Qiu Cui

List of Publications by Year
in descending order

46 papers	966 citations	430874 18 h-index	477307 29 g-index
48 all docs	48 docs citations	48 times ranked	1145 citing authors

#	Article	IF	Citations
1	Thermophilic wholeâ€cell degradation of polyethylene terephthalate using engineered <i>Clostridium thermocellum</i>. Microbial Biotechnology, 2021, 14, 374-385.	4.2	106
2	Consolidated bio-saccharification: Leading lignocellulose bioconversion into the real world. Biotechnology Advances, 2020, 40, 107535.	11.7	102
3	Transcriptome and gene expression analysis of DHA producer Aurantiochytrium under low temperature conditions. Scientific Reports, 2015, 5, 14446.	3.3	55
4	The contribution of cellulosomal scaffoldins to cellulose hydrolysis by Clostridium thermocellum analyzed by using thermotargetrons. Biotechnology for Biofuels, 2014, 7, 80.	6.2	46
5	Cellulosome stoichiometry in Clostridium cellulolyticum is regulated by selective RNA processing and stabilization. Nature Communications, 2015, 6, 6900.	12.8	43
6	Efficient whole-cell-catalyzing cellulose saccharification using engineered Clostridium thermocellum. Biotechnology for Biofuels, 2017, 10, 124.	6.2	39
7	A new strategy for strain improvement of Aurantiochytrium sp. based on heavy-ions mutagenesis and synergistic effects of cold stress and inhibitors of enoyl-ACP reductase. Enzyme and Microbial Technology, 2016, 93-94, 182-190.	3.2	32
8	Determination of the native features of the exoglucanase Cel48S from Clostridium thermocellum. Biotechnology for Biofuels, 2018, 11, 6.	6.2	30
9	Structural Insight into the Stabilizing Effect of O-Glycosylation. Biochemistry, 2017, 56, 2897-2906.	2.5	29
10	A novel arabinose-inducible genetic operation system developed for Clostridium cellulolyticum. Biotechnology for Biofuels, 2015, 8, 36.	6.2	28
11	Artificial creation of Chlorella pyrenoidosa mutants for economic sustainable food production. Bioresource Technology, 2018, 268, 340-345.	9.6	27
12	Construction of consolidated bio-saccharification biocatalyst and process optimization for highly efficient lignocellulose solubilization. Biotechnology for Biofuels, 2019, 12, 35.	6.2	27
13	Coordinated Î²-glucosidase activity with the cellulosome is effective for enhanced lignocellulose saccharification. Bioresource Technology, 2021, 337, 125441.	9.6	26
14	Optimizing Eicosapentaenoic Acid Production by Grafting a Heterologous Polyketide Synthase Pathway in the Thraustochytrid <i>Aurantiochytrium</i>. Journal of Agricultural and Food Chemistry, 2020, 68, 11253-11260.	5.2	25
15	Regulation of biomass degradation by alternative Ïƒ factors in cellulolytic clostridia. Scientific Reports, 2018, 8, 11036.	3.3	24
16	Robust production of pigment-free pullulan from lignocellulosic hydrolysate by a new fungus co-utilizing glucose and xylose. Carbohydrate Polymers, 2020, 241, 116400.	10.2	24
17	Expression of Vitreoscilla hemoglobin enhances production of arachidonic acid and lipids in Mortierella alpina. BMC Biotechnology, 2017, 17, 68.	3.3	22
18	Revisiting the NMR solution structure of the Cel48S type-I dockerin module from Clostridium thermocellum reveals a cohesin-primed conformation. Journal of Structural Biology, 2014, 188, 188-193.	2.8	21

