

Jungwook Kim

List of Publications by Year in descending order

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26
papers

806
citations

516710

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27
docs citations

27
times ranked

1172
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Strategies for Functional Annotation and Metabolism Discovery: Targeted Screening of Solute Binding Proteins and Unbiased Panning of Metabolomes. <i>Biochemistry</i> , 2015, 54, 909-931.	2.5	95
2	Structure-guided discovery of the metabolite carboxy-SAM that modulates tRNA function. <i>Nature</i> , 2013, 498, 123-126.	27.8	84
3	Large-Scale Determination of Sequence, Structure, and Function Relationships in Cytosolic Glutathione Transferases across the Biosphere. <i>PLoS Biology</i> , 2014, 12, e1001843.	5.6	79
4	Structural and Kinetic Characterization of <i>Escherichia coli</i> TadA, the Wobble-Specific tRNA Deaminase. <i>Biochemistry</i> , 2006, 45, 6407-6416.	2.5	72
5	Structure of Diethyl Phosphate Bound to the Binuclear Metal Center of Phosphotriesterase. <i>Biochemistry</i> , 2008, 47, 9497-9504.	2.5	67
6	The Gate That Governs Sulfotransferase Selectivity. <i>Biochemistry</i> , 2013, 52, 415-424.	2.5	64
7	The catalytic mechanism of galactose mutarotase. <i>Protein Science</i> , 2003, 12, 1051-1059.	7.6	34
8	Structural and Kinetic Studies of Sugar Binding to Galactose Mutarotase from <i>Lactococcus lactis</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 45458-45465.	3.4	28
9	Global structures of IgG isotypes expressing identical variable regions. <i>Molecular Immunology</i> , 2013, 56, 588-598.	2.2	28
10	Testing the Sulfotransferase Molecular Pore Hypothesis. <i>Journal of Biological Chemistry</i> , 2013, 288, 8619-8626.	3.4	27
11	Structural Determinants for the Stereoselective Hydrolysis of Chiral Substrates by Phosphotriesterase. <i>Biochemistry</i> , 2010, 49, 7988-7997.	2.5	25
12	Allosteric Control of the Oligomerization of Carbamoyl Phosphate Synthetase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2001, 40, 11030-11036.	2.5	24
13	Perforation of the Tunnel Wall in Carbamoyl Phosphate Synthetase Derails the Passage of Ammonia between Sequential Active Sites. <i>Biochemistry</i> , 2004, 43, 5334-5340.	2.5	23
14	Determinants of the CmoB carboxymethyl transferase utilized for selective tRNA wobble modification. <i>Nucleic Acids Research</i> , 2015, 43, 4602-4613.	14.5	23
15	Long-range allosteric transitions in carbamoyl phosphate synthetase. <i>Protein Science</i> , 2004, 13, 2398-2405.	7.6	19
16	Access to the carbamate tunnel of carbamoyl phosphate synthetase. <i>Archives of Biochemistry and Biophysics</i> , 2004, 425, 33-41.	3.0	19
17	Structural insights into phosphatidylethanolamine formation in bacterial membrane biogenesis. <i>Scientific Reports</i> , 2021, 11, 5785.	3.3	19
18	Structural and biochemical characterization of Rv0187, an O-methyltransferase from <i>Mycobacterium tuberculosis</i> . <i>Scientific Reports</i> , 2019, 9, 8059.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Structure-Guided Discovery of New Deaminase Enzymes. Journal of the American Chemical Society, 2013, 135, 13927-13933.	13.7	16
20	Structural basis for hypermodification of the wobble uridine in tRNA by bifunctional enzyme MnmC. BMC Structural Biology, 2013, 13, 5.	2.3	13
21	Identification of a novel tRNA wobble uridine modifying activity in the biosynthesis of 5-methoxyuridine. Nucleic Acids Research, 2018, 46, 9160-9169.	14.5	13
22	Structural Defects within the Carbamate Tunnel of Carbamoyl Phosphate Synthetase. Biochemistry, 2002, 41, 12575-12581.	2.5	10
23	Structural snapshots of CmoB in various states during wobble uridine modification of tRNA. Biochemical and Biophysical Research Communications, 2021, 534, 604-609.	2.1	2
24	Structural basis for the inhibition of PDK2 by novel ATP- and lipoyl-binding site targeting compounds. Biochemical and Biophysical Research Communications, 2020, 527, 778-784.	2.1	2
25	Structural and functional characterization of TrmM in m ⁶ A modification of bacterial tRNA. Protein Science, 2022, 31, e4319.	7.6	2
26	Unique anticodon loop conformation with the flipped-out wobble nucleotide in the crystal structure of unbound tRNA ^{Val} . Rna, 2021, 27, 1330-1338.	3.5	1