

Weijun Wang

List of Publications by Year in descending order

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29
papers

665
citations

566801

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docs citations

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times ranked

752
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges Associated With the Formation of Recombinant Protein Inclusion Bodies in <i>Escherichia coli</i> and Strategies to Address Them for Industrial Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 630551.	2.0	94
2	A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. <i>Biotechnology for Biofuels</i> , 2018, 11, 74.	6.2	53
3	Protein-Ligand Empirical Interaction Components for Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1793-1806.	2.5	51
4	Progressive genomic convergence of two <i>Helicobacter pylori</i> strains during mixed infection of a patient with chronic gastritis. <i>Gut</i> , 2015, 64, 554-561.	6.1	47
5	Substrate-Driven Convergence of the Microbial Community in Lignocellulose-Amended Enrichments of Gut Microflora from the Canadian Beaver (<i>Castor canadensis</i>) and North American Moose (<i>Alces</i>)	1.0	16
6	Elucidation of the Molecular Basis for Arabinoxylan-Debranching Activity of a Thermostable Family GH62 α -Arabinofuranosidase from <i>Streptomyces thermoviolaceus</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 5317-5329.	1.4	44
7	Comparison of Two Metal-Dependent Pyruvate Aldolases Related by Convergent Evolution: Substrate Specificity, Kinetic Mechanism, and Substrate Channeling. <i>Biochemistry</i> , 2010, 49, 3774-3782.	1.2	43
8	Purification and Biochemical Characterization of a Pyruvate-Specific Class II Aldolase, Hpal. <i>Biochemistry</i> , 2005, 44, 9447-9455.	1.2	39
9	Characterization of an Aldolase-Dehydrogenase Complex That Exhibits Substrate Channeling in the Polychlorinated Biphenyls Degradation Pathway. <i>Biochemistry</i> , 2009, 48, 6551-6558.	1.2	38
10	Crystal Structure of Reaction Intermediates in Pyruvate Class II Aldolase. <i>Journal of Biological Chemistry</i> , 2012, 287, 36208-36221.	1.6	30
11	Structural and Kinetic Characterization of 4-Hydroxy-4-methyl-2-oxoglutarate/4-Carboxy-4-hydroxy-2-oxoadipate Aldolase, a Protocatechuate Degradation Enzyme Evolutionarily Convergent with the Hpal and DmpG Pyruvate Aldolases. <i>Journal of Biological Chemistry</i> , 2010, 285, 36608-36615.	1.6	28
12	Comparative Metagenomics of Cellulose- and Poplar Hydrolysate-Degrading Microcosms from Gut Microflora of the Canadian Beaver (<i>Castor canadensis</i>) and North American Moose (<i>Alces americanus</i>) after Long-Term Enrichment. <i>Frontiers in Microbiology</i> , 2017, 8, 2504.	1.5	24
13	A processive endoglucanase with multi-substrate specificity is characterized from porcine gut microbiota. <i>Scientific Reports</i> , 2019, 9, 13630.	1.6	20
14	The Ribosome-Binding Mode of Trichothecene Mycotoxins Rationalizes Their Structure-Activity Relationships. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1604.	1.8	19
15	Biochemical and Structural Characterization of a Five-domain GH115 α -Glucuronidase from the Marine Bacterium <i>Saccharophagus degradans</i> 2-40T. <i>Journal of Biological Chemistry</i> , 2016, 291, 14120-14133.	1.6	18
16	Action of a GH115 α -glucuronidase from <i>Amphibacillus xylanus</i> at alkaline condition promotes release of 4-O-methylglucopyranosyluronic acid from glucuronoxylan and arabinoglucuronoxylan. <i>Enzyme and Microbial Technology</i> , 2017, 104, 22-28.	1.6	17
17	Kinetics and regioselectivity of three GH62 α -L-arabinofuranosidases from plant pathogenic fungi. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1070-1078.	1.1	12
18	The role of a conserved histidine residue in a pyruvate-specific Class II aldolase. <i>FEBS Letters</i> , 2008, 582, 3385-3388.	1.3	10

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19	Structural characterization of the family GH115 α -glucuronidase from <i>Amphibacillus xylanus</i> yields insight into its coordinated action with α -arabinofuranosidases. <i>New Biotechnology</i> , 2021, 62, 49-56.	2.4	8
20	Biochemical and Structural Analysis of RraA Proteins To Decipher Their Relationships with 4-Hydroxy-4-methyl-2-oxoglutarate/4-Carboxy-4-hydroxy-2-oxoadipate Aldolases. <i>Biochemistry</i> , 2014, 53, 542-553.	1.2	6
21	Constructing arabinofuranosidases for dual arabinoxylyan debranching activity. <i>Biotechnology and Bioengineering</i> , 2018, 115, 41-49.	1.7	5
22	Metagenomic Discovery and Characterization of Multi-Functional and Monomodular Processive Endoglucanases as Biocatalysts. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5150.	1.3	5
23	PSVIII-12 Comparative characterization of intestinal alkaline phosphatase kinetics in young piglets and human Caco-2 cells. <i>Journal of Animal Science</i> , 2019, 97, 282-283.	0.2	2
24	Biochemical properties of a native α -1,4-mannanase from <i>Aspergillus aculeatus</i> QH1 and partial characterization of its N-glycosylation. <i>Biochemistry and Biophysics Reports</i> , 2021, 26, 100922.	0.7	2
25	PSVIII-5 Determination of true digestibility and the endogenous outputs of magnesium in corn for growing pigs by using the regression analysis technique. <i>Journal of Animal Science</i> , 2019, 97, 285-285.	0.2	1
26	157 Starch and Dry Matter Digestibility Values Are Not Associated with Improved Growth and Feed Efficiency in Weaning Pigs Fed a Therapeutic Multi-antimicrobial-supplemented Diet. <i>Journal of Animal Science</i> , 2021, 99, 85-85.	0.2	1
27	243 Ileal Terminal Starch Hydrolytic Activity Is Increased in Association with Improved Growth and Feed Efficiency in Weaning Pigs Fed a Therapeutic Multi-antimicrobial-supplemented Diet. <i>Journal of Animal Science</i> , 2020, 98, 178-179.	0.2	1
28	Characterization of in vitro stability for two processive endoglucanases as exogenous fibre biocatalysts in pig nutrition. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
29	A Novel Monomodular and Multifunctional Processive α -1,4-Endoglucanase Has Been Identified and Characterized from Porcine Gut Microbiome. <i>FASEB Journal</i> , 2018, 32, 544.9.	0.2	0