

Rachel A North

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

470
citations

840776

11
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

479
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of NanR gene repression and allosteric induction of bacterial sialic acid metabolism. <i>Nature Communications</i> , 2021, 12, 1988.	12.8	16
2	Structures and General Transport Mechanisms by the Major Facilitator Superfamily (MFS). <i>Chemical Reviews</i> , 2021, 121, 5289-5335.	47.7	199
3	Selective Nutrient Transport in Bacteria: Multicomponent Transporter Systems Reign Supreme. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 699222.	3.5	23
4	Synthesis of N-acetylmannosamine-6-phosphate derivatives to investigate the mechanism of N-acetylmannosamine-6-phosphate 2-epimerase. <i>Carbohydrate Research</i> , 2021, 510, 108445.	2.3	2
5	N-acetylmannosamine-6-phosphate 2-epimerase uses a novel substrate-assisted mechanism to catalyze amino sugar epimerization. <i>Journal of Biological Chemistry</i> , 2021, 297, 101113.	3.4	4
6	The basis for non-canonical ROK family function in the N-acetylmannosamine kinase from the pathogen <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 3301-3315.	3.4	13
7	Comparative Molecular Dynamics Simulations Provide Insight Into Antibiotic Interactions: A Case Study Using the Enzyme L,L-Diaminopimelate Aminotransferase (DapL). <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 46.	3.5	1
8	Structure–function analyses of two plant meso-diaminopimelate decarboxylase isoforms reveal that active-site gating provides stereochemical control. <i>Journal of Biological Chemistry</i> , 2019, 294, 8505-8515.	3.4	6
9	Functional and solution structure studies of amino sugar deacetylase and deaminase enzymes from <i>Staphylococcus aureus</i> . <i>FEBS Letters</i> , 2019, 593, 52-66.	2.8	16
10	“Just a spoonful of sugar...” import of sialic acid across bacterial cell membranes. <i>Biophysical Reviews</i> , 2018, 10, 219-227.	3.2	29
11	The Sodium Sialic Acid Symporter From <i>Staphylococcus aureus</i> Has Altered Substrate Specificity. <i>Frontiers in Chemistry</i> , 2018, 6, 233.	3.6	24
12	Crystal structures and kinetic analyses of N-acetylmannosamine-6-phosphate 2-epimerases from <i>Fusobacterium nucleatum</i> and <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 431-440.	0.8	6
13	Substrate-bound outward-open structure of a Na ⁺ -coupled sialic acid symporter reveals a new Na ⁺ site. <i>Nature Communications</i> , 2018, 9, 1753.	12.8	62
14	Crystal structure of N-acetylmannosamine kinase from <i>Fusobacterium nucleatum</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 356-362.	0.8	8
15	Structure and inhibition of N-acetylneuraminatase lyase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>FEBS Letters</i> , 2016, 590, 4414-4428.	2.8	18
16	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of N-acetylmannosamine-6-phosphate 2-epimerase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 650-655.	0.8	8
17	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of N-acetylmannosamine kinase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 643-649.	0.8	5
18	The purification, crystallization and preliminary X-ray diffraction analysis of two isoforms of meso-diaminopimelate decarboxylase from <i>Arabidopsis thaliana</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 663-668.	0.8	2

#	ARTICLE	IF	CITATIONS
19	Cloning, expression, purification, crystallization and preliminary X-ray diffraction studies of N-acetylneuraminidase lyase from methicillin-resistant <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 306-312.	0.7	11
20	Genomic and Biochemical Analysis of the Diaminopimelate and Lysine Biosynthesis Pathway in <i>Verrucomicrobium spinosum</i> : Identification and Partial Characterization of L,L-Diaminopimelate Aminotransferase and UDP-N-Acetylmuramoylalanyl-D-glutamyl-2,6-meso-Diaminopimelate Ligase. <i>Frontiers in Microbiology</i> , 2012, 3, 183.	3.5	14