

Sampa Biswas

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

438
citations

1040056

9
h-index

752698

20
g-index

25
all docs

25
docs citations

25
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizations of SARS-CoV-2 mutational profile, spike protein stability and viral transmission. <i>Infection, Genetics and Evolution</i> , 2020, 85, 104445.	2.3	180
2	Improving thermostability of papain through structure-based protein engineering. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 457-467.	2.1	36
3	Structural Basis of the Unusual Stability and Substrate Specificity of Ervatamin C, a Plant Cysteine Protease from <i>Ervatamia coronaria</i> . <i>Biochemistry</i> , 2004, 43, 1532-1540.	2.5	28
4	Protein interactions of Merocyanine 540: Spectroscopic and crystallographic studies with lysozyme as a model protein. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 121, 46-56.	3.8	25
5	Structural insights into the substrate specificity and activity of ervatamins, the papain-like cysteine proteases from a tropical plant, <i>Ervatamia coronaria</i> . <i>FEBS Journal</i> , 2008, 275, 421-434.	4.7	19
6	The structure of a thermostable mutant of pro-papain reveals its activation mechanism. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1591-1603.	2.5	19
7	Proposed amino acid sequence and the 1.63 Å... X-ray crystal structure of a plant cysteine protease, ervatamin B: Some insights into the structural basis of its stability and substrate specificity. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 51, 489-497.	2.6	18
8	Production and recovery of recombinant propapain with high yield. <i>Phytochemistry</i> , 2009, 70, 465-472.	2.9	18
9	A thermostable cysteine protease precursor from a tropical plant contains an unusual C-terminal propeptide: cDNA cloning, sequence comparison and molecular modeling studies. <i>Biochemical and Biophysical Research Communications</i> , 2007, 362, 965-970.	2.1	12
10	Mutation in the Pro-Peptide Region of a Cysteine Protease Leads to Altered Activity and Specificity—A Structural and Biochemical Approach. <i>PLoS ONE</i> , 2016, 11, e0158024.	2.5	9
11	Highly Conserved Arg Residue of ERFNIN Motif of Pro-Domain is Important for pH-Induced Zymogen Activation Process in Cysteine Cathepsins K and L. <i>Cell Biochemistry and Biophysics</i> , 2018, 76, 219-229.	1.8	8
12	Exploring protein-protein intermolecular recognition between meprin- β and endogenous protease regulator cystatinC coupled with pharmacophore elucidation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 440-453.	3.5	8
13	Crystallization and preliminary X-ray analysis of ervatamin B and C, two thiol proteases from <i>Ervatamia coronaria</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1074-1075.	2.5	7
14	Functional properties of soybean nodulin 26 from a comparative three-dimensional model. <i>FEBS Letters</i> , 2004, 558, 39-44.	2.8	7
15	Inhibition of Plasmodium falciparum cysteine protease falcipain-2 by a human cross-class inhibitor serpinB3: A mechanistic insight. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 854-865.	2.3	7
16	Not all pycnodysostosis-related mutants of human cathepsin K are inactive— crystal structure and biochemical studies of an active mutant I249T. <i>FEBS Journal</i> , 2018, 285, 4265-4280.	4.7	6
17	Heterologous expression of a thermostable plant cysteine protease in Escherichia coli both in soluble and insoluble forms. <i>Process Biochemistry</i> , 2010, 45, 1307-1312.	3.7	5
18	C-terminal extension of a plant cysteine protease modulates proteolytic activity through a partial inhibitory mechanism. <i>FEBS Journal</i> , 2011, 278, 3012-3024.	4.7	5

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19	Enhancement of Proteolytic Activity of a Thermostable Papain-Like Protease by Structure-Based Rational Design. PLoS ONE, 2013, 8, e62619.	2.5	5
20	Ni ²⁺ -Schiff base complex as an enzyme inhibitor of hen egg white lysozyme: a crystallographic and spectroscopic study. Metallomics, 2014, 6, 1737.	2.4	5
21	Structure-guided protein engineering of human cathepsin L for efficient collagenolytic activity. Protein Engineering, Design and Selection, 2021, 34, .	2.1	5
22	Expression of recombinant human cathepsin K is enhanced by codon optimization. Process Biochemistry, 2012, 47, 1944-1947.	3.7	3
23	Crystallization and preliminary X-ray diffraction studies of the precursor protein of a thermostable variant of papain. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 634-636.	0.7	2
24	New insights of falcipain 2 structure from Plasmodium falciparum 3D7 strain. Biochemical and Biophysical Research Communications, 2022, 590, 145-151.	2.1	1