

# 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	The basics of epithelialâ€mesenchymal transition (EMT): A study from a structure, dynamics, and functional perspective. <i>Journal of Cellular Physiology</i> , 2019, 234, 14535-14555.	4.1	159
2	Angiotensin-Converting Enzyme 2 Metabolizes and Partially Inactivates Pyr-Apelin-13 and Apelin-17. <i>Hypertension</i> , 2016, 68, 365-377.	2.7	152
3	Cadherin profiling for therapeutic interventions in Epithelial Mesenchymal Transition (EMT) and tumorigenesis. <i>Experimental Cell Research</i> , 2018, 368, 137-146.	2.6	76
4	NXL104 Irreversibly Inhibits the Î²-Lactamase from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2012, 51, 4551-4557.	2.5	64
5	PI3KÎ±-regulated gelsolin activity is a critical determinant of cardiac cytoskeletal remodeling and heart disease. <i>Nature Communications</i> , 2018, 9, 5390.	12.8	52
6	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
7	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
8	Structural Basis for Substrate Promiscuity of dCK. <i>Journal of Molecular Biology</i> , 2008, 378, 607-621.	4.2	40
9	Comparative molecular dynamics simulation studies for determining factors contributing to the thermostability of chemotaxis protein CheY. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 928-949.	3.5	40
10	Apelin protects against abdominal aortic aneurysm and the therapeutic role of neutral endopeptidase resistant apelin analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13006-13015.	7.1	39
11	In Silico Designing of an Industrially Sustainable Carbonic Anhydrase Using Molecular Dynamics Simulation. <i>ACS Omega</i> , 2016, 1, 1081-1103.	3.5	36
12	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
13	Can Inhibitor-Resistant Substitutions in the <i>Mycobacterium tuberculosis</i> Î²-Lactamase BlaC Lead to Clavulanate Resistance?: a Biochemical Rationale for the Use of Î²-Lactamase Inhibitor Combinations. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 6085-6096.	3.2	35
14	Extending Thymidine Kinase Activity to the Catalytic Repertoire of Human Deoxycytidine Kinase. <i>Biochemistry</i> , 2009, 48, 1256-1263.	2.5	34
15	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
16	Tebipenem, a New Carbapenem Antibiotic, Is a Slow Substrate That Inhibits the Î²-Lactamase from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2014, 53, 3671-3678.	2.5	33
17	Effect of utilization of crude glycerol as substrate on fatty acid composition of an oleaginous yeast <i>Rhodotorula mucilagenosa</i> IIP132: Assessment of nutritional indices. <i>Bioresource Technology</i> , 2020, 309, 123330.	9.6	33
18	Scale-up strategy for yeast single cell oil production for <i>Rhodotorula mucilagenosa</i> IIP132 from corn cob derived pentosan. <i>Bioresource Technology</i> , 2020, 309, 123329.	9.6	32

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19	Single Cell Oil from Oleaginous Yeast Grown on Sugarcane Bagasse-Derived Xylose: An Approach toward Novel Biolubricant for Low Friction and Wear. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 275-283.	6.7	31
20	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
21	Structural, Kinetic and Chemical Mechanism of Isocitrate Dehydrogenase-1 from <i>Mycobacterium tuberculosis</i> . <i>Biochemistry</i> , 2013, 52, 1765-1775.	2.5	28
22	Mimicking phosphorylation of Ser74 on human deoxycytidine kinase selectively increases catalytic activity for dC and dC analogues. <i>FEBS Letters</i> , 2008, 582, 720-724.	2.8	27
23	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
24	Xylitol Production from Lignocellulosic Pentosans: A Rational Strain Engineering Approach toward a Multiproduct Biorefinery. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 1173-1186.	5.2	27
25	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
26	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
27	Synthesis of Dihydrobenzofuro[3,2-b]chromenes as Potential 3CLpro Inhibitors of SARS-CoV-2: A Molecular Docking and Molecular Dynamics Study. <i>ChemMedChem</i> , 2022, 17, .	3.2	20
28	Understanding the role of structural integrity and differential expression of integrin profiling to identify potential therapeutic targets in breast cancer. <i>Journal of Cellular Physiology</i> , 2018, 233, 168-185.	4.1	19
29	Converting Lignocellulosic Pentosan-Derived Yeast Single Cell Oil into Aromatics: Biomass to Bio-BTX. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13437-13445.	6.7	19
30	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
31	Overproduction of single cell oil from xylose rich sugarcane bagasse hydrolysate by an engineered oleaginous yeast <i>Rhodotorula mucilaginosa</i> IIP132. <i>Fuel</i> , 2019, 254, 115653.	6.4	17
32	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
33	Keratinase Biosynthesis from Waste Poultry Feathers for Proteinaceous Stain Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17651-17663.	6.7	16
34	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
35	Database on spermatozoa transcriptogram of catagorised Frieswal crossbred (Holstein Friesian X) Tj ETQq1 1 0.784314 rgBT/Overlock	2.1	15
36	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

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37	U32 collagenase from <i>Pseudoalteromonas agarivorans</i> NW4327: Activity, structure, substrate interactions and molecular dynamics simulations. <i>International Journal of Biological Macromolecules</i> , 2019, 124, 635-650.	7.5	13
38	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
39	Connecting the dots: Advances in modern metabolomics and its application in yeast system. <i>Biotechnology Advances</i> , 2020, 44, 107616.	11.7	12
40	Insights into the role of amino acid oxidase mutations in amyotrophic lateral sclerosis. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 2180-2197.	2.6	11
41	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
42	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
43	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
44	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
45	Functional proteomic analysis of crossbred (Holstein Friesian—Sahiwal) bull spermatozoa. <i>Reproduction in Domestic Animals</i> , 2018, 53, 588-608.	1.4	7
46	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
47	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
48	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
49	Effect of lignocellulosic biomass inhibitors on oleaginous yeast cultivation in multistage fermentation system. <i>Bioresource Technology Reports</i> , 2021, 15, 100791.	2.7	5
50	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
51	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
52	<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
53	Renewable Hydrocarbon from Biomass: Thermo-Chemical, Chemical and Biochemical Perspectives. , 2020, , 147-158.		1
54	Production of Biodegradable Polymers (PHAs) by Soil Microbes Utilizing Waste Materials as Carbon Source. , 2020, , 237-246.		1

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55	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
56	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
57	Fusion catalyst mediated lignin valorization. , 2021, , 243-266.		0
58	Enzyme-Nanoparticle Corona: A Novel Approach, Their Plausible Applications and Challenges. , 2021, , 175-199.		0
59	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
60	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