Zunxi Huang

List of Publications by Year
in descending order

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Version: 2024-02-01

66 papers	1,262 citations	393982 19 h-index	433756 31 g-index
67 all docs	67 docs citations	67 times ranked	1418 citing authors

#	Article	IF	Citations
1	Isolation of a novel strain of Monoraphidium sp. and characterization of its potential application as biodiesel feedstock. Bioresource Technology, 2012, 121, 256-262.	4.8	122
2	Metagenomic Analysis of the Pygmy Loris Fecal Microbiome Reveals Unique Functional Capacity Related to Metabolism of Aromatic Compounds. PLoS ONE, 2013, 8, e56565.	1.1	82
3	Enhancing lipid productivity by co-cultivation of Chlorella sp. U4341 and Monoraphidium sp. FXY-10. Journal of Bioscience and Bioengineering, 2014, 118, 72-77.	1.1	62
4	Metagenomic analysis of the Rhinopithecus bieti fecal microbiome reveals a broad diversity of bacterial and glycoside hydrolase profiles related to lignocellulose degradation. BMC Genomics, 2015, 16, 174.	1.2	60
5	Improving the thermostability of a fungal GH11 xylanase via site-directed mutagenesis guided by sequence and structural analysis. Biotechnology for Biofuels, 2017, 10, 133.	6.2	51
6	Properties of a Newly Identified Esterase from Bacillus sp. K91 and Its Novel Function in Diisobutyl Phthalate Degradation. PLoS ONE, 2015, 10, e0119216.	1.1	44
7	A large-scale screen reveals genes that mediate electrotaxis in Dictyostelium discoideum. Science Signaling, 2015, 8, ra50.	1.6	39
8	Enzymatic properties of Î²-N-acetylglucosaminidases. Applied Microbiology and Biotechnology, 2018, 102, 93-103.	1.7	35
9	Molecular and Biochemical Characterization of a Novel Xylanase from Massilia sp. RBM26 Isolated from the Feces of Rhinopithecus bieti. Journal of Microbiology and Biotechnology, 2016, 26, 9-19.	0.9	34
10	Heterologous expression and characterization of a malathion-hydrolyzing carboxylesterase from a thermophilic bacterium, Alicyclobacillus tengchongensis. Biotechnology Letters, 2013, 35, 1283-1289.	1.1	30
11	Characterization of two glycoside hydrolase family 36 Î±-galactosidases: Novel transglycosylation activity, leadâ€“zinc tolerance, alkaline and multiple pH optima, and low-temperature activity. Food Chemistry, 2016, 194, 156-166.	4.2	29
12	A novel xylanase with tolerance to ethanol, salt, protease, SDS, heat, and alkali from actinomycete Lechevalieria sp. HJ3. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 965-975.	1.4	25
13	Novel low-temperature-active, salt-tolerant and proteases-resistant endo-1,4-Î²-mannanase from a new Sphingomonas strain. Journal of Bioscience and Bioengineering, 2012, 113, 568-574.	1.1	25
14	Glycoside Hydrolase Family 39 Î²-Xylosidase of Sphingomonas Showing Salt/Ethanol/Trypsin Tolerance, Low-pH/Low-Temperature Activity, and Transxylosylation Activity. Journal of Agricultural and Food Chemistry, 2018, 66, 9465-9472.	2.4	24
15	Characterization of a novel salt-, xylose- and alkali-tolerant GH43 bifunctional Î²-xylosidase/Î±-l-arabinofuranosidase from the gut bacterial genome. Journal of Bioscience and Bioengineering, 2019, 128, 429-437.	1.1	24
16	Characterization of a novel low-temperature-active, alkaline and sucrose-tolerant invertase. Scientific Reports, 2016, 6, 32081.	1.6	22
17	Metagenomic Analysis of the Fecal Microbiomes of Wild Asian Elephants Reveals Microflora and Enzymes that Mainly Digest Hemicellulose. Journal of Microbiology and Biotechnology, 2019, 29, 1255-1265.	0.9	22
18	A Shinella Î²-N-acetylglucosaminidase of glycoside hydrolase family 20 displays novel biochemical and molecular characteristics. Extremophiles, 2017, 21, 699-709.	0.9	21

