

# Yasufumi Umena

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11738569/publications.pdf>

Version: 2024-02-01

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	Estimation of the relative contributions to the electronic energy transfer rates based on Förster theory: The case of C-phycoerythrin chromophores. <i>Biophysics and Physicobiology</i> , 2021, 18, 196-214.	1.0	3
2	Time-Resolved X-ray Crystallography Using Synchrotron Radiation. <i>Nihon Kessho Gakkaishi</i> , 2021, 63, 24-30.	0.0	0
3	Capturing structural changes of the S <sub>1</sub> to S <sub>2</sub> transition of photosystem II using time-resolved serial femtosecond crystallography. <i>IUCr</i> , 2021, 8, 431-443.	2.2	24
4	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
5	Formation of the High-Spin S <sub>2</sub> 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
6	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
7	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
8	An oxyl/oxo mechanism for oxygen-oxygen coupling in PSII revealed by an x-ray free-electron laser. <i>Science</i> , 2019, 366, 334-338.	12.6	248
9	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
10	Î²-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
11	Structural basis for blue-green light harvesting and energy dissipation in diatoms. <i>Science</i> , 2019, 363, .	12.6	166
12	Theoretical Elucidation of Geometrical Structures of the CaMn <sub>4</sub> O <sub>5</sub> 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
13	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
14	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
15	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
16	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. <i>Nature</i> , 2017, 543, 131-135.	27.8	515
17	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
18	Novel Features of Eukaryotic Photosystem II Revealed by Its Crystal Structure Analysis from a Red Alga. <i>Journal of Biological Chemistry</i> , 2016, 291, 5676-5687.	3.4	100

#	ARTICLE	IF	CITATIONS
19	Theoretical modelling of biomolecular systems I. Large-scale QM/MM calculations of hydrogen-bonding networks of the oxygen evolving complex of photosystem II. <i>Molecular Physics</i> , 2015, 113, 359-384.	1.7	28
20	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
21	Structure of Sr-substituted photosystem II at 2.1 Å... resolution and its implications in the mechanism of water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3889-3894.	7.1	139
22	Structural basis of photosynthetic water-splitting. , 2013, , .		0
23	Deformation of Chlorin Rings in the Photosystem II Crystal Structure. <i>Biochemistry</i> , 2012, 51, 4290-4299.	2.5	23
24	Crystal Structural and Functional Analysis of Oxygen-Evolving Photosystem II Complex. <i>Nihon Kessho Gakkaishi</i> , 2012, 54, 247-254.	0.0	0
25	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
26	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.	13.7	85
27	S <sub>1</sub> -State Model of the O <sub>2</sub> -Evolving Complex of Photosystem II. <i>Biochemistry</i> , 2011, 50, 6308-6311.	2.5	210
28	Structural Functional Role of Chloride in Photosystem II. <i>Biochemistry</i> , 2011, 50, 6312-6315.	2.5	132
29	Crystal structure of oxygen-evolving photosystem II at a resolution of 1.9 Å... <i>Nature</i> , 2011, 473, 55-60.	27.8	3,440
30	Labile electronic and spin states of the CaMn <sub>4</sub> O <sub>5</sub> cluster in the PSII system refined to the 1.9 Å... X-ray resolution. UB3LYP computational results. <i>Chemical Physics Letters</i> , 2011, 506, 98-103.	2.6	66
31	Structure of the catalytic, inorganic core of oxygen-evolving photosystem II at 1.9 Å... resolution. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 9-18.	3.8	165
32	Location of chloride and its possible functions in oxygen-evolving photosystem II revealed by X-ray crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8567-8572.	7.1	210
33	Towards structural elucidation of eukaryotic photosystem II: Purification, crystallization and preliminary X-ray diffraction analysis of photosystem II from a red alga. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 121-128.	1.0	37
34	Crystallographic study on the interaction of l-lactate oxidase with pyruvate at 1.9 Å... resolution. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 1002-1007.	2.1	33
35	The crystal structure of l-lactate oxidase from <i>Aerococcus viridans</i> at 2.1 Å... resolution reveals the mechanism of strict substrate recognition. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 249-256.	2.1	48
36	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