Suman Kundu

List of Publications by Year in descending order

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52 papers	1,034 citations	516710 16 h-index	454955 30 g-index
55 all docs	55 docs citations	55 times ranked	1146 citing authors

#	Article	IF	Citations
1	Computational insight into the three-dimensional structure of ADP ribosylation factor like protein 15, a novel susceptibility gene for rheumatoid arthritis. Journal of Biomolecular Structure and Dynamics, 2022, 40, 4626-4641.	3.5	17
2	Identification of a peptide that disrupts hADA3-E6 interaction with implications in HPV induced cancer therapy. Life Sciences, 2022, 288, 120157.	4.3	1
3	Suramin, penciclovir, and anidulafungin exhibit potential in the treatment of COVID-19 via binding to nsp12 of SARS-CoV-2. Journal of Biomolecular Structure and Dynamics, 2022, 40, 14067-14083.	3.5	11
4	Repurposing the Pathogen Box compounds for identification of potent anti-malarials against blood stages of Plasmodium falciparum with PfUCHL3 inhibitory activity. Scientific Reports, 2022, 12, 918.	3.3	4
5	Therapeutic enzymes as non-conventional targets in cardiovascular impairments: A comprehensive review. Canadian Journal of Physiology and Pharmacology, 2022, 100, 197-209.	1.4	3
6	Multiple putative methemoglobin reductases in C. reinhardtii may support enzymatic functions for its multiple hemoglobins. International Journal of Biological Macromolecules, 2021, 171, 465-479.	7.5	3
7	Stability and Folding of the Unusually Stable Hemoglobin from Synechocystis is Subtly Optimized and Dependent on the Key Heme Pocket Residues. Protein and Peptide Letters, 2021, 28, 164-182.	0.9	1
8	L. major apo-acyl carrier protein forms ordered aggregates due to an exposed phenylalanine, while phosphopantetheine inhibits aggregation in the holo-form. International Journal of Biological Macromolecules, 2021, 179, 144-153.	7.5	1
9	Herbs and their bioactive ingredients in cardio-protection: Underlying molecular mechanisms and evidences from clinical studies. Phytomedicine, 2021, 92, 153753.	5.3	8
10	Advances in mass spectrometric methods for detection of hemoglobin disorders. Analytical Biochemistry, 2021, 629, 114314.	2.4	6
11	An overview of the fatty acid biosynthesis in the protozoan parasite Leishmania and its relevance as a drug target against leishmaniasis. Molecular and Biochemical Parasitology, 2021, 246, 111416.	1.1	7
12	Functional implications of vascular endothelium in regulation of endothelial nitric oxide synthesis to control blood pressure and cardiac functions. Life Sciences, 2020, 259, 118377.	4.3	23
13	Identification and characterization of a recombinant cognate hemoglobin reductase from Synechocystis sp. PCC 6803. International Journal of Biological Macromolecules, 2020, 162, 1054-1063.	7.5	7
14	Dopamine Î² hydroxylase as a potential drug target to combat hypertension. Expert Opinion on Investigational Drugs, 2020, 29, 1043-1057.	4.1	14
15	Coping with stress: role of Arabidopsis phytoglobins in defence against Sclerotinia sclerotiorum. Journal of Plant Biochemistry and Biotechnology, 2020, 29, 804-815.	1.7	0
16	Dopamine Beta Hydroxylase: An Enzyme with Therapeutic Potential to Combat Neural and Cardiovascular Diseases. , 2020, , 339-357.		2
17	Cytochrome B5 Reductase 3 Can Be Approached As A Contemporary Therapeutic Target to Restrain Hypertension. FASEB Journal, 2020, 34, 1-1.	0.5	1
18	Denaturant Induced Equilibrium Unfolding and Conformational Transitional Studies of Germinated Fenugreek Î²-Amylase Revealed Molten Globule like State at Low pH. Protein and Peptide Letters, 2020, 27, 1046-1057.	0.9	0

