Ruchi Anand

List of Publications by Year
in descending order

45	1,162	471061	395343
papers	citations	17	33
		h-index	g-index

48	48	48	1682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Basis for DNA Recognition by FoxO1 and ItsÂRegulation by Posttranslational Modification. Structure, 2008, 16, 1407-1416.	1.6	172
2	Structure of Oxalate Decarboxylase fromBacillus subtilisat 1.75 Ã... Resolutionâ€,â€¡. Biochemistry, 2002, 41, 7659-7669.	1.2	144
3	Structure and Mechanism of Lysine-specific Demethylase Enzymes. Journal of Biological Chemistry, 2007, 282, 35425-35429.	1.6	114
4	Toward the Development of a Potent and Selective Organoruthenium Mammalian Sterile 20 Kinase Inhibitor. Journal of Medicinal Chemistry, 2009, 52, 1602-1611.	2.9	74
5	Domain Organization ofSalmonella typhimuriumFormylglycinamide Ribonucleotide Amidotransferase Revealed by X-ray Crystallographyâ€,â€¡. Biochemistry, 2004, 43, 10328-10342.	1.2	59
6	Structural and functional basis of transcriptional regulation by TetR family protein CprB from S. coelicolor A3(2). Nucleic Acids Research, 2014, 42, 10122-10133.	6.5	49
7	Designer Gene Therapy Using an Escherichia coli Purine Nucleoside Phosphorylase/Prodrug System. Chemistry and Biology, 2003, 10, 1173-1181.	6.2	43
8	Structures of Purine 2â€˜-Deoxyribosyltransferase, Substrate Complexes, and the Ribosylated Enzyme Intermediate at 2.0 Ã... Resolutionâ€,â€¡. Biochemistry, 2004, 43, 2384-2393.	1.2	42
9	Structural Basis of Selective Aromatic Pollutant Sensing by the Effector Binding Domain of MopR, an NtrC Family Transcriptional Regulator. ACS Chemical Biology, 2016, 11, 2357-2365.	1.6	35
10	The Formylglycinamide Ribonucleotide Amidotransferase Complex fromBacillus subtilis:Â Metabolite-Mediated Complex Formationâ€. Biochemistry, 2004, 43, 10314-10327.	1.2	29
11	Design of Protein-Based Biosensors for Selective Detection of Benzene Groups of Pollutants. ACS Sensors, 2018, 3, 1632-1638.	4.0	27
12	A Model for theBacillus subtilisFormylglycinamide Ribonucleotide Amidotransferase Multiprotein Complexâ€,â€¡. Biochemistry, 2004, 43, 10343-10352.	1.2	26
13	Complexed Structures of Formylglycinamide Ribonucleotide Amidotransferase from Thermotoga maritima Describe a Novel ATP Binding Protein Superfamily,. Biochemistry, 2006, 45, 14880-14895.	1.2	26
14	Rassf Proteins as Modulators of Mst1 Kinase Activity. Scientific Reports, 2017, 7, 45020.	1.6	26
15	Tunable Multiplexed Whole-Cell Biosensors as Environmental Diagnostics for ppb-Level Detection of Aromatic Pollutants. ACS Sensors, 2021, 6, 1933-1939.	4.0	26
16	Structure Guided Design of Protein Biosensors for Phenolic Pollutants. ACS Sensors, 2017, 2, 411-418.	4.0	25
17	Importance of Hydrophobic Cavities in Allosteric Regulation of Formylglycinamide Synthetase: Insight from Xenon Trapping and Statistical Coupling Analysis. PLoS ONE, 2013, 8, e77781.	1.1	20
18	Fluorescence Quenching Studies of Î³-Butyrolactone Binding Protein (CprB) from Streptomyces coelicolor A3(2). Journal of Physical Chemistry B, 2014, 118, 10035-10042.	1.2	18

