

Suman Kundu

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,034
citations

516681

16
h-index

454934

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. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 4626-4641.	3.5	17
2	Identification of a peptide that disrupts hADA3-E6 interaction with implications in HPV induced cancer therapy. <i>Life Sciences</i> , 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. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 14067-14083.	3.5	11
4	Repurposing the Pathogen Box compounds for identification of potent anti-malarials against blood stages of <i>Plasmodium falciparum</i> with PfUCLH3 inhibitory activity. <i>Scientific Reports</i> , 2022, 12, 918.	3.3	4
5	Therapeutic enzymes as non-conventional targets in cardiovascular impairments: A comprehensive review. <i>Canadian Journal of Physiology and Pharmacology</i> , 2022, 100, 197-209.	1.4	3
6	Multiple putative methemoglobin reductases in <i>C. reinhardtii</i> may support enzymatic functions for its multiple hemoglobins. <i>International Journal of Biological Macromolecules</i> , 2021, 171, 465-479.	7.5	3
7	Stability and Folding of the Unusually Stable Hemoglobin from <i>Synechocystis</i> is Subtly Optimized and Dependent on the Key Heme Pocket Residues. <i>Protein and Peptide Letters</i> , 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. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 144-153.	7.5	1
9	Herbs and their bioactive ingredients in cardio-protection: Underlying molecular mechanisms and evidences from clinical studies. <i>Phytomedicine</i> , 2021, 92, 153753.	5.3	8
10	Advances in mass spectrometric methods for detection of hemoglobin disorders. <i>Analytical Biochemistry</i> , 2021, 629, 114314.	2.4	6
11	An overview of the fatty acid biosynthesis in the protozoan parasite <i>Leishmania</i> and its relevance as a drug target against leishmaniasis. <i>Molecular and Biochemical Parasitology</i> , 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. <i>Life Sciences</i> , 2020, 259, 118377.	4.3	23
13	Identification and characterization of a recombinant cognate hemoglobin reductase from <i>Synechocystis</i> sp. PCC 6803. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1054-1063.	7.5	7
14	Dopamine β hydroxylase as a potential drug target to combat hypertension. <i>Expert Opinion on Investigational Drugs</i> , 2020, 29, 1043-1057.	4.1	14
15	Coping with stress: role of <i>Arabidopsis</i> phytooglobins in defence against <i>Sclerotinia sclerotiorum</i> . <i>Journal of Plant Biochemistry and Biotechnology</i> , 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. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
18	Denaturant Induced Equilibrium Unfolding and Conformational Transitional Studies of Germinated Fenugreek β -Amylase Revealed Molten Globule like State at Low pH. <i>Protein and Peptide Letters</i> , 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. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 163-174.	2.3	6
20	Rice phytooglobins regulate responses under low mineral nutrients and abiotic stresses in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 215-230.	5.7	25
21	The "Recognition Helix" of the Type II Acyl Carrier Protein (ACP) Utilizes a "Ubiquitin Interacting Motif (UIM)-like Surface To Bind Its Partners. <i>Biochemistry</i> , 2018, 57, 3690-3701.	2.5	7
22	Dopamine- β -monooxygenase inhibitors obtained by structure based methods exhibited anti-hypertensive effect in L-NAME induced hypertensive rats. <i>FASEB Journal</i> , 2018, 32, 797.5.	0.5	1
23	NO dioxygenase- and peroxidase-like activity of <i>Arabidopsis</i> phytooglobin 3 and its role in <i>Sclerotinia sclerotiorum</i> defense. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 68, 150-162.	2.7	6
24	Active site gate of M32 carboxypeptidases illuminated by crystal structure and molecular dynamics simulations. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1406-1415.	2.3	8
25	Characterization of SNPs in the dopamine- β -hydroxylase gene providing new insights into its structure-function relationship. <i>Neurogenetics</i> , 2017, 18, 155-168.	1.4	9
26	Phe ²⁸ B ¹⁰ Induces Channel-Forming Cytotoxic Amyloid Fibrillation in Human Neuroglobin, the Brain-Specific Hemoglobin. <i>Biochemistry</i> , 2016, 55, 6832-6847.	2.5	1
