Sampa Biswas

List of Publications by Year in descending order

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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	New insights of falcipain 2 structure from Plasmodium falciparum 3D7 strain. Biochemical and Biophysical Research Communications, 2022, 590, 145-151.	2.1	1
2	Structure-guided protein engineering of human cathepsin L for efficient collagenolytic activity. Protein Engineering, Design and Selection, 2021, 34, .	2.1	5
3	Characterizations of SARS-CoV-2 mutational profile, spike protein stability and viral transmission. Infection, Genetics and Evolution, 2020, 85, 104445.	2.3	180
4	Inhibition of Plasmodium falciparum cysteine protease falcipain-2 by a human cross-class inhibitor serpinB3: A mechanistic insight. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 854-865.	2.3	7
5	Exploring proteinâ€“protein intermolecular recognition between meprin-Î± and endogenous protease regulator cystatinC coupled with pharmacophore elucidation. Journal of Biomolecular Structure and Dynamics, 2019, 37, 440-453.	3.5	8
6	Highly Conserved Arg Residue of ERFNIN Motif of Pro-Domain is Important for pH-Induced Zymogen Activation Process in Cysteine Cathepsins K and L. Cell Biochemistry and Biophysics, 2018, 76, 219-229.	1.8	8
7	Not all pycnodysostosisâ€related mutants of human cathepsin K are inactive â€“ crystal structure and biochemical studies of an active mutant I249T. FEBS Journal, 2018, 285, 4265-4280.	4.7	6
8	Mutation in the Pro-Peptide Region of a Cysteine Protease Leads to Altered Activity and Specificityâ€”A Structural and Biochemical Approach. PLoS ONE, 2016, 11, e0158024.	2.5	9
9	Nillâ€“Schiff base complex as an enzyme inhibitor of hen egg white lysozyme: a crystallographic and spectroscopic study. Metallomics, 2014, 6, 1737.	2.4	5
10	Protein interactions of Merocyanine 540: Spectroscopic and crystallographic studies with lysozyme as a model protein. Journal of Photochemistry and Photobiology B: Biology, 2013, 121, 46-56.	3.8	25
11	Enhancement of Proteolytic Activity of a Thermostable Papain-Like Protease by Structure-Based Rational Design. PLoS ONE, 2013, 8, e62619.	2.5	5
12	The structure of a thermostable mutant of pro-papain reveals its activation mechanism. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1591-1603.	2.5	19
13	Expression of recombinant human cathepsin K is enhanced by codon optimization. Process Biochemistry, 2012, 47, 1944-1947.	3.7	3
14	Câ€Terminal extension of a plant cysteine protease modulates proteolytic activity through a partial inhibitory mechanism. FEBS Journal, 2011, 278, 3012-3024.	4.7	5
15	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
16	Heterologous expression of a thermostable plant cysteine protease in Escherichia coli both in soluble and insoluble forms. Process Biochemistry, 2010, 45, 1307-1312.	3.7	5
17	Improving thermostability of papain through structure-based protein engineering. Protein Engineering, Design and Selection, 2010, 23, 457-467.	2.1	36
18	Production and recovery of recombinant propapain with high yield. Phytochemistry, 2009, 70, 465-472.	2.9	18

#	Article	IF	Citations
19	Structural insights into the substrate specificity and activity of ervatamins, the papainâ€like cysteine proteases from a tropical plant, Ervatamiaâ€ƒcoronaria. FEBS Journal, 2008, 275, 421-434.	4.7	19
20	A thermostable cysteine protease precursor from a tropical plant contains an unusual C-terminal propeptide: cDNA cloning, sequence comparison and molecular modeling studies. Biochemical and Biophysical Research Communications, 2007, 362, 965-970.	2.1	12
21	Structural Basis of the Unusual Stability and Substrate Specificity of Ervatamin C, a Plant Cysteine Protease from Ervatamia coronaria. Biochemistry, 2004, 43, 1532-1540.	2.5	28
22	Functional properties of soybean nodulin 26 from a comparative three-dimensional model. FEBS Letters, 2004, 558, 39-44.	2.8	7
23	Proposed amino acid sequence and the 1.63 Ã... X-ray crystal structure of a plant cysteine protease, ervatamin B: Some insights into the structural basis of its stability and substrate specificity. Proteins: Structure, Function and Bioinformatics, 2003, 51, 489-497.	2.6	18
24	Crystallization and preliminary X-ray analysis of ervatamin B and C, two thiol proteases fromErvatamia coronaria. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1074-1075.	2.5	7