#	Article	IF	Citations
19	Deciphering Determinants in Ribosomal Methyltransferases That Confer Antimicrobial Resistance. Journal of the American Chemical Society, 2019, 141, 1425-1429.	6.6	18
20	Design of Ultrasensitive Protein Biosensor Strips for Selective Detection of Aromatic Contaminants in Environmental Wastewater. Analytical Chemistry, 2018, 90, 8960-8968.	3.2	17
21	Structural Basis of the Substrate Specificity of Cytidine Deaminase Superfamily Guanine Deaminase. Biochemistry, 2013, 52, 8106-8114.	1.2	14
22	TetR Regulators: A Structural and Functional Perspective. Journal of the Indian Institute of Science, 2017, 97, 245-259.	0.9	13
23	Harnessing the Potential of Biological Recognition Elements for Water Pollution Monitoring. ACS Sensors, 2022, 7, 704-715.	4.0	13
24	Functional insights into the mode of DNA and ligand binding of the TetR family regulator TylP from Streptomyces fradiae. Journal of Biological Chemistry, 2017, 292, 15301-15311.	1.6	12
25	Identification of Function and Mechanistic Insights of Guanine Deaminase from Nitrosomonas europaea: Role of the C-Terminal Loop in Catalysis. Biochemistry, 2013, 52, 3512-3522.	1.2	11
26	Determination of the Formylglycinamide Ribonucleotide Amidotransferase Ammonia Pathway by Combining 3D-RISM Theory with Experiment. ACS Chemical Biology, 2015, 10, 698-704.	1.6	11
27	Structural and dynamics studies of the TetR family protein, CprB from Streptomyces coelicolor in complex with its biological operator sequence. Journal of Structural Biology, 2017, 198, 134-146.	1.3	11
28	Nucleobase deaminases: a potential enzyme system for new therapies. RSC Advances, 2018, 8, 23567-23577.	1.7	10
29	Role of allosteric switches and adaptor domains in long-distance cross-talk and transient tunnel formation. Science Advances, 2020, 6, eaay7919.	4.7	10
30	Structural basis for differentiation between two classes of thiolase: Degradative vs biosynthetic thiolase. Journal of Structural Biology: X, 2020, 4, 100018.	0.7	8
31	Formylglycinamide ribonucleotide amidotransferase fromSalmonella typhimurium: role of ATP complexation and the glutaminase domain in catalytic coupling. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 627-636.	2.5	7
32	The Coenzyme A Level Modulator Hopantenate (HoPan) Inhibits Phosphopantotenoylcysteine Synthetase Activity. ACS Chemical Biology, 2021, 16, 2401-2414.	1.6	7
33	Selective Deamination of Mutagens by a Mycobacterial Enzyme. Journal of the American Chemical Society, 2017, 139, 10762-10768.	6.6	5
34	Mechanism of Coordinated Gating and Signal Transduction in Purine Biosynthetic Enzyme Formylglycinamidine Synthetase. ACS Catalysis, 2022, 12, 1930-1944.	5.5	5
35	Site-Specific Fluorescence Dynamics To Probe Polar Arrest by Fob1 in Replication Fork Barrier Sequences. ACS Omega, 2017, 2, 7389-7399.	1.6	4
36	Insights into the Dual Shuttle Catalytic Mechanism of Guanine Deaminase. Journal of Physical Chemistry B, 2021, 125, 8814-8826.	1.2	4

#	Article	IF	Citations
37	A combinatorial approach involving E. coli cytosine deaminase and 5-fluorocytosine-nanoparticles as an enzyme-prodrug therapeutic method for highly substrate selective in situ generation of 5-fluorouracil. Journal of Drug Delivery Science and Technology, 2020, 58, 101799.	1.4	4
38	Tunnel Architectures in Enzyme Systems that Transport Gaseous Substrates. ACS Omega, 2021, 6, 33274-33283.	1.6	4
39	Identification of allosteric hotspots regulating the ribosomal RNA binding by antibiotic resistance-conferring Erm methyltransferases. Journal of Biological Chemistry, 2022, 298, 102208.	1.6	4
40	Mode of DNA binding with Î³-butyrolactone receptor protein CprB from Streptomyces coelicolor revealed by site-specific fluorescence dynamics. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 2283-2292.	1.1	3
41	Deciphering protein microenvironment by using a cysteine specific switch-ON fluorescent probe. Organic and Biomolecular Chemistry, 2021, 19, 5161-5168.	1.5	3
42	Structure guided mutagenesis reveals the substrate determinants of guanine deaminase. Journal of Structural Biology, 2021, 213, 107747.	1.3	3
43	Decoding the Mechanism of Specific RNA Targeting by Ribosomal Methyltransferases. ACS Chemical Biology, 2022, 17, 829-839.	1.6	3
44	Fluorescence Quenching Studies of Î³-Butyrolactone-Binding Protein (CprB) from Streptomyces coelicolor A3(2). Methods in Molecular Biology, 2018, 1673, 131-143.	0.4	1
45	Use of 6â€Methylisoxanthopterin, a Fluorescent Guanine Analog, to Probe Fob1â€Mediated Dynamics at the Stalling Fork Barrier DNA Sequences. Chemistry - an Asian Journal, 2019, 14, 4760-4766.	1.7	1