

# Saugata Hazra

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,490  
citations

257450

24  
h-index

345221

36  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Dihydrobenzofuro[3,2- <i>b</i> ]chromenes as Potential 3CL <sup>pro</sup> Inhibitors of SARS-CoV-2: A Molecular Docking and Molecular Dynamics Study. <i>ChemMedChem</i> , 2022, 17, .	3.2	20
2	Differential Binding of Carbapenems with the AdeABC Efflux Pump and Modulation of the Expression of AdeB Linked to Novel Mutations within Two-Component System AdeRS in Carbapenem-Resistant <i>Acinetobacter baumannii</i> . <i>MSystems</i> , 2022, 7, .	3.8	7
3	Understanding structure-based dynamic interactions of antihypertensive peptides extracted from food sources. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 635-649.	3.5	9
4	N-terminal truncation of VC0395_0300 protein from <i>Vibrio cholerae</i> does not lead to loss of diguanylate cyclase activity. <i>Biophysical Chemistry</i> , 2021, 268, 106493.	2.8	0
5	Vitreous substitutes: An overview of the properties, importance, and development. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 1156-1176.	3.4	19
6	Fusion catalyst mediated lignin valorization. , 2021, , 243-266.		0
7	Enzyme-Nanoparticle Corona: A Novel Approach, Their Plausible Applications and Challenges. , 2021, , 175-199.		0
8	Understanding the molecular interactions of inhibitors against Bla1 beta-lactamase towards unraveling the mechanism of antimicrobial resistance. <i>International Journal of Biological Macromolecules</i> , 2021, 177, 337-350.	7.5	4
9	The DNA- and protein-binding properties and cytotoxicity of a new copper(II) hydrazone Schiff base complex. <i>Journal of Coordination Chemistry</i> , 2021, 74, 1482-1504.	2.2	5
10	A comprehensive characterization of novel CYP-BM3 homolog (CYP-BA) from <i>Bacillus aryabhatai</i> . <i>Enzyme and Microbial Technology</i> , 2021, 148, 109806.	3.2	0
11	Effect of lignocellulosic biomass inhibitors on oleaginous yeast cultivation in multistage fermentation system. <i>Bioresource Technology Reports</i> , 2021, 15, 100791.	2.7	5
12	Variations in the SDN Loop of Class A Beta-Lactamases: A Study of the Molecular Mechanism of BlaC ( <i>Mycobacterium tuberculosis</i> ) to Alter the Stability and Catalytic Activity Towards Antibiotic Resistance of MBIs. <i>Frontiers in Microbiology</i> , 2021, 12, 710291.	3.5	3
13	Anti-hypertensive Peptide Predictor: A Machine Learning-Empowered Web Server for Prediction of Food-Derived Peptides with Potential Angiotensin-Converting Enzyme-I Inhibitory Activity. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14995-15004.	5.2	15
14	<i>In silico</i> modeling revealed new insights into the mechanism of action of enzyme 2'-5'-oligoadenylate synthetase in cattle. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, , 1-14.	3.5	2
15	An insight into the complete biophysical and biochemical characterization of novel class A beta-lactamase (Bla1) from <i>Bacillus anthracis</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 145, 510-526.	7.5	11
16	Ribosylation induced structural changes in Bovine Serum Albumin: understanding high dietary sugar induced protein aggregation and amyloid formation. <i>Heliyon</i> , 2020, 6, e05053.	3.2	12
17	Connecting the dots: Advances in modern metabolomics and its application in yeast system. <i>Biotechnology Advances</i> , 2020, 44, 107616.	11.7	12
18	Characterization of a putative ribosome binding site at the 5' untranslated region of bovine heat shock protein 90. <i>Molecular Biology Reports</i> , 2020, 47, 7061-7071.	2.3	0

