Bin Yao

List of Publications by Year
in descending order

160 papers	4,938 citations	71102 41 h-index	161849 54 g-index
165 all docs	165 docs citations	165 times ranked	4157 citing authors

#	Article	IF	Citations
1	Diversity of Beta-Propeller Phytase Genes in the Intestinal Contents of Grass Carp Provides Insight into the Release of Major Phosphorus from Phytate in Nature. Applied and Environmental Microbiology, 2009, 75, 1508-1516.	3.1	99
2	A novel highly acidic Î²-mannanase from the acidophilic fungus Bispora sp. MEY-1: gene cloning and overexpression in Pichia pastoris. Applied Microbiology and Biotechnology, 2009, 82, 453-461.	3.6	97
3	Improved thermal performance of Thermomyces lanuginosus GH11 xylanase by engineering of an N-terminal disulfide bridge. Bioresource Technology, 2012, 112, 275-279.	9.6	96
4	Thermostability Improvement of a Streptomyces Xylanase by Introducing Proline and Glutamic Acid Residues. Applied and Environmental Microbiology, 2014, 80, 2158-2165.	3.1	94
5	A thermophilic and acid stable family-10 xylanase from the acidophilic fungus Bispora sp. MEY-1. Extremophiles, 2009, 13, 849-857.	2.3	91
6	Two xylose-tolerant GH43 bifunctional Î²-xylosidase/Î±-arabinosidases and one GH11 xylanase from Humicola insolens and their synergy in the degradation of xylan. Food Chemistry, 2014, 148, 381-387.	8.2	86
7	Characterization of three novel thermophilic xylanases from Humicola insolens Y1 with application potentials in the brewing industry. Bioresource Technology, 2013, 130, 161-167.	9.6	74
8	Identification of an acidic Î±-amylase from Alicyclobacillus sp. A4 and assessment of its application in the starch industry. Food Chemistry, 2012, 131, 1473-1478.	8.2	73
9	Linking Enzymatic Oxidative Degradation of Lignin to Organics Detoxification. International Journal of Molecular Sciences, 2018, 19, 3373.	4.1	70
10	High-level expression of a truncated 1,3-1,4-Î²-d-glucanase from Fibrobacter succinogenes in Pichia pastoris by optimization of codons and fermentation. Applied Microbiology and Biotechnology, 2008, 78, 95-103.	3.6	69
11	Degradation of Four Major Mycotoxins by Eight Manganese Peroxidases in Presence of a Dicarboxylic Acid. Toxins, 2019, 11, 566.	3.4	67
12	High-yield production of a low-temperature-active polygalacturonase for papaya juice clarification. Food Chemistry, 2013, 141, 2974-2981.	8.2	66
13	Molecular cloning and characterization of the novel acidic xylanase XYLD from Bispora sp. MEY-1 that is homologous to family 30 glycosyl hydrolases. Applied Microbiology and Biotechnology, 2010, 86, 1829-1839.	3.6	65
14	An Î±-galactosidase from an acidophilic Bispora sp. MEY-1 strain acts synergistically with Î²-mannanase. Bioresource Technology, 2010, 101, 8376-8382.	9.6	64
15	<i>Paenibacillus</i> sp. Strain E18 Bifunctional Xylanase-Glucanase with a Single Catalytic Domain. Applied and Environmental Microbiology, 2010, 76, 3620-3624.	3.1	60
16	Proteome changes in the intestinal mucosa of broiler (Gallus gallus) activated by probiotic Enterococcus faecium. Journal of Proteomics, 2013, 91, 226-241.	2.4	58
17	Molecular and biochemical characterization of a novel xylanase from the symbiotic Sphingobacterium sp. TN19. Applied Microbiology and Biotechnology, 2009, 85, 323-333.	3.6	57
18	A thermophilic Î²-mannanase from Neosartorya fischeri P1 with broad pH stability and significant hydrolysis ability of various mannan polymers. Food Chemistry, 2015, 173, 283-289.	8.2	57

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19	Probiotic (Enterococcus faecium) induced responses of the hepatic proteome improves metabolic efficiency of broiler chickens (Gallus gallus). BMC Genomics, 2016, 17, 89.	2.8	57
20	A novel cold-active xylanase gene from the environmental DNA of goat rumen contents: Direct cloning, expression and enzyme characterization. Bioresource Technology, 2011, 102, 3330-3336.	9.6	56
