

Hideaki Shimizu

List of Publications by Year in descending order

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30
papers

2,407
citations

361045

20
h-index

454577

30
g-index

30
all docs

30
docs citations

30
times ranked

3486
citing authors

#	ARTICLE	IF	CITATIONS
1	PINK1 autophosphorylation upon membrane potential dissipation is essential for Parkin recruitment to damaged mitochondria. <i>Nature Communications</i> , 2012, 3, 1016.	5.8	465
2	Semi-rational engineering of a coral fluorescent protein into an efficient highlighter. <i>EMBO Reports</i> , 2005, 6, 233-238.	2.0	320
3	Crystal structure of nitric oxide reductase from denitrifying fungus <i>Fusarium oxysporum</i> . <i>Nature Structural Biology</i> , 1997, 4, 827-832.	9.7	172
4	Crystal Structure of an Active Form of BACE1, an Enzyme Responsible for Amyloid β Protein Production. <i>Molecular and Cellular Biology</i> , 2008, 28, 3663-3671.	1.1	167
5	High-Resolution Crystal Structures and Spectroscopy of Native and Compound I Cytochrome c Peroxidase. <i>Biochemistry</i> , 2003, 42, 5600-5608.	1.2	140
6	The Novel Binding Mode of N-Alkyl-N-hydroxyguanidine to Neuronal Nitric Oxide Synthase Provides Mechanistic Insights into NO Biosynthesis. <i>Biochemistry</i> , 2002, 41, 13868-13875.	1.2	122
7	RNA-binding Protein TLS Is a Major Nuclear Aggregate-interacting Protein in Huntingtin Exon 1 with Expanded Polyglutamine-expressing Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 6489-6500.	1.6	109
8	Comparison of the Heme-free and -bound Crystal Structures of Human Heme Oxygenase-1. <i>Journal of Biological Chemistry</i> , 2003, 278, 7834-7843.	1.6	104
9	Proton Delivery in NO Reduction by Fungal Nitric-oxide Reductase. <i>Journal of Biological Chemistry</i> , 2000, 275, 4816-4826.	1.6	100
10	Crystal Structure of <i>Nitrosomonas europaea</i> Cytochrome c Peroxidase and the Structural Basis for Ligand Switching in Bacterial Di-heme Peroxidases. <i>Biochemistry</i> , 2001, 40, 13483-13490.	1.2	83
11	Crystal Structures of Epothilone D-bound, Epothilone B-bound, and Substrate-free Forms of Cytochrome P450 epoK. <i>Journal of Biological Chemistry</i> , 2003, 278, 44886-44893.	1.6	75
12	Membrane microdomain switching: a regulatory mechanism of amyloid precursor protein processing. <i>Journal of Cell Biology</i> , 2008, 183, 339-352.	2.3	61
13	Singular localization of sodium channel $\beta 4$ subunit in unmyelinated fibres and its role in the striatum. <i>Nature Communications</i> , 2014, 5, 5525.	5.8	61
14	The E1 Mechanism in Photo-Induced β -Elimination Reactions for Green-to-Red Conversion of Fluorescent Proteins. <i>Chemistry and Biology</i> , 2009, 16, 1140-1147.	6.2	56
15	The RIKEN structural biology beamline II (BL44B2) at the SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 711-714.	0.7	50
16	Discovery of a small molecule inhibitor targeting dengue virus NS5 RNA-dependent RNA polymerase. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007894.	1.3	49
17	Crystal structures of cytochrome P450 _{nor} and its mutants (Ser286 \rightarrow Val, Thr) in the ferric resting state at cryogenic temperature: a comparative analysis with monooxygenase cytochrome P450s. <i>Journal of Inorganic Biochemistry</i> , 2000, 81, 191-205.	1.5	45
18	A Novel Heme and Peroxide-dependent Tryptophan-tyrosine Cross-link in a Mutant of Cytochrome c Peroxidase. <i>Journal of Molecular Biology</i> , 2003, 328, 157-166.	2.0	39

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19	Structure of cytochrome c6 from the red alga <i>Porphyra yezoensis</i> at 1.57 Å resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 1577-1582.	2.5	24
20	Mutation effects of a conserved threonine (Thr243) of cytochrome P450 _{nor} on its structure and function. <i>Journal of Inorganic Biochemistry</i> , 2000, 82, 103-111.	1.5	22
21	A molecular mechanism realizing sequence-specific recognition of nucleic acids by TDP-43. <i>Scientific Reports</i> , 2016, 6, 20576.	1.6	22
22	X-ray structure of nitric oxide reductase (cytochrome P450 _{nor}) at atomic resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 81-89.	2.5	21
23	Comparative functional analysis of CYP71AV1 natural variants reveals an important residue for the successive oxidation of amorpha-4,11-diene. <i>FEBS Letters</i> , 2013, 587, 278-284.	1.3	21
24	Crystallization, preliminary diffraction and electron paramagnetic resonance studies of a single crystal of cytochrome P450 _{nor} . <i>FEBS Letters</i> , 1997, 412, 346-350.	1.3	19
25	Parallel homodimer structures of the extracellular domains of the voltage-gated sodium channel β_2 subunit explain its role in cell-cell adhesion. <i>Journal of Biological Chemistry</i> , 2017, 292, 13428-13440.	1.6	16
26	Structure-based site-directed photo-crosslinking analyses of multimeric cell-adhesive interactions of voltage-gated sodium channel β_2 subunits. <i>Scientific Reports</i> , 2016, 6, 26618.	1.6	13
27	Acidic Chitinase-Chitin Complex Is Dissociated in a Competitive Manner by Acetic Acid: Purification of Natural Enzyme for Supplementation Purposes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 362.	1.8	12
28	Aggregation mechanism of polyglutamine diseases revealed using quantum chemical calculations, fragment molecular orbital calculations, molecular dynamics simulations, and binding free energy calculations. <i>Computational and Theoretical Chemistry</i> , 2006, 778, 85-95.	1.5	9
29	Crystallization and preliminary X-ray diffraction analysis of a rat biliverdin reductase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 1180-1182.	2.5	8
30	Molecular mechanism of nitric oxide reduction catalyzed by fungal nitric oxide reductase. <i>International Congress Series</i> , 2002, 1233, 59-62.	0.2	2