

Yasufumi Umena

List of Publications by Year in descending order

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36
papers

5,810
citations

394421

19
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

5390
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure of oxygen-evolving photosystem II at a resolution of 1.9 Å... Nature, 2011, 473, 55-60.	27.8	3,440
2	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. Nature, 2017, 543, 131-135.	27.8	515
3	An oxyl/oxo mechanism for oxygen-oxygen coupling in PSII revealed by an x-ray free-electron laser. Science, 2019, 366, 334-338.	12.6	248
4	Location of chloride and its possible functions in oxygen-evolving photosystem II revealed by X-ray crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8567-8572.	7.1	210
5	S ₁ -State Model of the O ₂ -Evolving Complex of Photosystem II. Biochemistry, 2011, 50, 6308-6311.	2.5	210
6	Structural basis for blue-green light harvesting and energy dissipation in diatoms. Science, 2019, 363, .	12.6	166
7	Structure of the catalytic, inorganic core of oxygen-evolving photosystem II at 1.9 Å... resolution. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 9-18.	3.8	165
8	Structure of Sr-substituted photosystem II at 2.1 Å... resolution and its implications in the mechanism of water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3889-3894.	7.1	139
9	Structural Functional Role of Chloride in Photosystem II. Biochemistry, 2011, 50, 6312-6315.	2.5	132
10	Novel Features of Eukaryotic Photosystem II Revealed by Its Crystal Structure Analysis from a Red Alga. Journal of Biological Chemistry, 2016, 291, 5676-5687.	3.4	100
11	Distribution of the Cationic State over the Chlorophyll Pair of the Photosystem II Reaction Center. Journal of the American Chemical Society, 2011, 133, 14379-14388.	13.7	85
12	Labile electronic and spin states of the CaMn ₄ O ₅ cluster in the PSII system refined to the 1.9 Å... X-ray resolution. UB3LYP computational results. Chemical Physics Letters, 2011, 506, 98-103.	2.6	66
13	The crystal structure of l-lactate oxidase from Aerococcus viridans at 2.1 Å... resolution reveals the mechanism of strict substrate recognition. Biochemical and Biophysical Research Communications, 2006, 350, 249-256.	2.1	48
14	Towards structural elucidation of eukaryotic photosystem II: Purification, crystallization and preliminary X-ray diffraction analysis of photosystem II from a red alga. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 121-128.	1.0	37
15	Crystallographic study on the interaction of l-lactate oxidase with pyruvate at 1.9 Å... resolution. Biochemical and Biophysical Research Communications, 2007, 358, 1002-1007.	2.1	33
16	Thylakoid membrane lipid sulfoquinovosyl-diacylglycerol (SQDG) is required for full functioning of photosystem II in Thermosynechococcus elongatus. Journal of Biological Chemistry, 2018, 293, 14786-14797.	3.4	31
17	Theoretical modelling of biomolecular systems I. Large-scale QM/MM calculations of hydrogen-bonding networks of the oxygen evolving complex of photosystem II. Molecular Physics, 2015, 113, 359-384.	1.7	28
18	Capturing structural changes of the S ₁ to S ₂ transition of photosystem II using time-resolved serial femtosecond crystallography. IUCr, 2021, 8, 431-443.	2.2	24

#	ARTICLE	IF	CITATIONS
19	Deformation of Chlorin Rings in the Photosystem II Crystal Structure. <i>Biochemistry</i> , 2012, 51, 4290-4299.	2.5	23
20	Fourier Transform Infrared Analysis of the S-State Cycle of Water Oxidation in the Microcrystals of Photosystem II. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2121-2126.	4.6	19
21	Dynamics of Excitation Energy Transfer Between the Subunits of Photosystem II Dimer. <i>Journal of the American Chemical Society</i> , 2016, 138, 11599-11605.	13.7	15
22	Theoretical Elucidation of Geometrical Structures of the CaMn ₄ O ₅ Cluster in Oxygen Evolving Complex of Photosystem II Scope and Applicability of Estimation Formulae of Structural Deformations via the Mixed-Valence and Jahn-Teller Effects. <i>Advances in Quantum Chemistry</i> , 2019, , 307-451.	0.8	13
23	A versatile experimental system for tracking ultrafast chemical reactions with X-ray free-electron lasers. <i>Structural Dynamics</i> , 2019, 6, 054302.	2.3	10
24	Formation of the High-Spin S ₂ State Related to the Extrinsic Proteins in the Oxygen Evolving Complex of Photosystem II. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8908-8913.	4.6	10
25	Understanding Two Different Structures in the Dark Stable State of the Oxygen-Evolving Complex of Photosystem II: Applicability of the Jahn-Teller Deformation Formula. <i>ChemPhotoChem</i> , 2018, 2, 257-270.	3.0	9
26	Role of the Propionic Acid Side-Chain of C-Phycocyanin Chromophores in the Excited States for the Photosynthesis Process. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 1509-1519.	3.2	8
27	β-Carotene Probes the Energy Transfer Pathway in the Photosystem II Core Complex. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3710-3714.	4.6	5
28	Dynamic interactions in the l-lactate oxidase active site facilitate substrate binding at pH4.5. <i>Biochemical and Biophysical Research Communications</i> , 2021, 568, 131-135.	2.1	5
29	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.	2.5	4
30	Novel Mechanism of Cl-Dependent Proton Dislocation in Photosystem II (PSII): Hybrid Ab initio Quantum Mechanics/Molecular Mechanics Molecular Dynamics Simulation. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 084802.	1.6	4
31	Crystallization and preliminary X-ray diffraction study of l-lactate oxidase (LOX), R181M mutant, from <i>Aerococcus viridans</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 439-441.	0.7	3
32	Estimation of the relative contributions to the electronic energy transfer rates based on Förster theory: The case of C-phycocyanin chromophores. <i>Biophysics and Physicobiology</i> , 2021, 18, 196-214.	1.0	3
33	Mechanism of Photosynthetic Water-splitting Based on the High Resolution Structure of Photosystem II. <i>Seibutsu Butsuri</i> , 2012, 52, 140-143.	0.1	1
34	Structural basis of photosynthetic water-splitting. , 2013, , .		0
35	Time-Resolved X-ray Crystallography Using Synchrotron Radiation. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 24-30.	0.0	0
36	Crystal Structural and Functional Analysis of Oxygen-Evolving Photosystem II Complex. <i>Nihon Kessho Gakkaishi</i> , 2012, 54, 247-254.	0.0	0