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19	Keratinase Biosynthesis from Waste Poultry Feathers for Proteinaceous Stain Removal. ACS Sustainable Chemistry and Engineering, 2020, 8, 17651-17663.	6.7	16
20	Scale-up strategy for yeast single cell oil production for Rhodotorula mucilagenosa IIP32 from corn cob derived pentosan. Bioresource Technology, 2020, 309, 123329.	9.6	32
21	Effect of utilization of crude glycerol as substrate on fatty acid composition of an oleaginous yeast Rhodotorula mucilagenosa IIP32: Assessment of nutritional indices. Bioresource Technology, 2020, 309, 123330.	9.6	33
22	Renewable Hydrocarbon from Biomass: Thermo-Chemical, Chemical and Biochemical Perspectives. , 2020, , 147-158.		1
23	Production of Biodegradable Polymers (PHAs) by Soil Microbes Utilizing Waste Materials as Carbon Source. , 2020, , 237-246.		1
24	Converting Lignocellulosic Pentosan-Derived Yeast Single Cell Oil into Aromatics: Biomass to Bio-BTX. ACS Sustainable Chemistry and Engineering, 2019, 7, 13437-13445.	6.7	19
25	Apelin protects against abdominal aortic aneurysm and the therapeutic role of neutral endopeptidase resistant apelin analogs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13006-13015.	7.1	39
26	Overproduction of single cell oil from xylose rich sugarcane bagasse hydrolysate by an engineered oleaginous yeast Rhodotorula mucilagenosa IIP32. Fuel, 2019, 254, 115653.	6.4	17
27	The basics of epithelial-mesenchymal transition (EMT): A study from a structure, dynamics, and functional perspective. Journal of Cellular Physiology, 2019, 234, 14535-14555.	4.1	159
28	Database on spermatozoa transcriptogram of catagorised Frieswal crossbred (Holstein Friesian X) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	15
29	Insights into the role of amino acid oxidase mutations in amyotrophic lateral sclerosis. Journal of Cellular Biochemistry, 2019, 120, 2180-2197.	2.6	11
30	U32 collagenase from Pseudoalteromonas agarivorans NW4327: Activity, structure, substrate interactions and molecular dynamics simulations. International Journal of Biological Macromolecules, 2019, 124, 635-650.	7.5	13
31	Xylitol Production from Lignocellulosic Pentosans: A Rational Strain Engineering Approach toward a Multiproduct Biorefinery. Journal of Agricultural and Food Chemistry, 2019, 67, 1173-1186.	5.2	27
32	Cadherin profiling for therapeutic interventions in Epithelial Mesenchymal Transition (EMT) and tumorigenesis. Experimental Cell Research, 2018, 368, 137-146.	2.6	76
33	Functional proteomic analysis of crossbred (Holstein Friesian-Sahiwal) bull spermatozoa. Reproduction in Domestic Animals, 2018, 53, 588-608.	1.4	7
34	Understanding the role of structural integrity and differential expression of integrin profiling to identify potential therapeutic targets in breast cancer. Journal of Cellular Physiology, 2018, 233, 168-185.	4.1	19
35	Single Cell Oil from Oleaginous Yeast Grown on Sugarcane Bagasse-Derived Xylose: An Approach toward Novel Biolubricant for Low Friction and Wear. ACS Sustainable Chemistry and Engineering, 2018, 6, 275-283.	6.7	31
36	PI3K-regulated gelsolin activity is a critical determinant of cardiac cytoskeletal remodeling and heart disease. Nature Communications, 2018, 9, 5390.	12.8	52

