

# Eiichi Mizohata

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5041617/publications.pdf>

Version: 2024-02-01

49  
papers

1,778  
citations

331670

21  
h-index

276875

41  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2532  
citing authors

#	ARTICLE	IF	CITATIONS
1	A three-dimensional movie of structural changes in bacteriorhodopsin. <i>Science</i> , 2016, 354, 1552-1557.	12.6	350
2	Grease matrix as a versatile carrier of proteins for serial crystallography. <i>Nature Methods</i> , 2015, 12, 61-63.	19.0	193
3	Redox-coupled proton transfer mechanism in nitrite reductase revealed by femtosecond crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2928-2933.	7.1	88
4	A RuBisCO-mediated carbon metabolic pathway in methanogenic archaea. <i>Nature Communications</i> , 2017, 8, 14007.	12.8	88
5	Diverse application platform for hard X-ray diffraction in SACLA (DAPHNIS): application to serial protein crystallography using an X-ray free-electron laser. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 532-537.	2.4	80
6	Hydroxyethyl cellulose matrix applied to serial crystallography. <i>Scientific Reports</i> , 2017, 7, 703.	3.3	74
7	Capturing an initial intermediate during the P450 <sub>nor</sub> enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. <i>Nature Communications</i> , 2017, 8, 1585.	12.8	74
8	Crystal structure of activated ribulose-1,5-bisphosphate carboxylase/oxygenase from green alga <i>Chlamydomonas reinhardtii</i> complexed with 2-carboxyarabinitol-1,5-bisphosphate. <i>Journal of Molecular Biology</i> , 2002, 316, 679-691.	4.2	68
9	An isomorphous replacement method for efficient de novo phasing for serial femtosecond crystallography. <i>Scientific Reports</i> , 2015, 5, 14017.	3.3	54
10	Native sulfur/chlorine SAD phasing for serial femtosecond crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 2519-2525.	2.5	51
11	Structural Flexibility of an Inhibitor Overcomes Drug Resistance Mutations in <i>Staphylococcus aureus</i> FtsZ. <i>ACS Chemical Biology</i> , 2017, 12, 1947-1955.	3.4	49
12	Membrane protein structure determination by SAD, SIR, or SIRAS phasing in serial femtosecond crystallography using an iododetergent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13039-13044.	7.1	43
13	Serial Femtosecond Crystallography and Ultrafast Absorption Spectroscopy of the Photoswitchable Fluorescent Protein IrisFP. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 882-887.	4.6	43
14	Identification of the key interactions in structural transition pathway of FtsZ from <i>Staphylococcus aureus</i> . <i>Journal of Structural Biology</i> , 2017, 198, 65-73.	2.8	41
15	<i>In vivo</i> crystallography at X-ray free-electron lasers: the next generation of structural biology?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130497.	4.0	39
16	Structural basis for light control of cell development revealed by crystal structures of a myxobacterial phytochrome. <i>IUCr</i> , 2018, 5, 619-634.	2.2	33
17	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. <i>ChemCatChem</i> , 2014, 6, 1229-1235.	3.7	32
18	Crystal structure of FtsA from <i>Staphylococcus aureus</i> . <i>FEBS Letters</i> , 2014, 588, 1879-1885.	2.8	32