21	Engineering a highly active thermophilic Î²-glucosidase to enhance its pH stability and saccharification performance. Biotechnology for Biofuels, 2016, 9, 147.	6.2	55
22	Degradation of Aflatoxin B1 and Zearalenone by Bacterial and Fungal Laccases in Presence of Structurally Defined Chemicals and Complex Natural Mediators. Toxins, 2019, 11, 609.	3.4	55
23	A novel acidic and low-temperature-active endo-polygalacturonase from Penicillium sp. CGMCC 1669 with potential for application in apple juice clarification. Food Chemistry, 2011, 129, 1369-1375.	8.2	54
24	The N-Terminal GH10 Domain of a Multimodular Protein from Caldicellulosiruptor bescii Is a Versatile Xylanase/Î²-Glucanase That Can Degrade Crystalline Cellulose. Applied and Environmental Microbiology, 2015, 81, 3823-3833.	3.1	53
25	An Acidophilic and Acid-Stable Î²-Mannanase from <i>Phialophora</i> sp. P13 with High Mannan Hydrolysis Activity under Simulated Gastric Conditions. Journal of Agricultural and Food Chemistry, 2010, 58, 3184-3190.	5.2	51
26	Proteome changes underpin improved meat quality and yield of chickens (Gallus gallus) fed the probiotic Enterococcus faecium. BMC Genomics, 2014, 15, 1167.	2.8	50
27	A thermophilic Î±-galactosidase from Neosartorya fischeri P1 with high specific activity, broad substrate specificity and significant hydrolysis ability of soymilk. Bioresource Technology, 2014, 153, 361-364.	9.6	50
28	Gene cloning and expression of a new acidic family 7 endo-Î²-1,3-1,4-glucanase from the acidophilic fungus Bispora sp. MEY-1. Applied Microbiology and Biotechnology, 2010, 85, 1015-1023.	3.6	49
29	A new xylanase from thermoacidophilic Alicyclobacillus sp. A4 with broad-range pH activity and pH stability. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 187-194.	3.0	48
30	The Genome of the Myxosporean Thelohanellus kitauei Shows Adaptations to Nutrient Acquisition within Its Fish Host. Genome Biology and Evolution, 2014, 6, 3182-3198.	2.5	48
31	A xylanase with high pH stability from Streptomyces sp. S27 and its carbohydrate-binding module with/without linker-region-truncated versions. Applied Microbiology and Biotechnology, 2009, 83, 99-107.	3.6	47
32	Gene cloning, expression, and biochemical characterization of an alkali-tolerant Î²-mannanase from <i>Humicola insolens</i> Y1. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 547-555.	3.0	47
33	Construction of a Rapid Feather-Degrading Bacterium by Overexpression of a Highly Efficient Alkaline Keratinase in Its Parent Strain <i>Bacillus amyloliquefaciens</i> K11. Journal of Agricultural and Food Chemistry, 2016, 64, 78-84.	5.2	47
34	A novel bifunctional GH51 exo-Î±-l-arabinofuranosidase/endo-xylanase from Alicyclobacillus sp. A4 with significant biomass-degrading capacity. Biotechnology for Biofuels, 2015, 8, 197.	6.2	46
35	Molecular cloning and characterization of a novel Î±-galactosidase gene from Penicillium sp. F63 CGMCC 1669 and expression in Pichia pastoris. Enzyme and Microbial Technology, 2007, 40, 1373-1380.	3.2	45
36	A novel phytase from Yersinia rohdei with high phytate hydrolysis activity under low pH and strong pepsin conditions. Applied Microbiology and Biotechnology, 2008, 80, 417-26.	3.6	45

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37	Improvement in Thermostability of an Achaetomium sp. Strain Xz8 Endopolygalacturonase via the Optimization of Charge-Charge Interactions. Applied and Environmental Microbiology, 2015, 81, 6938-6944.	3.1	44
38	A thermostable Gloeophyllum trabeum xylanase with potential for the brewing industry. Food Chemistry, 2016, 199, 516-523.	8.2	44
39	Oxidation of a non-phenolic lignin model compound by two Irpex lacteus manganese peroxidases: evidence for implication of carboxylate and radicals. Biotechnology for Biofuels, 2017, 10, 103.	6.2	44
40	A versatile system for fast screening and isolation of Trichoderma reesei cellulase hyperproducers based on DsRed and fluorescence-assisted cell sorting. Biotechnology for Biofuels, 2018, 11, 261.	6.2	44
