Rachel A North

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5380/publications.pdf

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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	Structures and General Transport Mechanisms by the Major Facilitator Superfamily (MFS). Chemical Reviews, 2021, 121, 5289-5335.	47.7	199
2	Substrate-bound outward-open structure of a Na+-coupled sialic acid symporter reveals a new Na+ site. Nature Communications, 2018, 9, 1753.	12.8	62
3	â€œJust a spoonful of sugar…â€• import of sialic acid across bacterial cell membranes. Biophysical Reviews, 2018, 10, 219-227.	3.2	29
4	The Sodium Sialic Acid Symporter From Staphylococcus aureus Has Altered Substrate Specificity. Frontiers in Chemistry, 2018, 6, 233.	3.6	24
5	Selective Nutrient Transport in Bacteria: Multicomponent Transporter Systems Reign Supreme. Frontiers in Molecular Biosciences, 2021, 8, 699222.	3.5	23
6	Structure and inhibition of Nâ€•acetylneuraminate lyase from methicillinâ€•resistant Staphylococcus aureus. FEBS Letters, 2016, 590, 4414-4428.	2.8	18
7	Functional and solution structure studies of amino sugar deacetylase and deaminase enzymes from StaphylococcusÂaureus. FEBS Letters, 2019, 593, 52-66.	2.8	16
8	Mechanism of NanR gene repression and allosteric induction of bacterial sialic acid metabolism. Nature Communications, 2021, 12, 1988.	12.8	16
9	Genomic and Biochemical Analysis of the Diaminopimelate and Lysine Biosynthesis Pathway in Verrucomicrobium spinosum: Identification and Partial Characterization of L,L-Diaminopimelate Aminotransferase and UDP-N-Acetylmuramoylalanyl-D-glutamyl-2,6-meso-Diaminopimelate Ligase. Frontiers in Microbiology, 2012, 3, 183.	3.5	14
10	The basis for non-canonical ROK family function in the N-acetylmannosamine kinase from the pathogen Staphylococcus aureus. Journal of Biological Chemistry, 2020, 295, 3301-3315.	3.4	13
11	Cloning, expression, purification, crystallization and preliminary X-ray diffraction studies ofN-acetylneuraminate lyase from methicillin-resistantStaphylococcus aureus. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 306-312.	0.7	11
12	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis ofN-acetylmannosamine-6-phosphate 2-epimerase from methicillin-resistantStaphylococcus aureus. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 650-655.	0.8	8
13	Crystal structure ofN-acetylmannosamine kinase fromFusobacterium nucleatum. Acta Crystallographica Section F, Structural Biology Communications, 2017, 73, 356-362.	0.8	8
14	Crystal structures and kinetic analyses ofN-acetylmannosamine-6-phosphate 2-epimerases fromFusobacterium nucleatumandVibrio cholerae. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 431-440.	0.8	6
15	Structureâ€“function analyses of two plant meso-diaminopimelate decarboxylase isoforms reveal that active-site gating provides stereochemical control. Journal of Biological Chemistry, 2019, 294, 8505-8515.	3.4	6
16	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis ofN-acetylmannosamine kinase from methicillin-resistantStaphylococcus aureus. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 643-649.	0.8	5
17	N-acetylmannosamine-6-phosphate 2-epimerase uses a novel substrate-assisted mechanism to catalyze amino sugar epimerization. Journal of Biological Chemistry, 2021, 297, 101113.	3.4	4
18	The purification, crystallization and preliminary X-ray diffraction analysis of two isoforms ofmeso-diaminopimelate decarboxylase fromArabidopsis thaliana. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 663-668.	0.8	2

#	Article	IF	Citations
19	Synthesis of N-acetylmannosamine-6-phosphate derivatives to investigate the mechanism of N-acetylmannosamine-6-phosphate 2-epimerase. Carbohydrate Research, 2021, 510, 108445.	2.3	2
20	Comparative Molecular Dynamics Simulations Provide Insight Into Antibiotic Interactions: A Case Study Using the Enzyme L,L-Diaminopimelate Aminotransferase (DapL). Frontiers in Molecular Biosciences, 2020, 7, 46.	3.5	1