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19	A novel low-temperature-active exo-inulinase identified based on Molecular-Activity strategy from Sphingobacterium sp. GN25 isolated from feces of Grus nigricollis. Process Biochemistry, 2014, 49, 1656-1663.	1.8	20
20	Characterization of Sphingomonas sp. JB13 exo-inulinase: a novel detergent-, salt-, and protease-tolerant exo-inulinase. Extremophiles, 2015, 19, 383-393.	0.9	20
21	Characterization of a NaCl-tolerant Î²-N-acetylglucosaminidase from Sphingobacterium sp. HWLB1. Extremophiles, 2016, 20, 547-557.	0.9	20
22	Enhancing thermal tolerance of Aspergillus niger PhyA phytase directed by structural comparison and computational simulation. BMC Biotechnology, 2018, 18, 36.	1.7	20
23	Characterization of a Glycoside Hydrolase Family 27 Î±-Galactosidase from Pontibacter Reveals Its Novel Saltâ€“Protease Tolerance and Transglycosylation Activity. Journal of Agricultural and Food Chemistry, 2016, 64, 2315-2324.	2.4	19
24	NaCl-, protease-tolerant and cold-active endoglucanase from Paenibacillus sp. YD236 isolated from the feces of Bos frontalis. SpringerPlus, 2016, 5, 746.	1.2	18
25	Enhancing thermal tolerance of a fungal GH11 xylanase guided by B-factor analysis and multiple sequence alignment. Enzyme and Microbial Technology, 2019, 131, 109422.	1.6	18
26	De novo sequencing and analysis of the termite mushroom (Termitomyces albuminosus) transcriptome to discover putative genes involved in bioactive component biosynthesis. Journal of Bioscience and Bioengineering, 2012, 114, 228-231.	1.1	17
27	A thermo-halo-tolerant and proteinase-resistant endoxylanase from Bacillus sp. HJ14. Folia Microbiologica, 2014, 59, 423-431.	1.1	17
28	Molecular and biochemical characterizations of a new low-temperature active mannanase. Folia Microbiologica, 2015, 60, 483-492.	1.1	17
29	Cold-active and NaCl-tolerant exo-inulinase from a cold-adapted Arthrobacter sp. MN8 and its potential for use in the production of fructose at low temperatures. Journal of Bioscience and Bioengineering, 2015, 119, 267-274.	1.1	17
30	Distinctive molecular and biochemical characteristics of a glycoside hydrolase family 20 Î²-N-acetylglucosaminidase and salt tolerance. BMC Biotechnology, 2017, 17, 37.	1.7	17
31	Glycoside Hydrolase Family 39 Î²-Xylosidases Exhibit Î²-1,2-Xylosidase Activity for Transformation of Notoginsenosides: A New EC Subsubclass. Journal of Agricultural and Food Chemistry, 2019, 67, 3220-3228.	2.4	17
32	Transcriptomic Analysis of Pichia pastoris (Komagataella phaffii) GS115 During Heterologous Protein Production Using a High-Cell-Density Fed-Batch Cultivation Strategy. Frontiers in Microbiology, 2020, 11, 463.	1.5	17
33	Development of a whole-cell biocatalyst for diisobutyl phthalate degradation by functional display of a carboxylesterase on the surface of Escherichia coli. Microbial Cell Factories, 2020, 19, 114.	1.9	16
34	Molecular and Biochemical Characterization of a Novel Intracellular Low-Temperature-Active Xylanase. Journal of Microbiology and Biotechnology, 2012, 22, 501-509.	0.9	16
35	Biochemical and structural properties of a low-temperature-active glycoside hydrolase family 43 Î²-xylosidase: Activity and instability at high neutral salt concentrations. Food Chemistry, 2019, 301, 125266.	4.2	15
36	Cloning, Heterologous Expression, and Characterization of Novel Protease-Resistant Î±-Galactosidase from New Sphingomonas Strain. Journal of Microbiology and Biotechnology, 2012, 22, 1532-1539.	0.9	15