41	Cloning, expression and characterization of an acidic endo-polygalacturonase from Bispora sp. MEY-1 and its potential application in juice clarification. Process Biochemistry, 2011, 46, 272-277.	3.7	43
42	A novel family 9 Î²-1,3(4)-glucanase from thermoacidophilic Alicyclobacillus sp. A4 with potential applications in the brewing industry. Applied Microbiology and Biotechnology, 2010, 87, 251-259.	3.6	42
43	High-level expression of the Penicillium notatum glucose oxidase gene in Pichia pastoris using codon optimization. Biotechnology Letters, 2012, 34, 507-514.	2.2	41
44	A novel thermophilic endo-Î²-1,4-mannanase from Aspergillus nidulans XZ3: functional roles of carbohydrate-binding module and Thr/Ser-rich linker region. Applied Microbiology and Biotechnology, 2014, 98, 2155-2163.	3.6	41
45	Biochemical characterization of a thermophilic Î²-mannanase from Talaromyces leycettanus JCM12802 with high specific activity. Applied Microbiology and Biotechnology, 2015, 99, 1217-1228.	3.6	41
46	Improving the thermostability and catalytic efficiency of glucose oxidase from Aspergillus niger by molecular evolution. Food Chemistry, 2019, 281, 163-170.	8.2	41
47	<i>N</i> -Glycosylation Improves the Pepsin Resistance of Histidine Acid Phosphatase Phytases by Enhancing Their Stability at Acidic pHs and Reducing Pepsin's Accessibility to Its Cleavage Sites. Applied and Environmental Microbiology, 2016, 82, 1004-1014.	3.1	40
48	A family 5 Î²-mannanase from the thermophilic fungus Thielavia arenaria XZ7 with typical thermophilic enzyme features. Applied Microbiology and Biotechnology, 2013, 97, 8121-8128.	3.6	39
49	High-yield production of a chitinase from Aeromonas veronii B565 as a potential feed supplement for warm-water aquaculture. Applied Microbiology and Biotechnology, 2014, 98, 1651-1662.	3.6	38
50	Revisiting overexpression of a heterologous Î²-glucosidase in Trichoderma reesei: fusion expression of the Neosartorya fischeri Bgl3A to cbh1 enhances the overall as well as individual cellulase activities. Microbial Cell Factories, 2016, 15, 122.	4.0	38
51	Deciphering lignocellulose deconstruction by the white rot fungus Irpex lacteus based on genomic and transcriptomic analyses. Biotechnology for Biofuels, 2018, 11, 58.	6.2	38
52	Acidic Î²-mannanase from Penicillium pinophilum C1: Cloning, characterization and assessment of its potential for animal feed application. Journal of Bioscience and Bioengineering, 2011, 112, 551-557.	2.2	37
53	Overexpressing key component genes of the secretion pathway for enhanced secretion of an Aspergillus niger glucose oxidase in Trichoderma reesei. Enzyme and Microbial Technology, 2017, 106, 83-87.	3.2	37
54	An Acidophilic Î²-Galactosidase from <i>Bispora</i> sp. MEY-1 with High Lactose Hydrolytic Activity under Simulated Gastric Conditions. Journal of Agricultural and Food Chemistry, 2009, 57, 5535-5541.	5.2	36

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55	A novel thermoacidophilic family 10 xylanase from Penicillium pinophilum C1. Process Biochemistry, 2011, 46, 2341-2346.	3.7	35
56	Insights into the roles of non-catalytic residues in the active site of a GH10 xylanase with activity on cellulose. Journal of Biological Chemistry, 2017, 292, 19315-19327.	3.4	35
57	Cloning, expression and characterization of a novel acidic xylanase, XYL11B, from the acidophilic fungus Bispora sp. MEY-1. Enzyme and Microbial Technology, 2009, 45, 126-133.	3.2	34
58	Symbiotic Streptomyces sp. TN119 GH 11 xylanase: a new pH-stable, protease- and SDS-resistant xylanase. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 523-530.	3.0	34
59	New phylogenomic and comparative analyses provide corroborating evidence that Myxozoa is Cnidaria. Molecular Phylogenetics and Evolution, 2014, 81, 10-18.	2.7	34
60	Improvement of the catalytic performance of a hyperthermostable GH10 xylanase from Talaromyces leycettanus JCM12802. Bioresource Technology, 2016, 222, 277-284.	9.6	34