27	Role of DAF-21 protein in <i>Caenorhabditis elegans</i> immunity against <i>Proteus mirabilis</i> infection. <i>Journal of Proteomics</i> , 2016, 145, 81-90.	2.4	13
28	Penta- and hexa-coordinate ferric hemoglobins display distinct pH titration profiles measured by Soret peak shifts. <i>Analytical Biochemistry</i> , 2016, 510, 120-128.	2.4	5
29	Structural and Functional Significance of the N- and C-Terminal Appendages in <i>Arabidopsis</i> Truncated Hemoglobin. <i>Biochemistry</i> , 2016, 55, 1724-1740.	2.5	8
30	Molecular dynamics simulations indicate that tyrosineB ¹⁰ limits motions of distal histidine to regulate CO binding in soybean leghemoglobin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 1836-1848.	2.6	0
31	<i>Drosophila glob1</i> expresses dynamically and is required for development and oxidative stress response. <i>Genesis</i> , 2015, 53, 719-737.	1.6	20
32	Heat, Acid and Chemically Induced Unfolding Pathways, Conformational Stability and Structure-Function Relationship in Wheat α -Amylase. <i>PLoS ONE</i> , 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 <i>Synechocystis</i> Hemoglobin. <i>Journal of Biological Chemistry</i> , 2015, 290, 1979-1993.	3.4	16
34	The Structure of the Holo-Acyl Carrier Protein of <i>Leishmania major</i> Displays a Remarkably Different Phosphopantetheinyl Transferase Binding Interface. <i>Biochemistry</i> , 2015, 54, 5632-5645.	2.5	5
35	Characterization of monomeric soybean leghemoglobin using M \ddot{u} ssbauer spectroscopy with a high velocity resolution. <i>Hyperfine Interactions</i> , 2014, 226, 431-438.	0.5	6
36	Proteomic investigation of <i>Vibrio alginolyticus</i> challenged <i>Caenorhabditis elegans</i> revealed regulation of cellular homeostasis proteins and their role in supporting innate immune system. <i>Proteomics</i> , 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. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1944-1956.	2.3	19
38	Thermal, Chemical and pH Induced Denaturation of a Multimeric Î²-Galactosidase Reveals Multiple Unfolding Pathways. <i>PLoS ONE</i> , 2012, 7, e50380.	2.5	95
39	Heme iron state in various oxyhemoglobins probed using MÃ¶ssbauer spectroscopy with a high velocity resolution. <i>BioMetals</i> , 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. <i>PLoS ONE</i> , 2011, 6, e26509.	2.5	28
41	Equilibrium unfolding of kinetically stable serine protease milin: the presence of various active and inactive dimeric intermediates. <i>European Biophysics Journal</i> , 2010, 39, 1385-1396.	2.2	4
42	A kinetically stable plant subtilase with unique peptide mass fingerprints and dimerization properties. <i>Biophysical Chemistry</i> , 2009, 139, 13-23.	2.8	10
43	Role of Phenylalanine B10 in Plant Nonsymbiotic Hemoglobinsâ€™. <i>Biochemistry</i> , 2006, 45, 9735-9745.	2.5	45
44	The Crystal Structure of Synechocystis Hemoglobin with a Covalent Heme Linkage. <i>Journal of Biological Chemistry</i> , 2004, 279, 16535-16542.	3.4	65
45	Tyrosine B10 Inhibits Stabilization of Bound Carbon Monoxide and Oxygen in Soybean Leghemoglobinâ€™. <i>Biochemistry</i> , 2004, 43, 6241-6252.	2.5	31
46	Crystallographic Analysis of Synechocystis Cyanoglobin Reveals the Structural Changes Accompanying Ligand Binding in a Hexacoordinate Hemoglobin. <i>Journal of Molecular Biology</i> , 2004, 341, 1097-1108.	4.2	62
47	Direct Measurement of Equilibrium Constants for High-Affinity Hemoglobins. <i>Biophysical Journal</i> , 2003, 84, 3931-3940.	0.5	68
48	Plants, humans and hemoglobins. <i>Trends in Plant Science</i> , 2003, 8, 387-393.	8.8	145
49	The leghemoglobin proximal heme pocket directs oxygen dissociation and stabilizes bound heme. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 46, 268-277.	2.6	67
50	Distal heme pocket regulation of ligand binding and stability in soybean leghemoglobin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 50, 239-248.	2.6	50
51	Acid and Chemical Induced Conformational Changes of Ervatamin B. Presence of Partially Structured Multiple Intermediates. <i>BMB Reports</i> , 2002, 35, 143-154.	2.4	13
52	Novel Hemoglobin from <i>Synechocystis</i> sp. PCC 6803: Shedding Light on the Structure-Function Relationship and Its Biotechnological Applications. , 0, , .		0