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37	Identification of differentially expressed microRNAs in Sahiwal ( <i>Bos indicus</i> ) breed of cattle during thermal stress. <i>Cell Stress and Chaperones</i> , 2018, 23, 1019-1032.	2.9	20
38	Putative protein VC0395_0300 from <i>Vibrio cholerae</i> is a diguanylate cyclase with a role in biofilm formation. <i>Microbiological Research</i> , 2017, 202, 61-70.	5.3	15
39	In silico design of PHA synthase and its validation by PHAs producing bacterial isolates. <i>Canadian Journal of Biotechnology</i> , 2017, 1, 50-50.	0.3	0
40	In Silico Designing of an Industrially Sustainable Carbonic Anhydrase Using Molecular Dynamics Simulation. <i>ACS Omega</i> , 2016, 1, 1081-1103.	3.5	36
41	Angiotensin-Converting Enzyme 2 Metabolizes and Partially Inactivates Pyr-Apelin-13 and Apelin-17. <i>Hypertension</i> , 2016, 68, 365-377.	2.7	152
42	Effect of site-directed mutagenesis at the GGEEF domain of the biofilm forming GGEEF protein from <i>Vibrio cholerae</i> . <i>AMB Express</i> , 2016, 6, 2.	3.0	8
43	Inhibiting the $\beta$ -Lactamase of <i>Mycobacterium tuberculosis</i> (Mtb) with Novel Boronic Acid Transition-State Inhibitors (BATSIs). <i>ACS Infectious Diseases</i> , 2015, 1, 234-242.	3.8	30
44	Kinetic and Structural Characterization of the Interaction of 6-Methylidene Penem 2 with the $\beta$ -Lactamase from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2015, 54, 5657-5664.	2.5	20
45	Novel Mutation in Exon 14 of the Sarcomere Gene <i>MYH7</i> in Familial Left Ventricular Noncompaction With Bicuspid Aortic Valve. <i>Circulation: Heart Failure</i> , 2014, 7, 1059-1062.	3.9	27
46	Tebipenem, a New Carbapenem Antibiotic, Is a Slow Substrate That Inhibits the $\beta$ -Lactamase from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2014, 53, 3671-3678.	2.5	33
47	Comparative molecular dynamics simulation studies for determining factors contributing to the thermostability of chemotaxis protein $\alpha$ CheY. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 928-949.	3.5	40
48	Can Inhibitor-Resistant Substitutions in the <i>Mycobacterium tuberculosis</i> $\beta$ -Lactamase BlaC Lead to Clavulanate Resistance?: a Biochemical Rationale for the Use of $\beta$ -Lactamase Inhibitor Combinations. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 6085-6096.	3.2	35
49	Structural, Kinetic and Chemical Mechanism of Isocitrate Dehydrogenase-1 from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2013, 52, 1765-1775.	2.5	28
50	Structure of MurNAc 6-Phosphate Hydrolase (MurQ) from <i>Haemophilus influenzae</i> with a Bound Inhibitor. <i>Biochemistry</i> , 2013, 52, 9358-9366.	2.5	5
51	NXL104 Irreversibly Inhibits the $\beta$ -Lactamase from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2012, 51, 4551-4557.	2.5	64
52	Post-Translational Phosphorylation of Serine 74 of Human Deoxycytidine Kinase Favors the Enzyme Adopting the Open Conformation Making It Competent for Nucleoside Binding and Release. <i>Biochemistry</i> , 2011, 50, 2870-2880.	2.5	34
53	The Sugar Ring of the Nucleoside Is Required for Productive Substrate Positioning in the Active Site of Human Deoxycytidine Kinase (dCK): Implications for the Development of dCK-Activated Acyclic Guanine Analogues. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 5792-5800.	6.4	8
54	Structural and Kinetic Characterization of Human Deoxycytidine Kinase Variants Able To Phosphorylate 5-Substituted Deoxycytidine and Thymidine Analogues. <i>Biochemistry</i> , 2010, 49, 6784-6790.	2.5	35

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55	Extending Thymidine Kinase Activity to the Catalytic Repertoire of Human Deoxycytidine Kinase. <i>Biochemistry</i> , 2009, 48, 1256-1263.	2.5	34
56	Mimicking phosphorylation of Ser <sup>74</sup> on human deoxycytidine kinase selectively increases catalytic activity for dC and dC analogues. <i>FEBS Letters</i> , 2008, 582, 720-724.	2.8	27
57	Structural Basis for Substrate Promiscuity of dCK. <i>Journal of Molecular Biology</i> , 2008, 378, 607-621.	4.2	40
58	Elucidation of Different Binding Modes of Purine Nucleosides to Human Deoxycytidine Kinase. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 4219-4225.	6.4	16
59	Nonenantioselectivity Property of Human Deoxycytidine Kinase Explained by Structures of the Enzyme in Complex with l- and d-Nucleosides. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 3004-3014.	6.4	42
60	Structural basis for activation of the therapeutic L-nucleoside analogs 3TC and troxacitabine by human deoxycytidine kinase. <i>Nucleic Acids Research</i> , 2006, 35, 186-192.	14.5	45