61	A New GH43 Î±-Arabinofuranosidase from Humicola insolens Y1: Biochemical Characterization and Synergistic Action with a Xylanase on Xylan Degradation. Applied Biochemistry and Biotechnology, 2015, 175, 1960-1970.	2.9	33
62	A Thermostable Glucoamylase from Bispora sp. MEY-1 with Stability over a Broad pH Range and Significant Starch Hydrolysis Capacity. PLoS ONE, 2014, 9, e113581.	2.5	32
63	Structural insight into potential cold adaptation mechanism through a psychrophilic glycoside hydrolase family 10 endo-Î²-1,4-xylanase. Journal of Structural Biology, 2016, 193, 206-211.	2.8	32
64	Utility of Thermostable Xylanases of <i>Mycothermus thermophilus</i> in Generating Prebiotic Xylooligosaccharides. Journal of Agricultural and Food Chemistry, 2017, 65, 1139-1145.	5.2	32
65	An acid and highly thermostable xylanase from Phialophora sp. G5. Applied Microbiology and Biotechnology, 2011, 89, 1851-1858.	3.6	31
66	Purification and characterization of a novel protease-resistant Î±-galactosidase from Rhizopus sp. F78 ACCC 30795. Enzyme and Microbial Technology, 2007, 41, 835-841.	3.2	29
67	Improvement of the thermostability and catalytic efficiency of a highly active Î²-glucanase from Talaromyces leycettanus JCM12802 by optimizing residual chargeâ€“charge interactions. Biotechnology for Biofuels, 2016, 9, 124.	6.2	29
68	Molecular Characterization of a Highly-Active Thermophilic Î²-Glucosidase from Neosartorya fischeri P1 and Its Application in the Hydrolysis of Soybean Isoflavone Glycosides. PLoS ONE, 2014, 9, e106785.	2.5	29
69	Distinct Actions by Paenibacillus sp. Strain E18 Î±- <scp>l</scp> -Arabinofuranosidases and Xylanase in Xylan Degradation. Applied and Environmental Microbiology, 2013, 79, 1990-1995.	3.1	28
70	Biochemical characterization of a novel thermophilic Î±-galactosidase from Talaromyces leycettanus JCM12802 with significant transglycosylation activity. Journal of Bioscience and Bioengineering, 2016, 121, 7-12.	2.2	28
71	Two neutral thermostable cellulases from Phialophora sp. G5 act synergistically in the hydrolysis of filter paper. Bioresource Technology, 2012, 121, 404-410.	9.6	27
72	High-level expression of a novel <i>Penicillium</i> endo-1,3(4)-Î²-<scp>d</scp>-glucanase with high specific activity in <i>Pichia pastoris</i>. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 869-876.	3.0	27

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73	Biochemical characterization of an acidophilic Î²-mannanase from Gloeophyllum trabeum CBS900.73 with significant transglycosylation activity and feed digesting ability. Food Chemistry, 2016, 197, 474-481.	8.2	27
74	Enzymatic Degradation of Multiple Major Mycotoxins by Dye-Decolorizing Peroxidase from Bacillus subtilis. Toxins, 2021, 13, 429.	3.4	27
75	Improvement of thermostability and catalytic efficiency of glucoamylase from Talaromyces leycettanus JCM12802 via site-directed mutagenesis to enhance industrial saccharification applications. Biotechnology for Biofuels, 2021, 14, 202.	6.2	27
76	A highly pH-stable phytase from Yersinia kristeensenii: Cloning, expression, and characterization. Enzyme and Microbial Technology, 2008, 42, 499-505.	3.2	26
77	Biochemical characterization of three distinct polygalacturonases from Neosartorya fischeri P1. Food Chemistry, 2015, 188, 569-575.	8.2	26
78	Thermostability improvement of a Talaromyces leycettanus xylanase by rational protein engineering. Scientific Reports, 2017, 7, 15287.	3.3	26
79	A highly glucose-tolerant GH1 Î²-glucosidase with greater conversion rate of soybean isoflavones in monogastric animals. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 369-378.	3.0	26
80	Engineering of a Bacillus amyloliquefaciens Strain with High Neutral Protease Producing Capacity and Optimization of Its Fermentation Conditions. PLoS ONE, 2016, 11, e0146373.	2.5	26
81	Extremely Acidic Î²-1,4-Glucanase, CelA4, from Thermoacidophilic Alicyclobacillus sp. A4 with High Protease Resistance and Potential as a Pig Feed Additive. Journal of Agricultural and Food Chemistry, 2010, 58, 1970-1975.	5.2	25
