# Eiichi Mizohata

## List of Publications by Citations



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|---|---|---|---|
| 49 papers | 1,327 citations | 20 h-index | 36 g-index |
| 51 ext. papers | 1,582 ext. citations | 5.9 avg, IF | 3.58 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 49 | A three-dimensional movie of structural changes in bacteriorhodopsin. *Science*, **2016**, 354, 1552-1557 | 33.3 | 262 |
| 48 | Grease matrix as a versatile carrier of proteins for serial crystallography. *Nature Methods*, **2015**, 12, 61-3 | 21.6 | 154 |
| 47 | Redox-coupled proton transfer mechanism in nitrite reductase revealed by femtosecond crystallography. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 2928-33 | 11.5 | 71 |
| 46 | Diverse application platform for hard X-ray diffraction in SACLA (DAPHNIS): application to serial protein crystallography using an X-ray free-electron laser. *Journal of Synchrotron Radiation*, **2015**, 22, 532-7 | 2.4 | 62 |
| 45 | A RuBisCO-mediated carbon metabolic pathway in methanogenic archaea. *Nature Communications*, **2017**, 8, 14007 | 17.4 | 60 |
| 44 | Hydroxyethyl cellulose matrix applied to serial crystallography. *Scientific Reports*, **2017**, 7, 703 | 4.9 | 55 |
| 43 | Crystal structure of activated ribulose-1,5-bisphosphate carboxylase/oxygenase from green alga Chlamydomonas reinhardtii complexed with 2-carboxyarabinitol-1,5-bisphosphate. *Journal of Molecular Biology*, **2002**, 316, 679-91 | 6.5 | 55 |
| 42 | Capturing an initial intermediate during the P450nor enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. *Nature Communications*, **2017**, 8, 1585 | 17.4 | 52 |
| 41 | An isomorphous replacement method for efficient de novo phasing for serial femtosecond crystallography. *Scientific Reports*, **2015**, 5, 14017 | 4.9 | 49 |
| 40 | Native sulfur/chlorine SAD phasing for serial femtosecond crystallography. *Acta Crystallographica Section D: Biological Crystallography*, **2015**, 71, 2519-25 | | 46 |
| 39 | Membrane protein structure determination by SAD, SIR, or SIRAS phasing in serial femtosecond crystallography using an iododetergent. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13039-13044 | 11.5 | 38 |
| 38 | Structural Flexibility of an Inhibitor Overcomes Drug Resistance Mutations in Staphylococcus aureus FtsZ. *ACS Chemical Biology*, **2017**, 12, 1947-1955 | 4.9 | 32 |
| 37 | Serial Femtosecond Crystallography and Ultrafast Absorption Spectroscopy of the Photoswitchable Fluorescent Protein IrisFP. *Journal of Physical Chemistry Letters*, **2016**, 7, 882-7 | 6.4 | 31 |
| 36 | In vivo crystallography at X-ray free-electron lasers: the next generation of structural biology?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130497 | 5.8 | 31 |
| 35 | Redox-coupled structural changes in nitrite reductase revealed by serial femtosecond and microfocus crystallography. *Journal of Biochemistry*, **2016**, 159, 527-38 | 3.1 | 25 |
| 34 | Identification of the key interactions in structural transition pathway of FtsZ from Staphylococcus aureus. *Journal of Structural Biology*, **2017**, 198, 65-73 | 3.4 | 24 |
| 33 | Crystal structure of FtsA from Staphylococcus aureus. *FEBS Letters*, **2014**, 588, 1879-85 | 3.8 | 24 |

