

Ryo Nagao

List of Publications by Year in descending order

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77
papers

1,978
citations

236925

25
h-index

289244

40
g-index

81
all docs

81
docs citations

81
times ranked

1284
citing authors

#	ARTICLE	IF	CITATIONS
1	Structures and functions of the extrinsic proteins of photosystem II from different species. <i>Photosynthesis Research</i> , 2008, 98, 349-363.	2.9	127
2	Isolation and characterization of oxygen-evolving thylakoid membranes and Photosystem II particles from a marine diatom <i>Chaetoceros gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1353-1362.	1.0	94
3	Structural basis for energy harvesting and dissipation in a diatom PSII-FCPII supercomplex. <i>Nature Plants</i> , 2019, 5, 890-901.	9.3	92
4	Redox potential of pheophytin <i>a</i> in photosystem II of two cyanobacteria having the different special pair chlorophylls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3924-3929.	7.1	88
5	Structural basis for the adaptation and function of chlorophyll f in photosystem I. <i>Nature Communications</i> , 2020, 11, 238.	12.8	75
6	Fourier Transform Infrared Detection of a Polarizable Proton Trapped between Photooxidized Tyrosine Y _Z and a Coupled Histidine in Photosystem II: Relevance to the Proton Transfer Mechanism of Water Oxidation. <i>Biochemistry</i> , 2014, 53, 3131-3144.	2.5	71
7	Redox potential of the terminal quinone electron acceptor Q _B in photosystem II reveals the mechanism of electron transfer regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 620-625.	7.1	66
8	Comparison of oligomeric states and polypeptide compositions of fucoxanthin chlorophyll a/c-binding protein complexes among various diatom species. <i>Photosynthesis Research</i> , 2013, 117, 281-288.	2.9	65
9	Purification and characterization of a stable oxygen-evolving Photosystem II complex from a marine centric diatom, <i>Chaetoceros gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 160-166.	1.0	63
10	Monitoring the Reaction Process During the S ₂ → S ₃ Transition in Photosynthetic Water Oxidation Using Time-Resolved Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 2022-2029.	13.7	57
11	High Excitation Energy Quenching in Fucoxanthin Chlorophyll <i>a</i> /c-Binding Protein Complexes from the Diatom <i>Chaetoceros gracilis</i> . <i>Journal of Physical Chemistry B</i> , 2013, 117, 6888-6895.	2.6	56
12	Structural basis for assembly and function of a diatom photosystem II-light-harvesting supercomplex. <i>Nature Communications</i> , 2020, 11, 2481.	12.8	56
13	Structure of a cyanobacterial photosystem I tetramer revealed by cryo-electron microscopy. <i>Nature Communications</i> , 2019, 10, 4929.	12.8	50
14	D1-Asn-298 in photosystem II is involved in a hydrogen-bond network near the redox-active tyrosine YZ for proton exit during water oxidation. <i>Journal of Biological Chemistry</i> , 2017, 292, 20046-20057.	3.4	42
15	Binding and Functional Properties of Five Extrinsic Proteins in Oxygen-evolving Photosystem II from a Marine Centric Diatom, <i>Chaetoceros gracilis</i> *. <i>Journal of Biological Chemistry</i> , 2010, 285, 29191-29199.	3.4	41
16	Excitation relaxation dynamics and energy transfer in fucoxanthin-chlorophyll a/c-protein complexes, probed by time-resolved fluorescence. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1514-1521.	1.0	41
17	Light-Harvesting Ability of the Fucoxanthin Chlorophyll <i>a</i> /c-Binding Protein Associated with Photosystem II from the Diatom <i>Chaetoceros gracilis</i> As Revealed by Picosecond Time-Resolved Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5093-5100.	2.6	38
18	Topological Analysis of the Extrinsic PsbO, PsbP and PsbQ Proteins in a Green Algal PSII Complex by Cross-Linking with a Water-Soluble Carbodiimide. <i>Plant and Cell Physiology</i> , 2010, 51, 718-727.	3.1	35