82	A Novel Glycoside Hydrolase Family 113 Endo-Î²-1,4-Mannanase from Alicyclobacillus sp. Strain A4 and Insight into the Substrate Recognition and Catalytic Mechanism of This Family. Applied and Environmental Microbiology, 2016, 82, 2718-2727.	3.1	25
83	Functional diversity of family 3 Î²-glucosidases from thermophilic cellulolytic fungus Humicola insolens Y1. Scientific Reports, 2016, 6, 27062.	3.3	24
84	Engineering of <i>Yersinia</i> Phytases to Improve Pepsin and Trypsin Resistance and Thermostability and Application Potential in the Food and Feed Industry. Journal of Agricultural and Food Chemistry, 2017, 65, 7337-7344.	5.2	24
85	Improving the catalytic performance of Proteinase K from Parengyodontium album for use in feather degradation. International Journal of Biological Macromolecules, 2020, 154, 1586-1595.	7.5	24
86	Molecular Cloning and Expression of a Novel Protease-resistant GH-36 Î±-Galactosidase from Rhizopus sp. F78 ACCC 30795. Journal of Microbiology and Biotechnology, 2009, 19, 1295-300.	2.1	24
87	Two Family 11 Xylanases from Achaetomium sp. Xz-8 with High Catalytic Efficiency and Application Potentials in the Brewing Industry. Journal of Agricultural and Food Chemistry, 2013, 61, 6880-6889.	5.2	23
88	Isolation of a Novel Cold-Active Family 11 Xylanase from the Filamentous Fungus Bispora antennata and Deletion of its N-Terminal Amino Acids on Thermostability. Applied Biochemistry and Biotechnology, 2015, 175, 925-936.	2.9	23
89	Exploiting the activityâ€“stability trade-off of glucose oxidase from Aspergillus niger using a simple approach to calculate thermostability of mutants. Food Chemistry, 2021, 342, 128270.	8.2	23
90	A novel thermophilic xylanase from Achaetomium sp. Xz-8 with high catalytic efficiency and application potentials in the brewing and other industries. Process Biochemistry, 2013, 48, 1879-1885.	3.7	22

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91	Molecular Characterization of a Thermophilic Endo-polygalacturonase from <i>Thielavia arenaria</i> XZ7 with High Catalytic Efficiency and Application Potential in the Food and Feed Industries. Journal of Agricultural and Food Chemistry, 2014, 62, 12686-12694.	5.2	22
92	A novel bifunctional pectinase from Penicillium oxalicum SX6 with separate pectin methylesterase and polygalacturonase catalytic domains. Applied Microbiology and Biotechnology, 2014, 98, 5019-5028.	3.6	21
93	New Insights into the Role of T3 Loop in Determining Catalytic Efficiency of GH28 Endo-Polygalacturonases. PLoS ONE, 2015, 10, e0135413.	2.5	21
94	Insight into the functional roles of Glu175 in the hyperthermostable xylanase XYL10C-Î"N through structural analysis and site-saturation mutagenesis. Biotechnology for Biofuels, 2018, 11, 159.	6.2	21
95	Characterization, stability improvement, and bread baking applications of a novel cold-adapted glucose oxidase from Cladosporium neopsychrotolerans SL16. Food Chemistry, 2020, 310, 125970.	8.2	21
96	Biochemical Characterization and Mutational Analysis of a Lactone Hydrolase from <i>Phialophora americana</i>. Journal of Agricultural and Food Chemistry, 2020, 68, 2570-2577.	5.2	21
97	Efficient Degradation of Aflatoxin B1 and Zearalenone by Laccase-like Multicopper Oxidase from Streptomyces thermocarboxydus in the Presence of Mediators. Toxins, 2021, 13, 754.	3.4	21
98	A protease-resistant exo-polygalacturonase from Klebsiella sp. Y1 with good activity and stability over a wide pH range in the digestive tract. Bioresource Technology, 2012, 123, 171-176.	9.6	20
99	A highly-active endo-1,3-1,4-Î²-glucanase from thermophilic Talaromyces emersonii CBS394.64 with application potential in the brewing and feed industries. Process Biochemistry, 2014, 49, 1448-1456.	3.7	20
100	Molecular Characterization of a New Alkaline-Tolerant Xylanase from<i>Humicola insolens</i>Y1. BioMed Research International, 2015, 2015, 1-7.	1.9	20