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19	A conformational switch from a closed apo- to an open holo-form equips the acyl carrier protein for acyl chain accommodation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 163-174.	2.3	6
20	Rice phytoglobins regulate responses under low mineral nutrients and abiotic stresses in <scp>Arabidopsis thaliana</scp>. Plant, Cell and Environment, 2018, 41, 215-230.	5.7	25
21	The â€œRecognition Helixâ€•of the Type II Acyl Carrier Protein (ACP) Utilizes a â€œUbiquitin Interacting Motif (UIM)â€•like Surface To Bind Its Partners. Biochemistry, 2018, 57, 3690-3701.	2.5	7
22	Dopamineâ€Î²â€•monooxygenase inhibitors obtained by structure based methods exhibited antiâ€•hypertensive effect in Lâ€NAME induced hypertensive rats. FASEB Journal, 2018, 32, 797.5.	0.5	1
23	NO dioxygenase- and peroxidase-like activity of Arabidopsis phytoglobin 3 and its role in Sclerotinia sclerotiorum defense. Nitric Oxide - Biology and Chemistry, 2017, 68, 150-162.	2.7	6
24	Active site gate of M32 carboxypeptidases illuminated by crystal structure and molecular dynamics simulations. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1406-1415.	2.3	8
25	Characterization of SNPs in the dopamine-Î²-hydroxylase gene providing new insights into its structure-function relationship. Neurogenetics, 2017, 18, 155-168.	1.4	9
26	Phe28^{B10} Induces Channel-Forming Cytotoxic Amyloid Fibrillation in Human Neuroglobin, the Brain-Specific Hemoglobin. Biochemistry, 2016, 55, 6832-6847.	2.5	1
27	Role of DAF-21protein in Caenorhabditis elegans immunity against Proteus mirabilis infection. Journal of Proteomics, 2016, 145, 81-90.	2.4	13
28	Penta- and hexa-coordinate ferric hemoglobins display distinct pH titration profiles measured by Soret peak shifts. Analytical Biochemistry, 2016, 510, 120-128.	2.4	5
29	Structural and Functional Significance of the N- and C-Terminal Appendages in Arabidopsis Truncated Hemoglobin. Biochemistry, 2016, 55, 1724-1740.	2.5	8
30	Molecular dynamics simulations indicate that tyrosineB10 limits motions of distal histidine to regulate CO binding in soybean leghemoglobin. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1836-1848.	2.6	0
31	<scp>D</scp>rosophila glob1 expresses dynamically and is required for development and oxidative stress response. Genesis, 2015, 53, 719-737.	1.6	20
32	Heat, Acid and Chemically Induced Unfolding Pathways, Conformational Stability and Structure-Function Relationship in Wheat Î±-Amylase. PLoS ONE, 2015, 10, e0129203.	2.5	17
33	Significantly Enhanced Heme Retention Ability of Myoglobin Engineered to Mimic the Third Covalent Linkage by Nonaxial Histidine to Heme (Vinyl) in Synechocystis Hemoglobin. Journal of Biological Chemistry, 2015, 290, 1979-1993.	3.4	16
34	The Structure of the Holo-Acyl Carrier Protein of Leishmania major Displays a Remarkably Different Phosphopantetheinyl Transferase Binding Interface. Biochemistry, 2015, 54, 5632-5645.	2.5	5
35	Characterization of monomeric soybean leghemoglobin using MÃ¶ssbauer spectroscopy with a high velocity resolution. Hyperfine Interactions, 2014, 226, 431-438.	0.5	6
36	Proteomic investigation of Vibrio alginolyticus challenged Caenorhabditis elegans revealed regulation of cellular homeostasis proteins and their role in supporting innate immune system. Proteomics, 2014, 14, 1820-1832.	2.2	31

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37	X-Ray crystallographic structural characteristics of Arabidopsis hemoglobin I and their functional implications. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1944-1956.	2.3	19
38	Thermal, Chemical and pH Induced Denaturation of a Multimeric Î²-Galactosidase Reveals Multiple Unfolding Pathways. PLoS ONE, 2012, 7, e50380.	2.5	95
39	Heme iron state in various oxyhemoglobins probed using MÃ¶ssbauer spectroscopy with a high velocity resolution. BioMetals, 2011, 24, 501-512.	4.1	17
40	Structural Insight of Dopamine Î²-Hydroxylase, a Drug Target for Complex Traits, and Functional Significance of Exonic Single Nucleotide Polymorphisms. PLoS ONE, 2011, 6, e26509.	2.5	28
41	Equilibrium unfolding of kinetically stable serine protease milin: the presence of various active and inactive dimeric intermediates. European Biophysics Journal, 2010, 39, 1385-1396.	2.2	4
42	A kinetically stable plant subtilase with unique peptide mass fingerprints and dimerization properties. Biophysical Chemistry, 2009, 139, 13-23.	2.8	10
43	Role of Phenylalanine B10 in Plant Nonsymbiotic Hemoglobinsâ€,â€¡. Biochemistry, 2006, 45, 9735-9745.	2.5	45
44	The Crystal Structure of Synechocystis Hemoglobin with a Covalent Heme Linkage. Journal of Biological Chemistry, 2004, 279, 16535-16542.	3.4	65
45	Tyrosine B10 Inhibits Stabilization of Bound Carbon Monoxide and Oxygen in Soybean Leghemoglobinâ€. Biochemistry, 2004, 43, 6241-6252.	2.5	31
46	Crystallographic Analysis of Synechocystis Cyanoglobin Reveals the Structural Changes Accompanying Ligand Binding in a Hexacoordinate Hemoglobin. Journal of Molecular Biology, 2004, 341, 1097-1108.	4.2	62
47	Direct Measurement of Equilibrium Constants for High-Affinity Hemoglobins. Biophysical Journal, 2003, 84, 3931-3940.	0.5	68
48	Plants, humans and hemoglobins. Trends in Plant Science, 2003, 8, 387-393.	8.8	145
49	The leghemoglobin proximal heme pocket directs oxygen dissociation and stabilizes bound heme. Proteins: Structure, Function and Bioinformatics, 2002, 46, 268-277.	2.6	67
50	Distal heme pocket regulation of ligand binding and stability in soybean leghemoglobin. Proteins: Structure, Function and Bioinformatics, 2002, 50, 239-248.	2.6	50
51	Acid and Chemical Induced Conformational Changes of Ervatamin B. Presence of Partially Structured Multiple Intermediates. BMB Reports, 2002, 35, 143-154.	2.4	13
52	Novel Hemoglobin from Synechocystis sp. PCC 6803: Shedding Light on the Structure-Function Relationship and Its Biotechnological Applications. , 0, , .		0