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19	Bacillaenes: Decomposition Trigger Point and Biofilm Enhancement in <i>Bacillus</i>. ACS Omega, 2021, 6, 1093-1098.	3.5	20
20	Wastewater recycling technology for fermentation in polyunsaturated fatty acid production. Bioresource Technology, 2017, 235, 79-86.	9.6	19
21	Selective oxidation of aliphatic Câ€“H bonds in alkylphenols by a chemomimetic biocatalytic system. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5129-E5137.	7.1	19
22	Changes in peptidomes and Fischer ratios of corn-derived oligopeptides depending on enzyme hydrolysis approaches. Food Chemistry, 2019, 297, 124931.	8.2	19
23	The spatial proximity effect of beta-glucosidase and cellulosomes on cellulose degradation. Enzyme and Microbial Technology, 2018, 115, 52-61.	3.2	17
24	Discovery and mechanism of a pH-dependent dual-binding-site switch in the interaction of a pair of protein modules. Science Advances, 2020, 6, .	10.3	16
25	Obtaining High-Purity Docosahexaenoic Acid Oil in Thraustochytrid <i>Aurantiochytrium</i> through a Combined Metabolic Engineering Strategy. Journal of Agricultural and Food Chemistry, 2021, 69, 10215-10222.	5.2	13
26	Heavy ion mutagenesis combined with triclosan screening provides a new strategy for improving the arachidonic acid yield in Mortierella alpina. BMC Biotechnology, 2018, 18, 23.	3.3	12
27	Inducing effects of cellulosic hydrolysate components of lignocellulose on cellulosome synthesis in <i>Clostridium thermocellum</i>. Microbial Biotechnology, 2018, 11, 905-916.	4.2	11
28	Current progress of targetron technology: Development, improvement and application in metabolic engineering. Biotechnology Journal, 2015, 10, 855-865.	3.5	10
29	PUFA-synthase-specific PPTase enhanced the polyunsaturated fatty acid biosynthesis via the polyketide synthase pathway in Aurantiochytrium. Biotechnology for Biofuels, 2020, 13, 152.	6.2	10
30	Structural insight into a GH1 Î²-glucosidase from the oleaginous microalga, Nannochloropsis oceanica. International Journal of Biological Macromolecules, 2021, 170, 196-206.	7.5	10
31	Separation and Quantification of Water-Soluble Cellular Metabolites in<i>Clostridium thermocellum</i>using Liquid Chromatography-Isotope Dilution Tandem Mass Spectrometry. Analytical Letters, 2013, 46, 2767-2786.	1.8	9
32	Phytohormones as stimulators to improve arachidonic acid biosynthesis in Mortierella alpina. Enzyme and Microbial Technology, 2019, 131, 109381.	3.2	9
33	Research advances on arachidonic acid production by fermentation and genetic modification of Mortierella alpina. World Journal of Microbiology and Biotechnology, 2021, 37, 4.	3.6	9
34	Cocktail biosynthesis of triacylglycerol by rational modulation of diacylglycerol acyltransferases in industrial oleaginous Aurantiochytrium. Biotechnology for Biofuels, 2021, 14, 246.	6.2	9
35	Resonance assignments of cohesin and dockerin domains from Clostridium acetobutylicum ATCC824. Biomolecular NMR Assignments, 2013, 7, 73-76.	0.8	8
36	An Effective Strategy for Identification of Highly Unstable Bacillaenes. Journal of Natural Products, 2019, 82, 3340-3346.	3.0	8

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37	Dissolved xylan inhibits cellulosome-based saccharification by binding to the key cellulosomal component of Clostridium thermocellum. International Journal of Biological Macromolecules, 2022, 207, 784-790.	7.5	8
38	Resonance assignments of a cellulosomal double-dockerin from Clostridium thermocellum. Biomolecular NMR Assignments, 2019, 13, 97-101.	0.8	7
39	Comprehensive analysis of metabolic alterations in Schizochytrium sp. strains with different DHA content. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1160, 122193.	2.3	6
40	Firmicutes-enriched IS1447 represents a group of IS3-family insertion sequences exhibiting unique +â€‰1 transcriptional slippage. Biotechnology for Biofuels, 2018, 11, 300.	6.2	4
41	Impact of ammonium sulfite-based sequential pretreatment combinations on two distinct saccharifications of wheat straw. RSC Advances, 2020, 10, 17129-17142.	3.6	4
42	Solution structure of a unicellular microalgae-derived translationally controlled tumor protein revealed both conserved features and structural diversity. Archives of Biochemistry and Biophysics, 2019, 665, 23-29.	3.0	2
43	Structure determination of archaea-specific ribosomal protein L46a reveals a novel protein fold. Biochemical and Biophysical Research Communications, 2014, 450, 67-72.	2.1	1
44	Resonance assignments of a VapC family toxin from Clostridium thermocellum. Biomolecular NMR Assignments, 2016, 10, 367-371.	0.8	0
45	Low stability of the reduced state of <i>Mycobacterium tuberculosis</i> NrdH redoxin. FEBS Letters, 2016, 590, 387-395.	2.8	0
46	NMR chemical shift assignments of a module of unknown function in the cellulosomal secondary scaffoldin ScaF from Clostridium thermocellum. Biomolecular NMR Assignments, 2021, 15, 329-334.	0.8	0