#	ARTICLE	IF	CITATIONS
19	Affinity Improvement of a Cancer-Targeted Antibody through Alanine-Induced Adjustment of Antigen-Antibody Interface. <i>Structure</i> , 2019, 27, 519-527.e5.	3.3	31
20	Redox-coupled structural changes in nitrite reductase revealed by serial femtosecond and microfocus crystallography. <i>Journal of Biochemistry</i> , 2016, 159, 527-538.	1.7	26
21	Experimental phase determination with selenomethionine or mercury-derivatization in serial femtosecond crystallography. <i>IUCr</i> , 2017, 4, 639-647.	2.2	24
22	Structural insights into a secretory abundant heat-soluble protein from an anhydrobiotic tardigrade, <i>Ramazzottius varieornatus</i> . <i>FEBS Letters</i> , 2017, 591, 2458-2469.	2.8	23
23	Serial femtosecond crystallography at the SACLA: breakthrough to dynamic structural biology. <i>Biophysical Reviews</i> , 2018, 10, 209-218.	3.2	22
24	Ubiquitination of Lysine 867 of the Human SETDB1 Protein Upregulates Its Histone H3 Lysine 9 (H3K9) Methyltransferase Activity. <i>PLoS ONE</i> , 2016, 11, e0165766.	2.5	22
25	Structural insights into the function of a thermostable copper-containing nitrite reductase. <i>Journal of Biochemistry</i> , 2014, 155, 123-135.	1.7	21
26	Loop of <i>Streptomyces</i> Feruloyl Esterase Plays an Important Role in the Enzyme's Catalyzing the Release of Ferulic Acid from Biomass. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	20
27	Structural features of interfacial tyrosine residue in ROBO1 fibronectin domain-antibody complex: Crystallographic, thermodynamic, and molecular dynamic analyses. <i>Protein Science</i> , 2015, 24, 328-340.	7.6	19
28	Crystal structure of streptavidin mutant with low immunogenicity. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 642-647.	2.2	15
29	Epiregulin Recognition Mechanisms by Anti-epiregulin Antibody 9E5. <i>Journal of Biological Chemistry</i> , 2016, 291, 2319-2330.	3.4	11
30	The N-terminal acidic residue of the cytosolic helix 8 of an odorant receptor is responsible for different response dynamics via G-protein. <i>FEBS Letters</i> , 2015, 589, 1136-1142.	2.8	10
31	Active site geometry of a novel aminopropyltransferase for biosynthesis of hyperthermophile-specific branched-chain polyamine. <i>FEBS Journal</i> , 2017, 284, 3684-3701.	4.7	10
32	Structure-based design of a streptavidin mutant specific for an artificial biotin analogue. <i>Journal of Biochemistry</i> , 2015, 157, 467-475.	1.7	9
33	Structural Basis for the <i>Serratia marcescens</i> Lipase Secretion System: Crystal Structures of the Membrane Fusion Protein and Nucleotide-Binding Domain. <i>Biochemistry</i> , 2017, 56, 6281-6291.	2.5	9
34	Isolation and characterization of 4-hydroxy-3-methylbut-2-enyl diphosphate reductase gene from <i>Botryococcus braunii</i> , race B. <i>Journal of Plant Research</i> , 2018, 131, 839-848.	2.4	9
35	Insights into unknown foreign ligand in copper nitrite reductase. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 622-628.	2.1	8
36	Structural basis for intramolecular interaction of post-translationally modified Ras-GTP prepared by protein ligation. <i>FEBS Letters</i> , 2017, 591, 2470-2481.	2.8	8

#	ARTICLE	IF	CITATIONS
37	Cupid and Psyche system for the diagnosis and treatment of advanced cancer. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2019, 95, 602-611.	3.8	8
38	Learning RuBisCO's birth and subsequent environmental adaptation. Biochemical Society Transactions, 2019, 47, 179-185.	3.4	7
39	Improvement of Production and Isolation of Human Neuraminidase-1 in Cellulose Crystals. ACS Applied Bio Materials, 2019, 2, 4941-4952.	4.6	5
40	Heavy Atom Detergent/Lipid Combined X-ray Crystallography for Elucidating the Structure-Function Relationships of Membrane Proteins. Membranes, 2021, 11, 823.	3.0	5
41	Chemical modification of arginine alleviates the decline in activity during catalysis of spinach Rubisco. Biochemical and Biophysical Research Communications, 2003, 301, 591-597.	2.1	4
42	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. ChemCatChem, 2014, 6, 1123-1123.	3.7	4
43	Crystallization and preliminary X-ray crystallographic analysis of UDP-glucuronic acid:flavonol-3-O-glucuronosyltransferase (VvGT5) from the grapevine <i>Vitis vinifera</i> . Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 65-68.	0.7	3
44	Docking analysis of models for 4-hydroxy-3-methylbut-2-enyl diphosphate reductase and a ferredoxin from <i>Botryococcus braunii</i> , race B. Plant Biotechnology, 2018, 35, 297-301.	1.0	3
45	The C-terminal flexible region of branched-chain polyamine synthase facilitates substrate specificity and catalysis. FEBS Journal, 2019, 286, 3926-3940.	4.7	3
46	Crystallographic study of dioxygen chemistry in a copper-containing nitrite reductase from <i>Geobacillus thermodenitrificans</i> . Acta Crystallographica Section D: Structural Biology, 2018, 74, 769-777.	2.3	2
47	New molecular packing in a crystal of pseudoazurin from <i>Alcaligenes faecalis</i> : a double-helical arrangement of blue copper. Acta Crystallographica Section F, Structural Biology Communications, 2017, 73, 159-166.	0.8	1
48	Trends in Methods for Accelerating Structure Determination of Membrane Proteins. Nihon Kessho Gakkaishi, 2017, 59, 147-148.	0.0	0
49	Substrate Specificity of an Aminopropyltransferase and the Biosynthesis Pathway of Polyamines in the Hyperthermophilic Crenarchaeon <i>Pyrobaculum calidifontis</i> . Catalysts, 2022, 12, 567.	3.5	0