

David Teze

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

923
citations

471509

17
h-index

501196

28
g-index

34
all docs

34
docs citations

34
times ranked

1300
citing authors

#	ARTICLE	IF	CITATIONS
1	Ten years of CAZypedia: a living encyclopedia of carbohydrate-active enzymes. <i>Glycobiology</i> , 2018, 28, 3-8.	2.5	175
2	Synthesis of Human Milk Oligosaccharides: Protein Engineering Strategies for Improved Enzymatic Transglycosylation. <i>Molecules</i> , 2019, 24, 2033.	3.8	83
3	Semi-rational approach for converting a GH1 α -glycosidase into a α -transglycosidase. <i>Protein Engineering, Design and Selection</i> , 2014, 27, 13-19.	2.1	65
4	Experimental and computational evidence of halogen bonds involving astatine. <i>Nature Chemistry</i> , 2018, 10, 428-434.	13.6	63
5	Advances on the Determination of the Astatine Pourbaix Diagram: Predomination of $\text{AtO}(\text{OH})_2^{\sim}$ over At^{\sim} in Basic Conditions. <i>Chemistry - A European Journal</i> , 2016, 22, 2964-2971.	3.3	46
6	Targeted radionuclide therapy with astatine-211: Oxidative dehalogenation of astatobenzoate conjugates. <i>Scientific Reports</i> , 2017, 7, 2579.	3.3	45
7	O^{\sim} / N^{\sim} / S^{\sim} -Specificity in Glycosyltransferase Catalysis: From Mechanistic Understanding to Engineering. <i>ACS Catalysis</i> , 2021, 11, 1810-1815.	11.2	42
8	Polymeric Iminosugars Improve the Activity of Carbohydrate-Processing Enzymes. <i>Bioconjugate Chemistry</i> , 2015, 26, 766-772.	3.6	40
9	Structural and functional aspects of mannuronic acid-specific PL6 alginate lyase from the human gut microbe <i>Bacteroides cellulosilyticus</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 17915-17930.	3.4	40
10	Natural product C^{\sim} -glycosyltransferases: a scarcely characterised enzymatic activity with biotechnological potential. <i>Natural Product Reports</i> , 2021, 38, 432-443.	10.3	39
11	Conserved Water Molecules in Family 1 Glycosidases: A DXMS and Molecular Dynamics Study. <i>Biochemistry</i> , 2013, 52, 5900-5910.	2.5	34
12	Rational Enzyme Design without Structural Knowledge: A Sequence-Based Approach for Efficient Generation of Transglycosylases. <i>Chemistry - A European Journal</i> , 2021, 27, 10323-10334.	3.3	29
13	^{211}At -labeled agents for alpha-immunotherapy: On the <i>in vivo</i> stability of astatine-agent bonds. <i>European Journal of Medicinal Chemistry</i> , 2016, 116, 156-164.	5.5	28
14	Semi-rational approach for converting a GH36 β -glycosidase into an β -transglycosidase. <i>Glycobiology</i> , 2015, 25, 420-427.	2.5	27
15	A Single Point Mutation Converts GH84 α -GlcNAc Hydrolases into Phosphorylases: Experimental and Theoretical Evidence. <i>Journal of the American Chemical Society</i> , 2020, 142, 2120-2124.	13.7	25
16	Alkoxyamino glycoside acceptors for the regioselective synthesis of oligosaccharides using glycosynthases and transglycosidases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 448-451.	2.2	20
17	A Multifunctional Polysaccharide Utilization Gene Cluster in <i>Colwellia echini</i> Encodes Enzymes for the Complete Degradation of β -Carrageenan, γ -Carrageenan, and Hybrid β / γ -Carrageenan. <i>MSphere</i> , 2020, 5, .	2.9	18
18	The Heaviest Possible Ternary Trihalogen Species, IAtBr^{\sim} , Evidenced in Aqueous Solution: An Experimental Performance Driven by Computations. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15369-15372.	13.8	15

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19	The Catalytic Acidâ€“Base in GH109 Resides in a Conserved GGHGG Loop and Allows for Comparable Î±-Retaining and Î²-Inverting Activity in an <i>N</i> -Acetylgalactosaminidase from <i>Akkermansia muciniphila</i> . <i>ACS Catalysis</i> , 2020, 10, 3809-3819.	11.2	15
20	Computer Simulation to Rationalize â€œRationalâ€•Engineering of Glycoside Hydrolases and Glycosyltransferases. <i>Journal of Physical Chemistry B</i> , 2022, 126, 802-812.	2.6	15
21	Identification and Characterization of a Î²-N-Acetylhexosaminidase with a Biosynthetic Activity from the Marine Bacterium <i>Paraglaciecola hydrolytica</i> S66T. <i>International Journal of Molecular Sciences</i> , 2020, 21, 417.	4.1	12
22	Family 1 Glycosyltransferase UGT706F8 from <i>Zea mays</i> Selectively Catalyzes the Synthesis of Silibinin 7- <i>O</i> -Î²-D-Glucoside. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5078-5083.	6.7	9
23	The Heaviest Possible Ternary Trihalogen Species, IAtBr ⁺ , Evidenced in Aqueous Solution: An Experimental Performance Driven by Computations. <i>Angewandte Chemie</i> , 2016, 128, 15595-15598.	2.0	8
24	Exploring the <i>in Vitro</i> Operating Window of Glycosyltransferase <i>Pt</i> UGT1 from <i>Polygonum tinctorium</i> for a Biocatalytic Route to Indigo Dye. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8497-8506.	6.7	7
25	Characterization of five marine family 29 glycoside hydrolases reveals an Î±-L-fucosidase targeting specifically Fuc(Î±1,4)GlcNAc. <i>Glycobiology</i> , 2022, 32, 529-539.	2.5	7
26	Mechanistic Basis for Understanding the Dual Activities of the Bifunctional <i>Azotobacter vinelandii</i> Mannuronan C-5-Epimerase and Alginate Lyase AlgE7. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0183621.	3.1	6
27	A healthy <i>Bifidobacterium dentium</i> caramel cocktail. <i>Journal of Biological Chemistry</i> , 2022, 298, 101452.	3.4	4
28	Structural, biosynthetic and serological cross-reactive elucidation of capsular polysaccharides from <i>Streptococcus pneumoniae</i> serogroup 28. <i>Carbohydrate Polymers</i> , 2021, 254, 117323.	10.2	2