

Dashuang Shi

List of Publications by Year in descending order

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42
papers

1,048
citations

394421

19
h-index

454955

30
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42
all docs

42
docs citations

42
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure of bullfrog M ferritin at 2.8Å resolution: analysis of subunit interactions and the binuclear metal center. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 243-256.	2.6	100
2	Cloning and expression of the human N-acetylglutamate synthase gene. <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 581-586.	2.1	74
3	1.85-Å Resolution Crystal Structure of Human Ornithine Transcarbamoylase Complexed with N-Phosphonacetyl-L-ornithine. <i>Journal of Biological Chemistry</i> , 1998, 273, 34247-34254.	3.4	73
4	Identification, cloning and expression of the mouse N-acetylglutamate synthase gene. <i>Biochemical Journal</i> , 2002, 364, 825-831.	3.7	52
5	Human ornithine transcarbamylase: crystallographic insights into substrate recognition and conformational changes. <i>Biochemical Journal</i> , 2001, 354, 501-509.	3.7	48
6	Acetylornithine Transcarbamylase: a Novel Enzyme in Arginine Biosynthesis. <i>Journal of Bacteriology</i> , 2006, 188, 2974-2982.	2.2	42
7	Mammalian N-acetylglutamate synthase. <i>Molecular Genetics and Metabolism</i> , 2004, 81, 4-11.	1.1	39
8	Crystal Structure of N-Acetylornithine Transcarbamylase from <i>Xanthomonas campestris</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 14366-14369.	3.4	39
9	Human ornithine transcarbamylase: crystallographic insights into substrate recognition and conformational changes. <i>Biochemical Journal</i> , 2001, 354, 501.	3.7	38
10	Crystal structure of human ornithine transcarbamylase complexed with carbamoyl phosphate and L-norvaline at 1.9 Å resolution. , 2000, 39, 271-277.		35
11	Biochemical properties of recombinant human and mouse N-acetylglutamate synthase. <i>Molecular Genetics and Metabolism</i> , 2006, 87, 226-232.	1.1	34
12	The Crystal Structure of N-Acetyl-L-glutamate Synthase from <i>Neisseria gonorrhoeae</i> Provides Insights into Mechanisms of Catalysis and Regulation. <i>Journal of Biological Chemistry</i> , 2008, 283, 7176-7184.	3.4	33
13	A novel bifunctional N-acetylglutamate synthase-kinase from <i>Xanthomonas campestris</i> that is closely related to mammalian N-acetylglutamate synthase. <i>BMC Biochemistry</i> , 2007, 8, 4.	4.4	28
14	Structure and function of <i>Escherichia coli</i> RimK, an ATP-grasp fold, glutamyl ligase enzyme. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1847-1854.	2.6	28
15	Mechanism of Allosteric Inhibition of N-Acetyl-L-glutamate Synthase by L-Arginine. <i>Journal of Biological Chemistry</i> , 2009, 284, 4873-4880.	3.4	27
16	Sources and Fates of Carbamyl Phosphate: A Labile Energy-Rich Molecule with Multiple Facets. <i>Biology</i> , 2018, 7, 34.	2.8	26
17	Lysine carboxylation: unveiling a spontaneous post-translational modification. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 48-57.	2.5	24
18	Crystal Structure of a Transcarbamylase-like Protein from the Anaerobic Bacterium <i>Bacteroides fragilis</i> at 2.0Å Resolution. <i>Journal of Molecular Biology</i> , 2002, 320, 899-908.	4.2	23