101	Insights into the substrate specificity and synergy with mannanase of family 27 Î±-galactosidases from Neosartorya fischeri P1. Applied Microbiology and Biotechnology, 2015, 99, 1261-1272.	3.6	20
102	Efficient Degradation of Zearalenone by Dye-Decolorizing Peroxidase from Streptomyces thermocarboxydus Combining Catalytic Properties of Manganese Peroxidase and Laccase. Toxins, 2021, 13, 602.	3.4	20
103	The use of T-DNA insertional mutagenesis to improve cellulase production by the thermophilic fungus Humicola insolens Y1. Scientific Reports, 2016, 6, 31108.	3.3	19
104	Two acidic, thermophilic GH28 polygalacturonases from Talaromyces leycettanus JCM 12802 with application potentials for grape juice clarification. Food Chemistry, 2017, 237, 997-1003.	8.2	19
105	Six new soilâ€"inhabiting Cladosporium species from plateaus in China. Mycologia, 2017, 109, 244-260.	1.9	19
106	Loop 3 of Fungal Endoglucanases of Glycoside Hydrolase Family 12 Modulates Catalytic Efficiency. Applied and Environmental Microbiology, 2017, 83, .	3.1	19
107	Expression of an extremely acidic Î²-1,4-glucanase from thermoacidophilic Alicyclobacillus sp. A4 in Pichia pastoris is improved by truncating the gene sequence. Microbial Cell Factories, 2010, 9, 33.	4.0	18
108	A novel thermoacidophilic and thermostable endo-Î²-1,4-glucanase from Phialophora sp. G5: its thermostability influenced by a distinct Î²-sheet and the carbohydrate-binding module. Applied Microbiology and Biotechnology, 2012, 95, 947-955.	3.6	18

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109	A New Î±-Galactosidase from Thermoacidophilic Alicyclobacillus sp. A4 with Wide Acceptor Specificity for Transglycosylation. Applied Biochemistry and Biotechnology, 2014, 174, 328-338.	2.9	18
110	Heterologous production of an acidic thermostable lipase with broad-range pH activity from thermophilic fungus Neosartorya fischeri P1. Journal of Bioscience and Bioengineering, 2016, 122, 539-544.	2.2	18
111	Insight into the Thermophilic Mechanism of a Glycoside Hydrolase Family 5 Î²-Mannanase. Journal of Agricultural and Food Chemistry, 2019, 67, 473-483.	5.2	18
112	Cloning, expression, and characterization of a thermostable Î²-xylosidase from thermoacidophilic Alicyclobacillus sp. A4. Process Biochemistry, 2014, 49, 1422-1428.	3.7	17
113	Impact of disulfide bonds on the folding and refolding capability of a novel thermostable GH45 cellulase. Applied Microbiology and Biotechnology, 2018, 102, 9183-9192.	3.6	17
114	A GH51 Î±-l-arabinofuranosidase from Talaromyces leycettanus strain JCM12802 that selectively drives synergistic lignocellulose hydrolysis. Microbial Cell Factories, 2019, 18, 138.	4.0	17
115	High-level expression and characterization of a novel aspartic protease from Talaromyces leycettanus JCM12802 and its potential application in juice clarification. Food Chemistry, 2019, 281, 197-203.	8.2	17
116	Development of <i>Bacillus amyloliquefaciens</i> as a high-level recombinant protein expression system. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 113-123.	3.0	17
117	Catalytic efficiency of HAP phytases is determined by a key residue in close proximity to the active site. Applied Microbiology and Biotechnology, 2011, 90, 1295-1302.	3.6	16
118	A C-Terminal Proline-Rich Sequence Simultaneously Broadens the Optimal Temperature and pH Ranges and Improves the Catalytic Efficiency of Glycosyl Hydrolase Family 10 Ruminal Xylanases. Applied and Environmental Microbiology, 2014, 80, 3426-3432.	3.1	16
119	A Novel GH7 Endo-Î²-1,4-Glucanase from Neosartorya fischeri P1 with Good Thermostability, Broad Substrate Specificity and Potential Application in the Brewing Industry. PLoS ONE, 2015, 10, e0137485.	2.5	16
120	Improvement of <i>Bs</i>APA Aspartic Protease Thermostability via Autocatalysis-Resistant Mutation. Journal of Agricultural and Food Chemistry, 2019, 67, 10505-10512.	5.2	16
