

Beom Sik Kang

List of Publications by Year in descending order

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41
papers

825
citations

567281

15
h-index

526287

27
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41
all docs

41
docs citations

41
times ranked

1488
citing authors

#	ARTICLE	IF	CITATIONS
1	The structural basis for the negative regulation of thioredoxin by thioredoxin-interacting protein. <i>Nature Communications</i> , 2014, 5, 2958.	12.8	114
2	Structural Insight into the Heme-based Redox Sensing by DosS from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 13057-13067.	3.4	91
3	Promiscuous methionyl-tRNA synthetase mediates adaptive mistranslation against oxidative stresses. <i>Journal of Cell Science</i> , 2014, 127, 4234-45.	2.0	77
4	Assembly of Multi-tRNA Synthetase Complex via Heterotetrameric Glutathione Transferase-homology Domains. <i>Journal of Biological Chemistry</i> , 2015, 290, 29313-29328.	3.4	55
5	Premature senescence in human breast cancer and colon cancer cells by tamoxifen-mediated reactive oxygen species generation. <i>Life Sciences</i> , 2014, 97, 116-122.	4.3	46
6	Determination of Three-dimensional Structure and Residues of the Novel Tumor Suppressor AIMP3/p18 Required for the Interaction with ATM. <i>Journal of Biological Chemistry</i> , 2008, 283, 14032-14040.	3.4	40
7	Structural and functional analysis of bacterial flavin-containing monooxygenase reveals its ping-pong-type reaction mechanism. <i>Journal of Structural Biology</i> , 2011, 175, 39-48.	2.8	32
8	Oncogenic Mutation of AIMP2/p38 Inhibits Its Tumor-Suppressive Interaction with Smurf2. <i>Cancer Research</i> , 2016, 76, 3422-3436.	0.9	30
9	Phytochelatin is not a primary factor in determining copper tolerance. <i>Journal of Plant Biology</i> , 2005, 48, 32-38.	2.1	26
10	Stabilization of Cyclin-Dependent Kinase 4 by Methionyl-tRNA Synthetase in p16 ^{INK4a} -Negative Cancer. <i>ACS Pharmacology and Translational Science</i> , 2018, 1, 21-31.	4.9	25
11	Symmetric Assembly of a Decameric Subcomplex in Human Multi-tRNA Synthetase Complex Via Interactions between Glutathione Transferase-Homology Domains and Aspartyl-tRNA Synthetase. <i>Journal of Molecular Biology</i> , 2019, 431, 4475-4496.	4.2	21
12	A novel COCH mutation associated with autosomal dominant nonsyndromic hearing loss disrupts the structural stability of the vWFA2 domain. <i>Journal of Molecular Medicine</i> , 2012, 90, 1321-1331.	3.9	20
13	Leucine-sensing mechanism of leucyl-tRNA synthetase 1 for mTORC1 activation. <i>Cell Reports</i> , 2021, 35, 109031.	6.4	20
14	Blockage of the channel to heme by the E87 side chain in the GAF domain of <i>Mycobacterium tuberculosis</i> DosS confers the unique sensitivity of DosS to oxygen. <i>FEBS Letters</i> , 2011, 585, 1873-1878.	2.8	16
15	Differential Degradation of Bicyclics with Aromatic and Alicyclic Rings by <i>Rhodococcus</i> sp. Strain DK17. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8280-8287.	3.1	16
16	Activation of ATP Binding for the Autophosphorylation of DosS, a <i>Mycobacterium tuberculosis</i> Histidine Kinase Lacking an ATP Lid Motif. <i>Journal of Biological Chemistry</i> , 2013, 288, 12437-12447.	3.4	16
17	Silibinin Ameliorates O-GlcNAcylation and Inflammation in a Mouse Model of Nonalcoholic Steatohepatitis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2165.	4.1	16
18	Benzyl and aryl hydroxylations of m-xylene by o-xylene dioxygenase from <i>Rhodococcus</i> sp. strain DK17. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1841-1847.	3.6	14