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19	Structure and Catalytic Mechanism of a Novel N-Succinyl-L-ornithine Transcarbamylase in Arginine Biosynthesis of <i>Bacteroides fragilis</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 20623-20631.	3.4	22
20	The N-Acetylglutamate Synthase Family: Structures, Function and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2015, 16, 13004-13022.	4.1	21
21	Crystal Structure of the N-Acetyltransferase Domain of Human N-Acetyl-L-Glutamate Synthase in Complex with N-Acetyl-L-Glutamate Provides Insights into Its Catalytic and Regulatory Mechanisms. <i>PLoS ONE</i> , 2013, 8, e70369.	2.5	21
22	Molecular Recognition by Ornithine and Aspartate Transcarbamylases. <i>Accounts of Chemical Research</i> , 1999, 32, 885-894.	15.6	19
23	A single mutation in the active site swaps the substrate specificity of N-acetyl-L-ornithine transcarbamylase and N-succinyl-L-ornithine transcarbamylase. <i>Protein Science</i> , 2007, 16, 1689-1699.	7.6	17
24	From Genome to Structure and Back Again: A Family Portrait of the Transcarbamylases. <i>International Journal of Molecular Sciences</i> , 2015, 16, 18836-18864.	4.1	17
25	Structures of N-acetylornithine transcarbamoylase from <i>Xanthomonas campestris</i> complexed with substrates and substrate analogs imply mechanisms for substrate binding and catalysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 532-542.	2.6	15
26	The <i>ygeW</i> encoded protein from <i>Escherichia coli</i> is a knotted ancestral catabolic transcarbamylase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 2327-2334.	2.6	15
27	A Novel N-Acetylglutamate Synthase Architecture Revealed by the Crystal Structure of the Bifunctional Enzyme from <i>Maricaulis maris</i> . <i>PLoS ONE</i> , 2011, 6, e28825.	2.5	14
28	Triazole-linked transition state analogs as selective inhibitors against <i>V. cholerae</i> sialidase. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5751-5757.	3.0	14
29	<i>Streptococcus pneumoniae</i> Sialidase SpNanB-Catalyzed One-Pot Multienzyme (OPME) Synthesis of 2,7-Anhydro-Sialic Acids as Selective Sialidase Inhibitors. <i>Journal of Organic Chemistry</i> , 2018, 83, 10798-10804.	3.2	14
30	Structure of a novel N-acetyl-L-citrulline deacetylase from <i>Xanthomonas campestris</i> . <i>Biophysical Chemistry</i> , 2007, 126, 86-93.	2.8	13
31	Quantification of Benzoic, Phenylacetic, and Phenylbutyric Acids from Filter-Paper Blood Spots by Gas Chromatography-Mass Spectrometry with Stable Isotope Dilution. <i>Clinical Chemistry</i> , 2001, 47, 351-354.	3.2	12
32	Expression, purification, crystallization and preliminary X-ray crystallographic studies of a novel acetylcitrulline deacetylase from <i>Xanthomonas campestris</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 676-679.	0.7	11
33	Expression, crystallization and preliminary crystallographic studies of a novel bifunctional N-acetylglutamate synthase/kinase from <i>Xanthomonas campestris</i> homologous to vertebrate N-acetylglutamate synthase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1218-1222.	0.7	10
34	Reversible Post-Translational Carboxylation Modulates the Enzymatic Activity of N-Acetyl-L-ornithine Transcarbamylase. <i>Biochemistry</i> , 2010, 49, 6887-6895.	2.5	10
35	Precision medicine in rare disease: Mechanisms of disparate effects of N-carbamyl-L-glutamate on mutant CPS1 enzymes. <i>Molecular Genetics and Metabolism</i> , 2017, 120, 198-206.	1.1	10
36	9-Azido-9-deoxy-2,3-difluorosialic Acid as a Subnanomolar Inhibitor against Bacterial Sialidases. <i>Journal of Organic Chemistry</i> , 2019, 84, 6697-6708.	3.2	10

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37	Structure of N-acetyl-L-glutamate synthase/kinase from <i>Maricaulis maris</i> with the allosteric inhibitor L-arginine bound. <i>Biochemical and Biophysical Research Communications</i> , 2013, 437, 585-590.	2.1	7
38	Crystal structure and biochemical properties of putrescine carbamoyltransferase from <i>Enterococcus faecalis</i> : Assembly, active site, and allosteric regulation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1436-1447.	2.6	4
39	Structure of the complex of <i>Neisseria gonorrhoeae</i> N-acetyl-L-glutamate synthase with a bound bisubstrate analog. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 1253-1258.	2.1	4
40	Structures of the N-acetyltransferase domain of <i>Xylella fastidiosa</i> N-acetyl-L-glutamate synthase/kinase with and without a His tag bound to N-acetyl-L-glutamate. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 86-95.	0.8	3
41	Crystallization and preliminary X-ray crystallographic studies of wild-type human ornithine transcarbamylase and two naturally occurring mutants at position 277. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 719-721.	2.5	2
42	Structural insights into regulation of vertebrate homolog N-acetylglutamate synthase/kinase from <i>Maricaulis maris</i> . <i>FASEB Journal</i> , 2012, 26, 558.1.	0.5	0