

# Hideaki Shimizu

## List of Publications by Citations

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30  
papers

1,998  
citations

20  
h-index

30  
g-index

30  
ext. papers

2,228  
ext. citations

5.6  
avg, IF

3.76  
L-index

#	Paper	IF	Citations
30	PINK1 autophosphorylation upon membrane potential dissipation is essential for Parkin recruitment to damaged mitochondria. <i>Nature Communications</i> , <b>2012</b> , 3, 1016	17.4	323
29	Semi-rational engineering of a coral fluorescent protein into an efficient highlighter. <i>EMBO Reports</i> , <b>2005</b> , 6, 233-8	6.5	280
28	Crystal structure of nitric oxide reductase from denitrifying fungus <i>Fusarium oxysporum</i> . <i>Nature Structural Biology</i> , <b>1997</b> , 4, 827-32		152
27	Crystal structure of an active form of BACE1, an enzyme responsible for amyloid beta protein production. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 3663-71	4.8	131
26	High-resolution crystal structures and spectroscopy of native and compound I cytochrome c peroxidase. <i>Biochemistry</i> , <b>2003</b> , 42, 5600-8	3.2	129
25	The novel binding mode of N-alkyl-N <sup>γ</sup> hydroxyguanidine to neuronal nitric oxide synthase provides mechanistic insights into NO biosynthesis. <i>Biochemistry</i> , <b>2002</b> , 41, 13868-75	3.2	119
24	Proton delivery in NO reduction by fungal nitric-oxide reductase. Cryogenic crystallography, spectroscopy, and kinetics of ferric-NO complexes of wild-type and mutant enzymes. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 4816-26	5.4	91
23	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> , <b>2008</b> , 283, 6489-500	5.4	90
22	Comparison of the heme-free and -bound crystal structures of human heme oxygenase-1. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 7834-43	5.4	90
21	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> , <b>2001</b> , 40, 13483-90	3.2	72
20	Crystal structures of epothilone D-bound, epothilone B-bound, and substrate-free forms of cytochrome P450 <sub>epoK</sub> . <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 44886-93	5.4	71
19	Membrane microdomain switching: a regulatory mechanism of amyloid precursor protein processing. <i>Journal of Cell Biology</i> , <b>2008</b> , 183, 339-52	7.3	55
18	The E1 mechanism in photo-induced beta-elimination reactions for green-to-red conversion of fluorescent proteins. <i>Chemistry and Biology</i> , <b>2009</b> , 16, 1140-7		49
17	Singular localization of sodium channel $\alpha$ subunit in unmyelinated fibres and its role in the striatum. <i>Nature Communications</i> , <b>2014</b> , 5, 5525	17.4	45
16	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> , <b>2001</b> , 467-468, 711-714	1.2	44
15	Crystal structures of cytochrome P450 <sub>nor</sub> and its mutants (Ser286-->Val, Thr) in the ferric resting state at cryogenic temperature: a comparative analysis with monooxygenase cytochrome P450s. <i>Journal of Inorganic Biochemistry</i> , <b>2000</b> , 81, 191-205	4.2	43
14	A novel heme and peroxide-dependent tryptophan-tyrosine cross-link in a mutant of cytochrome c peroxidase. <i>Journal of Molecular Biology</i> , <b>2003</b> , 328, 157-66	6.5	34

13	Discovery of a small molecule inhibitor targeting dengue virus NS5 RNA-dependent RNA polymerase. <i>PLoS Neglected Tropical Diseases</i> , <b>2019</b> , 13, e0007894	4.8	24
12	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> , <b>2000</b> , 56, 1577-82		23
11	Mutation effects of a conserved threonine (Thr243) of cytochrome P450nor on its structure and function. <i>Journal of Inorganic Biochemistry</i> , <b>2000</b> , 82, 103-11	4.2	22
10	Comparative functional analysis of CYP71AV1 natural variants reveals an important residue for the successive oxidation of amorpho-4,11-diene. <i>FEBS Letters</i> , <b>2013</b> , 587, 278-84	3.8	19
9	X-ray structure of nitric oxide reductase (cytochrome P450nor) at atomic resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2002</b> , 58, 81-9		18
8	Crystallization, preliminary diffraction and electron paramagnetic resonance studies of a single crystal of cytochrome P450nor. <i>FEBS Letters</i> , <b>1997</b> , 412, 346-50	3.8	15
7	A molecular mechanism realizing sequence-specific recognition of nucleic acids by TDP-43. <i>Scientific Reports</i> , <b>2016</b> , 6, 20576	4.9	12
6	Structure-based site-directed photo-crosslinking analyses of multimeric cell-adhesive interactions of voltage-gated sodium channel $\beta$ subunits. <i>Scientific Reports</i> , <b>2016</b> , 6, 26618	4.9	11
5	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> , <b>2018</b> , 19,	6.3	9
4	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> , <b>2006</b> , 778, 85-95		9
3	Parallel homodimer structures of the extracellular domains of the voltage-gated sodium channel $\beta$ subunit explain its role in cell-cell adhesion. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 13428-13440	5.4	8
2	Crystallization and preliminary X-ray diffraction analysis of a rat biliverdin reductase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2000</b> , 56, 1180-2		8
1	Molecular mechanism of nitric oxide reduction catalyzed by fungal nitric oxide reductase. <i>International Congress Series</i> , <b>2002</b> , 1233, 59-62		2