

Dashuang Shi

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,048
citations

394421

19
h-index

454955

30
g-index

42
all docs

42
docs citations

42
times ranked

969
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Sources and Fates of Carbamyl Phosphate: A Labile Energy-Rich Molecule with Multiple Facets. <i>Biology</i> , 2018, 7, 34. | 2.8 | 26 |
| 4 | <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 |
| 5 | 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 |
| 6 | The N-Acetylglutamate Synthase Family: Structures, Function and Mechanisms. <i>International Journal of Molecular Sciences</i> , 2015, 16, 13004-13022. | 4.1 | 21 |
| 7 | 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 |
| 8 | 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 |
| 9 | Lysine carboxylation: unveiling a spontaneous post-translational modification. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 48-57. | 2.5 | 24 |
| 10 | Structure and function of <i>Escherichia coli</i> RimK, an ATP-grasp fold, γ -glutamyl ligase enzyme. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1847-1854. | 2.6 | 28 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Reversible Post-Translational Carboxylation Modulates the Enzymatic Activity of N-Acetyl-L-ornithine Transcarbamylase. <i>Biochemistry</i> , 2010, 49, 6887-6895. | 2.5 | 10 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Structure of a novel N-acetyl-citrulline deacetylase from <i>Xanthomonas campestris</i> . <i>Biophysical Chemistry</i> , 2007, 126, 86-93. | 2.8 | 13 |
| 22 | 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 |
| 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 | Biochemical properties of recombinant human and mouse N-acetylglutamate synthase. <i>Molecular Genetics and Metabolism</i> , 2006, 87, 226-232. | 1.1 | 34 |
| 25 | 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 |
| 26 | 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 |
| 27 | Acetylornithine Transcarbamylase: a Novel Enzyme in Arginine Biosynthesis. <i>Journal of Bacteriology</i> , 2006, 188, 2974-2982. | 2.2 | 42 |
| 28 | 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 |
| 29 | Expression, purification, crystallization and preliminary X-ray crystallographic studies of a novel acetyl-citrulline deacetylase from <i>Xanthomonas campestris</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 676-679. | 0.7 | 11 |
| 30 | Crystal Structure of N-Acetylornithine Transcarbamylase from <i>Xanthomonas campestris</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 14366-14369. | 3.4 | 39 |
| 31 | Mammalian N-acetylglutamate synthase. <i>Molecular Genetics and Metabolism</i> , 2004, 81, 4-11. | 1.1 | 39 |
| 32 | Identification, cloning and expression of the mouse N-acetylglutamate synthase gene. <i>Biochemical Journal</i> , 2002, 364, 825-831. | 3.7 | 52 |
| 33 | Cloning and expression of the human N-acetylglutamate synthase gene. <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 581-586. | 2.1 | 74 |
| 34 | Crystal Structure of a Transcarbamylase-like Protein from the Anaerobic Bacterium <i>Bacteroides fragilis</i> at 2.0 Å Resolution. <i>Journal of Molecular Biology</i> , 2002, 320, 899-908. | 4.2 | 23 |
| 35 | 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 |
| 36 | Human ornithine transcarbamylase: crystallographic insights into substrate recognition and conformational changes. <i>Biochemical Journal</i> , 2001, 354, 501-509. | 3.7 | 48 |

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|----|--|------|-----------|
| 37 | 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 |
| 38 | Human ornithine transcarbamylase: crystallographic insights into substrate recognition and conformational changes. <i>Biochemical Journal</i> , 2001, 354, 501. | 3.7 | 38 |
| 39 | Crystal structure of human ornithine transcarbamylase complexed with carbamoyl phosphate and L-norvaline at 1.9 Å resolution. <i>J Biol Chem</i> , 2000, 275, 271-277. | | 35 |
| 40 | Crystal structure of bullfrog M ferritin at 2.8 Å resolution: analysis of subunit interactions and the binuclear metal center. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 243-256. | 2.6 | 100 |
| 41 | Molecular Recognition by Ornithine and Aspartate Transcarbamylases. <i>Accounts of Chemical Research</i> , 1999, 32, 885-894. | 15.6 | 19 |
| 42 | 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 |