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19	Proteases are associated with a minor fucoxanthin chlorophyll a/c-binding protein from the diatom, <i>Chaetoceros gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 2110-2117.	1.0	33
20	Thylakoid membrane lipid sulfoquinovosyl-diacylglycerol (SQDG) is required for full functioning of photosystem II in <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 14786-14797.	3.4	31
21	Control Mechanism of Excitation Energy Transfer in a Complex Consisting of Photosystem II and Fucoxanthin Chlorophyll a/c-Binding Protein. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2983-2987.	4.6	30
22	Structure of a cyanobacterial photosystem I surrounded by octadecameric IsiA antenna proteins. <i>Communications Biology</i> , 2020, 3, 232.	4.4	30
23	A novel protein in Photosystem II of a diatom <i>Chaetoceros gracilis</i> is one of the extrinsic proteins located on lumenal side and directly associates with PSII core components. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 1545-1551.	1.0	29
24	Regulation of excitation energy transfer in diatom PSII dimer: How does it change the destination of excitation energy?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1274-1282.	1.0	29
25	Species-dependence of the redox potential of the primary quinone electron acceptor Q _A in photosystem II verified by spectroelectrochemistry. <i>FEBS Letters</i> , 2010, 584, 1526-1530.	2.8	28
26	Genetically introduced hydrogen bond interactions reveal an asymmetric charge distribution on the radical cation of the special-pair chlorophyll P680. <i>Journal of Biological Chemistry</i> , 2017, 292, 7474-7486.	3.4	28
27	Crystal Structure of Psb31, a Novel Extrinsic Protein of Photosystem II from a Marine Centric Diatom and Implications for Its Binding and Function. <i>Biochemistry</i> , 2013, 52, 6646-6652.	2.5	27
28	The N-terminal sequence of the extrinsic PsbP protein modulates the redox potential of Cyt b559 in photosystem II. <i>Scientific Reports</i> , 2016, 6, 21490.	3.3	24
29	Identification of the basic amino acid residues on the PsbP protein involved in the electrostatic interaction with photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1447-1453.	1.0	21
30	Low-Energy Chlorophylls in Fucoxanthin Chlorophyll a/c-Binding Protein Conduct Excitation Energy Transfer to Photosystem I in Diatoms. <i>Journal of Physical Chemistry B</i> , 2019, 123, 66-70.	2.6	20
31	Proton and Water Transfer Pathways in the S ₂ → S ₃ Transition of the Water-Oxidizing Complex in Photosystem II: Time-Resolved Infrared Analysis of the Effects of D1-N298A Mutation and NO ₃ ⁻ Substitution. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6864-6873.	2.6	20
32	Effects of Extrinsic Proteins on the Protein Conformation of the Oxygen-Evolving Center in Cyanobacterial Photosystem II As Revealed by Fourier Transform Infrared Spectroscopy. <i>Biochemistry</i> , 2015, 54, 2022-2031.	2.5	19
33	Biochemical characterization of photosystem I complexes having different subunit compositions of fucoxanthin chlorophyll a/c-binding proteins in the diatom <i>Chaetoceros gracilis</i> . <i>Photosynthesis Research</i> , 2019, 140, 141-149.	2.9	19
34	Adaptation of light-harvesting and energy-transfer processes of a diatom <i>Phaeodactylum tricornutum</i> to different light qualities. <i>Photosynthesis Research</i> , 2020, 146, 227-234.	2.9	19
35	Alterations of pigment composition and their interactions in response to different light conditions in the diatom <i>Chaetoceros gracilis</i> probed by time-resolved fluorescence spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 524-530.	1.0	18
36	Role of the O4 Channel in Photosynthetic Water Oxidation as Revealed by Fourier Transform Infrared Difference and Time-Resolved Infrared Analysis of the D1-S169A Mutant. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1470-1480.	2.6	18

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37	Alterations in photosynthetic pigments and amino acid composition of D1 protein change energy distribution in photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 754-759.	1.0	17
38	Effects of excess light energy on excitation-energy dynamics in a pennate diatom <i>Phaeodactylum tricornutum</i> . <i>Photosynthesis Research</i> , 2019, 141, 355-365.	2.9	17
39	Excitation-Energy Transfer and Quenching in Diatom PSI-FCPI upon P700 Cation Formation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1481-1486.	2.6	17
40	Structural basis for different types of hetero-tetrameric light-harvesting complexes in a diatom PSII-FCPII supercomplex. <i>Nature Communications</i> , 2022, 13, 1764.	12.8	17
41	Structural Coupling of Extrinsic Proteins with the Oxygen-Evolving Center in Red Algal Photosystem II As Revealed by Light-Induced FTIR Difference Spectroscopy. <i>Biochemistry</i> , 2013, 52, 5705-5707.	2.5	16
42	Structure-Based Modeling of Fluorescence Kinetics of Photosystem II: Relation between Its Dimeric Form and Photoregulation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 365-376.	2.6	16
43	Effects of CO ₂ and temperature on photosynthetic performance in the diatom <i>Chaetoceros gracilis</i> . <i>Photosynthesis Research</i> , 2020, 146, 189-195.	2.9	15
44	Ultrafast Excitation Energy Dynamics in a Diatom Photosystem I-Antenna Complex: A Femtosecond Fluorescence Upconversion Study. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2673-2678.	2.6	14
45	Structural basis for the absence of low-energy chlorophylls in a photosystem I trimer from <i>Gloeobacter violaceus</i> . <i>ELife</i> , 2022, 11, .	6.0	14
46	Light-independent biosynthesis and assembly of the photosystem II complex in the diatom <i>Chaetoceros gracilis</i> . <i>FEBS Letters</i> , 2013, 587, 1340-1345.	2.8	13
47	Spectral Properties and Excitation Relaxation of Novel Fucoxanthin Chlorophyll <i>a</i> -Binding Protein Complexes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5148-5152.	4.6	13
48	pH-Sensing Machinery of Excitation Energy Transfer in Diatom PSII-FCPI Complexes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3531-3535.	4.6	12
49	pH-Induced Regulation of Excitation Energy Transfer in the Cyanobacterial Photosystem I Tetramer. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1949-1954.	2.6	12
50	Molecular phylogeny of fucoxanthin-chlorophyll <i>a</i> / <i>c</i> proteins from <i>Chaetoceros gracilis</i> and Lhcq/Lhcf diversity. <i>Physiologia Plantarum</i> , 2022, 174, e13598.	5.2	12
51	Luminescence of singlet oxygen in photosystem II complexes isolated from cyanobacterium <i>Synechocystis</i> sp. PCC6803 containing monovinyl or divinyl chlorophyll <i>a</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1299-1305.	1.0	11
52	Does the water-oxidizing Mn ₄ CaO ₅ cluster regulate the redox potential of the primary quinone electron acceptor QA in photosystem II? A study by Fourier transform infrared spectroelectrochemistry. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 148082.	1.0	11
53	Acidic pH-Induced Modification of Energy Transfer in Diatom Fucoxanthin Chlorophyll <i>a</i> -Binding Proteins. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4919-4923.	2.6	11
54	Structure of a tetrameric photosystem I from a glaucophyte alga <i>Cyanophora paradoxa</i> . <i>Nature Communications</i> , 2022, 13, 1679.	12.8	11

