem II of <i>Thermosynechococcus vulcanus</i> and <i>Thermosynechococcus elongatus</i> . <i>Biochemistry</i> , 2013, 52, 9426-9431.	1.2	4

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55	Photosynthesis and artificial photosynthesis research. <i>Research on Chemical Intermediates</i> , 2014, 40, 3163-3168.	1.3	2
56	Variants of photosystem II D1 protein in <i>Thermosynechococcus elongatus</i> . <i>Research on Chemical Intermediates</i> , 2014, 40, 3219-3229.	1.3	2
57	Probing the proton release by Photosystem II in the S1 to S2 high-spin transition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148546.	0.5	2
58	Consequences of structural modifications in cytochrome b559 on the electron acceptor side of Photosystem II. <i>Photosynthesis Research</i> , 2019, 139, 475-486.	1.6	1