121	The GH10 and GH48 dual-functional catalytic domains from a multimodular glycoside hydrolase synergize in hydrolyzing both cellulose and xylan. Biotechnology for Biofuels, 2019, 12, 279.	6.2	16
122	Engineering the <i>cbh1</i> Promoter of <i>Trichoderma reesei</i> for Enhanced Protein Production by Replacing the Binding Sites of a Transcription Repressor ACE1 to Those of the Activators. Journal of Agricultural and Food Chemistry, 2020, 68, 1337-1346.	5.2	16
123	A zebrafish (Danio rerio) bloodthirsty member 20 with E3 ubiquitin ligase activity involved in immune response against bacterial infection. Biochemical and Biophysical Research Communications, 2015, 457, 83-89.	2.1	15
124	Identification and molecular characterization of an Akirin2 homolog in Chinese loach (Paramisgurnus dabryanus). Fish and Shellfish Immunology, 2014, 36, 435-443.	3.6	14
125	Comparative Quantitative Analysis of Gene Expression Profiles of Glycoside Hydrolase Family 10 Xylanases in the Sheep Rumen during a Feeding Cycle. Applied and Environmental Microbiology, 2013, 79, 1212-1220.	3.1	13
126	Two thermophilic fungal pectinases from Neosartorya fischeri P1: Gene cloning, expression, and biochemical characterization. Journal of Molecular Catalysis B: Enzymatic, 2015, 118, 70-78.	1.8	13

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127	Efficient Coproduction of Mannanase and Cellulase by the Transformation of a Codon-Optimized Endomannanase Gene from <i>Aspergillus niger</i> into <i>Trichoderma reesei</i>. Journal of Agricultural and Food Chemistry, 2017, 65, 11046-11053.	5.2	13
128	Improvement of the catalytic efficiency of a hyperthermophilic xylanase from Bispora sp. MEY-1. PLoS ONE, 2017, 12, e0189806.	2.5	13
129	Patulin Detoxification by Recombinant Manganese Peroxidase from Moniliophthora roreri Expressed by Pichia pastoris. Toxins, 2022, 14, 440.	3.4	13
130	Identification of the C-Terminal GH5 Domain from CbCel9B/Man5A as the First Glycoside Hydrolase with Thermal Activation Property from a Multimodular Bifunctional Enzyme. PLoS ONE, 2016, 11, e0156802.	2.5	12
131	Probing the role of cation-Ï€ interaction in the thermotolerance and catalytic performance of endo-polygalacturonases. Scientific Reports, 2016, 6, 38413.	3.3	12
132	Substitution of a non-active-site residue located on the T3 loop increased the catalytic efficiency of endo -polygalacturonases. Process Biochemistry, 2016, 51, 1230-1238.	3.7	12
133	The disruption of two salt bridges of the cold-active xylanase XynGR40 results in an increase in activity, but a decrease in thermostability. Biochemical and Biophysical Research Communications, 2016, 481, 139-145.	2.1	12
134	Synergistic effect of acetyl xylan esterase from Talaromyces leycettanus JCM12802 and xylanase from Neocallimastix patriciarum achieved by introducing carbohydrate-binding module-1. AMB Express, 2019, 9, 13.	3.0	12
135	Characterization and biological function analysis of the trim3a gene from zebrafish (Danio rerio). Fish and Shellfish Immunology, 2012, 32, 621-628.	3.6	11
136	Engineering the residual side chains of HAP phytases to improve their pepsin resistance and catalytic efficiency. Scientific Reports, 2017, 7, 42133.	3.3	11
137	A key residue for the substrate affinity enhancement of a thermophilic endo-polygalacturonase revealed by computational design. Applied Microbiology and Biotechnology, 2018, 102, 4457-4466.	3.6	11
138	Characterization of two thermophilic cellulases from Talaromyces leycettanus JCM12802 and their synergistic action on cellulose hydrolysis. PLoS ONE, 2019, 14, e0224803.	2.5	11
139	A Neutral Thermostable Î²-1,4-Glucanase from Humicola insolens Y1 with Potential for Applications in Various Industries. PLoS ONE, 2015, 10, e0124925.	2.5	11
140	Molecular Cloning and Expression of a Novel Î²-Glucosidase Gene from Phialophora sp. G5. Applied Biochemistry and Biotechnology, 2013, 169, 941-949.	2.9	10
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