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55	Aromatic structure of Tyrosine ϵ 92 in the extrinsic PsbU protein of red algal Photosystem II is important for its functioning. <i>FEBS Letters</i> , 2007, 581, 5255-5258.	2.8	10
56	Conversion of photosystem II dimer to monomers during photoinhibition is tightly coupled with decrease in oxygen-evolving activity in the diatom <i>Chaetoceros gracilis</i> . <i>Photosynthesis Research</i> , 2016, 130, 83-91.	2.9	10
57	Fourier transform infrared and mass spectrometry analyses of a site-directed mutant of D1-Asp170 as a ligand to the water-oxidizing Mn ₄ CaO ₅ cluster in photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148086.	1.0	10
58	Enhancement of excitation-energy quenching in fucoxanthin chlorophyll a/c-binding proteins isolated from a diatom <i>Phaeodactylum tricornutum</i> upon excess-light illumination. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148350.	1.0	10
59	Structural implications for a phycobilisome complex from the thermophilic cyanobacterium <i>Thermosynechococcus vulcanus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148458.	1.0	10
60	The PsbQ' protein affects the redox potential of the Q_A in photosystem II. <i>Photosynthetica</i> , 2018, 56, 185-191.	1.7	9
61	Fluorescence property of photosystem II protein complexes bound to a gold nanoparticle. <i>Faraday Discussions</i> , 2017, 198, 121-134.	3.2	8
62	Redox-state dependent blinking of single photosystem I trimers at around liquid-nitrogen temperature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 30-40.	1.0	8
63	Adaptation of light-harvesting and energy-transfer processes of a diatom <i>Chaetoceros gracilis</i> to different light qualities. <i>Photosynthesis Research</i> , 2020, 146, 87-93.	2.9	8
64	Molecular organizations and function of iron-stress-induced-A protein family in <i>Anabaena</i> sp. PCC 7120. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148327.	1.0	8
65	Electrostatic interaction of positive charges on the surface of Psb31 with photosystem II in the diatom <i>Chaetoceros gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 779-785.	1.0	7
66	Changes in excitation relaxation of diatoms in response to fluctuating light, probed by fluorescence spectroscopies. <i>Photosynthesis Research</i> , 2020, 146, 143-150.	2.9	7
67	Functional role of Lys residues of Psb31 in electrostatic interactions with diatom photosystem II. <i>FEBS Letters</i> , 2017, 591, 3259-3264.	2.8	4
68	Evolution and Function of the Extrinsic Subunits of Photosystem II. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 429-446.	1.0	4
69	High-light modification of excitation-energy-relaxation processes in the green flagellate <i>Euglena gracilis</i> . <i>Photosynthesis Research</i> , 2021, 149, 303-311.	2.9	4
70	Evaluation of photosynthetic activities in thylakoid membranes by means of Fourier transform infrared spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 129-136.	1.0	3
71	pH-Dependent Regulation of Electron Flow in Photosystem II by a Histidine Residue at the Stromal Surface. <i>Biochemistry</i> , 2022, 61, 1351-1362.	2.5	3
72	Lysyl oxidase-like protein secreted from an acidophilic red alga, <i>Cyanidium caldarium</i> . <i>Plant Direct</i> , 2018, 2, e00084.	1.9	1