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|---|---|---|---|
| 32 | Experimental phase determination with selenomethionine or mercury-derivatization in serial femtosecond crystallography. *IUCrJ*, **2017**, 4, 639-647 | 4.7 | 22 |
| 31 | Structural insights into the function of a thermostable copper-containing nitrite reductase. *Journal of Biochemistry*, **2014**, 155, 123-35 | 3.1 | 20 |
| 30 | Structural basis for light control of cell development revealed by crystal structures of a myxobacterial phytochrome. *IUCrJ*, **2018**, 5, 619-634 | 4.7 | 20 |
| 29 | Affinity Improvement of a Cancer-Targeted Antibody through Alanine-Induced Adjustment of Antigen-Antibody Interface. *Structure*, **2019**, 27, 519-527.e5 | 5.2 | 17 |
| 28 | Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. *ChemCatChem*, **2014**, 6, n/a-n/a | 5.2 | 16 |
| 27 | Structural features of interfacial tyrosine residue in ROBO1 fibronectin domain-antibody complex: Crystallographic, thermodynamic, and molecular dynamic analyses. *Protein Science*, **2015**, 24, 328-40 | 6.3 | 16 |
| 26 | Serial femtosecond crystallography at the SACLA: breakthrough to dynamic structural biology. *Biophysical Reviews*, **2018**, 10, 209-218 | 3.7 | 15 |
| 25 | Ubiquitination of Lysine 867 of the Human SETDB1 Protein Upregulates Its Histone H3 Lysine 9 (H3K9) Methyltransferase Activity. *PLoS ONE*, **2016**, 11, e0165766 | 3.7 | 14 |
| 24 | Loop of Streptomyces Feruloyl Esterase Plays an Important Role in the Enzyme's Catalyzing the Release of Ferulic Acid from Biomass. *Applied and Environmental Microbiology*, **2018**, 84, | 4.8 | 12 |
| 23 | Crystal structure of streptavidin mutant with low immunogenicity. *Journal of Bioscience and Bioengineering*, **2015**, 119, 642-7 | 3.3 | 11 |
| 22 | Structural insights into a secretory abundant heat-soluble protein from an anhydrobiotic tardigrade, Ramazzottius varieornatus. *FEBS Letters*, **2017**, 591, 2458-2469 | 3.8 | 11 |
| 21 | Epiregulin Recognition Mechanisms by Anti-epiregulin Antibody 9E5: STRUCTURAL, FUNCTIONAL, AND MOLECULAR DYNAMICS SIMULATION ANALYSES. *Journal of Biological Chemistry*, **2016**, 291, 2319-30 | 5.4 | 9 |
| 20 | Insights into unknown foreign ligand in copper nitrite reductase. *Biochemical and Biophysical Research Communications*, **2015**, 464, 622-8 | 3.4 | 8 |
| 19 | The N-terminal acidic residue of the cytosolic helix 8 of an odorant receptor is responsible for different response dynamics via G-protein. *FEBS Letters*, **2015**, 589, 1136-42 | 3.8 | 8 |
| 18 | Structural basis for intramolecular interaction of post-translationally modified H-RasGTP prepared by protein ligation. *FEBS Letters*, **2017**, 591, 2470-2481 | 3.8 | 8 |
| 17 | Isolation and characterization of 4-hydroxy-3-methylbut-2-enyl diphosphate reductase gene from Botryococcus braunii, race B. *Journal of Plant Research*, **2018**, 131, 839-848 | 2.6 | 7 |
| 16 | Active site geometry of a novel aminopropyltransferase for biosynthesis of hyperthermophile-specific branched-chain polyamine. *FEBS Journal*, **2017**, 284, 3684-3701 | 5.7 | 7 |
| 15 | Structural Basis for the Serratia marcescens Lipase Secretion System: Crystal Structures of the Membrane Fusion Protein and Nucleotide-Binding Domain. *Biochemistry*, **2017**, 56, 6281-6291 | 3.2 | 7 |

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| 14 | Structure-based design of a streptavidin mutant specific for an artificial biotin analogue. *Journal of Biochemistry*, **2015**, 157, 467-75 | 3.1 | 4 |
| 13 | Chemical modification of arginine alleviates the decline in activity during catalysis of spinach Rubisco. *Biochemical and Biophysical Research Communications*, **2003**, 301, 591-7 | 3.4 | 4 |
| 12 | Learning RuBisCO's birth and subsequent environmental adaptation. *Biochemical Society Transactions*, **2019**, 47, 179-185 | 5.1 | 4 |
| 11 | Docking analysis of models for 4-hydroxy-3-methylbut-2-enyl diphosphate reductase and a ferredoxin from , race B. *Plant Biotechnology*, **2018**, 35, 297-301 | 1.3 | 3 |
| 10 | Water-Mediated Recognition of Simple Alkyl Chains by Heart-Type Fatty-Acid-Binding Protein. *Angewandte Chemie*, **2015**, 127, 1528-1531 | 3.6 | 3 |
| 9 | Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity. *ChemCatChem*, **2014**, 6, 1123-1123 | 5.2 | 3 |
| 8 | Crystallization and preliminary X-ray crystallographic analysis of UDP-glucuronic acid:flavonol-3-O-glucuronosyltransferase (VvGT5) from the grapevine Vitis vinifera. *Acta Crystallographica Section F: Structural Biology Communications*, **2013**, 69, 65-8 | | 2 |
| 7 | 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 | 4 | 2 |
| 6 | Crystallographic study of dioxygen chemistry in a copper-containing nitrite reductase from Geobacillus thermodenitrificans. *Acta Crystallographica Section D: Structural Biology*, **2018**, 74, 769-777 | 5.5 | 2 |
| 5 | Improvement of Production and Isolation of Human Neuraminidase-1 Crystals.. *ACS Applied Bio Materials*, **2019**, 2, 4941-4952 | 4.1 | 1 |
| 4 | The C-terminal flexible region of branched-chain polyamine synthase facilitates substrate specificity and catalysis. *FEBS Journal*, **2019**, 286, 3926-3940 | 5.7 | 0 |
| 3 | New molecular packing in a crystal of pseudoazurin from Alcaligenes faecalis: a double-helical arrangement of blue copper. *Acta Crystallographica Section F, Structural Biology Communications*, **2017**, 73, 159-166 | 1.1 | |
| 2 | Trends in Methods for Accelerating Structure Determination of Membrane Proteins. *Nihon Kessho Gakkaishi*, **2017**, 59, 147-148 | 0 | |
| 1 | Substrate Specificity of an Aminopropyltransferase and the Biosynthesis Pathway of Polyamines in the Hyperthermophilic Crenarchaeon Pyrobaculum calidifontis. *Catalysts*, **2022**, 12, 567 | 4 | |