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19	Enhanced catalytic site thermal stability of cold-adapted esterase EstK by a W208Y mutation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1076-1082.	2.3	14
20	New staining method using methionyl-tRNA synthetase 1 antibody for brushing cytology of bile duct cancer. <i>Gastrointestinal Endoscopy</i> , 2020, 92, 310-319.e6.	1.0	12
21	Identification of functionally important amino acids in a novel indigo-producing oxygenase from <i>Rhodococcus</i> sp. strain T104. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 417-422.	3.6	11
22	IFT46 plays crucial roles in craniofacial and cilia development. <i>Biochemical and Biophysical Research Communications</i> , 2016, 477, 419-425.	2.1	11
23	NADP ⁺ -dependent cytosolic isocitrate dehydrogenase provides NADPH in the presence of cadmium due to the moderate chelating effect of glutathione. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 849-860.	2.6	10
24	Crystal structure of dihydrodipicolinate synthase from <i>Hahella chejuensis</i> at 1.5 Å... resolution. <i>International Journal of Biological Macromolecules</i> , 2010, 46, 512-516.	7.5	8
25	Structural insight of the role of the <i>Hahella chejuensis</i> HapK protein in prodigiosin biosynthesis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 257-262.	2.6	7
26	Biphenyl hydroxylation enhanced by an engineered <i>o</i> -xylene dioxygenase from <i>Rhodococcus</i> sp. strain DK17. <i>Research in Microbiology</i> , 2011, 162, 724-728.	2.1	7
27	Characterization and engineering of an <i>o</i> -xylene dioxygenase for biocatalytic applications. <i>Bioresource Technology</i> , 2013, 145, 123-127.	9.6	7
28	Involvement of the catalytically important Asp54 residue of <i>Mycobacterium smegmatis</i> DevR in protein-protein interactions between DevR and DevS. <i>FEMS Microbiology Letters</i> , 2013, 343, 26-33.	1.8	7
29	The splicing factor SRSF1 modulates pattern formation by inhibiting transcription of tissue specific genes during embryogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2016, 477, 1011-1016.	2.1	7
30	Structural basis for the dynamics of human methionyl-tRNA synthetase in multi-tRNA synthetase complexes. <i>Nucleic Acids Research</i> , 2021, 49, 6549-6568.	14.5	7
31	Serine 83 in DosR, a response regulator from <i>Mycobacterium tuberculosis</i> , promotes its transition from an activated, phosphorylated state to an inactive, unphosphorylated state. <i>Biochemical and Biophysical Research Communications</i> , 2014, 444, 651-655.	2.1	6
32	Functional Identification of OphR, an IclR Family Transcriptional Regulator Involved in the Regulation of the Phthalate Catabolic Operon in <i>Rhodococcus</i> sp. Strain DK17. <i>Indian Journal of Microbiology</i> , 2015, 55, 313-318.	2.7	6
33	Construction of target-specific virus-like particles for the delivery of algicidal compounds to harmful algae. <i>Environmental Microbiology</i> , 2015, 17, 1463-1474.	3.8	6
34	Interaction of sulfate assimilation with nitrate assimilation as a function of nutrient status and enzymatic co-regulation in <i>Brassica juncea</i> roots. <i>Journal of Plant Biology</i> , 2005, 48, 270-275.	2.1	5
35	Loss of Function in Zeaxanthin Epoxidase of <i>Dunaliella tertiolecta</i> Caused by a Single Amino Acid Mutation within the Substrate-Binding Site. <i>Marine Drugs</i> , 2018, 16, 418.	4.6	5
36	Peroxiredoxin I maintains luteal function by regulating unfolded protein response. <i>Reproductive Biology and Endocrinology</i> , 2018, 16, 79.	3.3	5

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37	RGS19 converts iron deprivation stress into a growth-inhibitory signal. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 168-175.	2.1	4
38	Binding Direction-Based Two-Dimensional Flattened Contact Area Computing Algorithm for Protein-Protein Interactions. <i>Molecules</i> , 2017, 22, 1722.	3.8	2
39	The crystal structure of a novel glucosamine-6-phosphate deaminase from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 68, 413-417.	2.6	1
40	An Algorithm for Computing Side Chain Conformational Variations of a Protein Tunnel/Channel. <i>Molecules</i> , 2018, 23, 2459.	3.8	1
41	Structural basis for substrate binding to human pyridoxal 5-phosphate phosphatase/chronophin by a conformational change. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 912-924.	7.5	1