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37	Improving the Thermostability of Rhizopus chinensis Lipase Through Site-Directed Mutagenesis Based on B-Factor Analysis. Frontiers in Microbiology, 2020, 11, 346.	1.5	14
38	Biotechnological Aspects of Salt-Tolerant Xylanases: A Review. Journal of Agricultural and Food Chemistry, 2021, 69, 8610-8624.	2.4	14
39	A novel surfactant-, NaCl-, and protease-tolerant Î²-mannanase from Bacillus sp. HJ14. Folia Microbiologica, 2016, 61, 233-242.	1.1	13
40	Biodegradation of Î»-cyhalothrin through cell surface display of bacterial carboxylesterase. Chemosphere, 2022, 289, 133130.	4.2	13
41	Improving the Thermostability of a Fungal GH11 Xylanase via Fusion of a Submodule (C2) from Hyperthermophilic CBM9_1-2. International Journal of Molecular Sciences, 2022, 23, 463.	1.8	11
42	Characterization of an exo-inulinase fromArthrobacter: A novel NaCl-tolerant exo-inulinase with high molecular mass. Bioengineered, 2015, 6, 99-105.	1.4	10
43	Molecular and Biochemical Characterization of a Novel Multidomain Xylanase from Arthrobacter sp. GN16 Isolated from the Feces of Grus nigricollis. Applied Biochemistry and Biotechnology, 2015, 175, 573-588.	1.4	10
44	Kinetic and thermodynamic characterization of a novel low-temperature-active xylanase fromArthrobactersp. GN16 isolated from the feces ofGrus nigricollis. Bioengineered, 2015, 6, 111-114.	1.4	8
45	Genetic diversity of catechol 1,2-dioxygenase in the fecal microbial metagenome. Journal of Basic Microbiology, 2017, 57, 883-895.	1.8	8
46	Removal of N-terminal tail changes the thermostability of the low-temperature-active exo-inulinase InuAGN25. Bioengineered, 2020, 11, 921-931.	1.4	8
47	Surface charge engineering of Thermomyces lanuginosus lipase improves enzymatic activity and biodiesel synthesis. Biotechnology Letters, 2021, 43, 1403-1411.	1.1	8
48	Transcriptome Analysis of Komagataeibacter europaeus CGMCC 20445 Responses to Different Acidity Levels During Acetic Acid Fermentation. Polish Journal of Microbiology, 2021, 70, 305-313.	0.6	8
49	Identification and Characterization of a New Alkaline SGNH Hydrolase from a Thermophilic Bacterium Bacillus sp. K91. Journal of Microbiology and Biotechnology, 2016, 26, 730-738.	0.9	8
50	Display of a novel carboxylesterase CarCby on Escherichia coli cell surface for carbaryl pesticide bioremediation. Microbial Cell Factories, 2022, 21, .	1.9	7
51	The 340-cavity in neuraminidase provides new opportunities for influenza drug development: A molecular dynamics simulation study. Biochemical and Biophysical Research Communications, 2016, 470, 130-136.	1.0	6
52	Enhanced extracellular expression of Î±-Amylase DL3-4-1 in Bacillus subtilis via systematic screening of optimal signal peptides. Process Biochemistry, 2021, 108, 176-184.	1.8	6
53	A thermostable and alkaline GDSL-motif esterase from Bacillus sp. K91: crystallization and X-ray crystallographic analysis. Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 117-121.	0.4	5
54	Research Article Product Composition Analysis and Process Research of Oligosaccharides Produced from Enzymatic Hydrolysis of High-Concentration Konjac Flour. ACS Omega, 2020, 5, 2480-2487.	1.6	5

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55	Characterization of EstZY: A new acetylesterase with 7-aminocephalosporanic acid deacetylase activity from Alicyclobacillus tengchongensis. International Journal of Biological Macromolecules, 2020, 148, 333-341.	3.6	5
56	Characterization of a family 3 polysaccharide lyase with broad temperature adaptability, thermo-alkali stability, and ethanol tolerance. Biotechnology and Bioprocess Engineering, 2012, 17, 729-738.	1.4	4
57	Improving low-temperature activity and thermostability of exo-inulinase InuAGN25 on the basis of increasing rigidity of the terminus and flexibility of the catalytic domain. Bioengineered, 2020, 11, 1233-1244.	1.4	4
58	Analysis of Saccharification Products of High-Concentration Glutinous Rice Fermentation by Rhizopus nigricans Q3 and Alcoholic Fermentation of Saccharomyces cerevisiae GY-1. ACS Omega, 2021, 6, 8038-8044.	1.6	4
59	Application and Analysis of Rhizopus oryzae Mycelia Extending Characteristic in Solid-state Fermentation for Producing Glucoamylase. Journal of Microbiology and Biotechnology, 2018, 28, 1865-1875.	0.9	4
60	Plasticity of the 340-Loop in Influenza Neuraminidase Offers New Insight for Antiviral Drug Development. International Journal of Molecular Sciences, 2020, 21, 5655.	1.8	3
61	Molecular and Biochemical Characterization of Salt-Tolerant Trehalose-6-Phosphate Hydrolases Identified by Screening and Sequencing Salt-Tolerant Clones From the Metagenomic Library of the Gastrointestinal Tract. Frontiers in Microbiology, 2020, 11, 1466.	1.5	3
62	Improving the low-temperature properties of an exo-inulinase via the deletion of a loop fragment located in its catalytic pocket. Electronic Journal of Biotechnology, 2022, 55, 1-8.	1.2	3
63	Identification and characterization of an acetyl esterase from Paenibacillus sp. XW-6-66 and its novel function in 7-aminocephalosporanic acid deacetylation. Biotechnology Letters, 2019, 41, 1059-1065.	1.1	2
64	Biochemical and Molecular Characteristics of a Novel Hyaluronic Acid Lyase from Citrobacter freundii. Foods, 2022, 11, 1989.	1.9	1
65	Examining the molecular characteristics of glycoside hydrolase family 20 Î²-N-acetylglucosaminidases with high activity. Bioengineered, 2019, 10, 71-77.	1.4	0
66	Deletion of the Loop Linking Two Domains of Exo-Inulinase InuAMN8 Diminished the Enzymatic Thermo-Halo-Alcohol Tolerance. Frontiers in Microbiology, 0, 13, .	1.5	0