Hui Wei

List of Publications by Year
in descending order

37 papers	994 citations	516710 16 h-index	434195 31 g-index
37 all docs	37 docs citations	37 times ranked	1542 citing authors

#	Article	IF	Citations
1	Chimeric cellobiohydrolase I expression, activity, and biochemical properties in three oleaginous yeast. Biotechnology for Biofuels, 2021, 14, 6.	6.2	4
2	Iron incorporation both intra- and extra-cellularly improves the yield and saccharification of switchgrass (Panicum virgatum L.) biomass. Biotechnology for Biofuels, 2021, 14, 55.	6.2	2
3	Self-Assembling Metabolon Enables the Cell Free Conversion of Glycerol to 1,3-Propanediol. Frontiers in Energy Research, 2021, 9, .	2.3	1
4	Disruption of the Snf1 Gene Enhances Cell Growth and Reduces the Metabolic Burden in Cellulase-Expressing and Lipid-Accumulating Yarrowia lipolytica. Frontiers in Microbiology, 2021, 12, 757741.	3.5	6
5	High titer fatty alcohol production in Lipomyces starkeyi by fed-batch fermentation. Current Research in Biotechnology, 2020, 2, 83-87.	3.7	5
6	Ferrous and Ferric Ion-Facilitated Dilute Acid Pretreatment of Lignocellulosic Biomass under Anaerobic or Aerobic Conditions: Observations of Fe Valence Interchange and the Role of Fenton Reaction. Molecules, 2020, 25, 1427.	3.8	3
7	Metabolic engineering of Zymomonas mobilis for anaerobic isobutanol production. Biotechnology for Biofuels, 2020, 13, 15.	6.2	49
8	Connecting Microbial Genotype with Phenotype in the Omics Era. Methods in Molecular Biology, 2020, 2096, 217-233.	0.9	0
9	An Improved Leaf Protoplast System for Highly Efficient Transient Expression in Switchgrass (Panicum) Tj ETQq1 1 0.784314 rgBT /Over	0.9	1
10	Identification and Characterization of Five Cold Stress-Related Rhododendron Dehydrin Genes: Spotlight on a FSK-Type Dehydrin With Multiple F-Segments. Frontiers in Bioengineering and Biotechnology, 2019, 7, 30.	4.1	16
11	Prediction and characterization of promoters and ribosomal binding sites of Zymomonas mobilis in system biology era. Biotechnology for Biofuels, 2019, 12, 52.	6.2	58
12	Expression of an endoglucanaseâ€"cellobiohydrolase fusion protein in Saccharomyces cerevisiae, Yarrowia lipolytica, and Lipomyces starkeyi. Biotechnology for Biofuels, 2018, 11, 322.	6.2	13
13	Kinetic Modelling and Experimental Studies for the Effects of Fe2+ Ions on Xylan Hydrolysis with Dilute-Acid Pretreatment and Subsequent Enzymatic Hydrolysis. Catalysts, 2018, 8, 39.	3.5	16
14	Ameliorating the Metabolic Burden of the Co-expression of Secreted Fungal Cellulases in a High Lipid-Accumulating Yarrowia lipolytica Strain by Medium C/N Ratio and a Chemical Chaperone. Frontiers in Microbiology, 2018, 9, 3276.	3.5	20
15	Lignocellulose deconstruction in the biosphere. Current Opinion in Chemical Biology, 2017, 41, 61-70.	6.1	110
16	Towards an Understanding of Enhanced Biomass Digestibility by In Planta Expression of a Family 5 Glycoside Hydrolase. Scientific Reports, 2017, 7, 4389.	3.3	9
17	Evaluation of parameters affecting switchgrass tissue culture: toward a consolidated procedure for Agrobacterium-mediated transformation of switchgrass (Panicum virgatum). Plant Methods, 2017, 13, 113.	4.3	16
18	Expression and secretion of fungal endoglucanase II and chimeric cellobiohydrolase I in the oleaginous yeast Lipomyces starkeyi. Microbial Cell Factories, 2017, 16, 126.	4.0	14

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19	Comparison of Nitrogen Depletion and Repletion on Lipid Production in Yeast and Fungal Species. Energies, 2016, 9, 685.	3.1	14
20	Directed plant cell-wall accumulation of iron: embedding co-catalyst for efficient biomass conversion. Biotechnology for Biofuels, 2016, 9, 225.	6.2	12
21	Burkholderia phytofirmans Inoculation-Induced Changes on the Shoot Cell Anatomy and Iron Accumulation Reveal Novel Components of Arabidopsis-Endophyte Interaction that Can Benefit Downstream Biomass Deconstruction. Frontiers in Plant Science, 2016, 7, 24.	3.6	20
22	Cell wall targeted <i>in planta</i> iron accumulation enhances biomass conversion and seed iron concentration in Arabidopsis and rice. Plant Biotechnology Journal, 2016, 14, 1998-2009.	8.3	19
23	Fatty alcohol production in Lipomyces starkeyi and Yarrowia lipolytica. Biotechnology for Biofuels, 2016, 9, 227.	6.2	52
24	In situ micro-spectroscopic investigation of lignin in poplar cell walls pretreated by maleic acid. Biotechnology for Biofuels, 2015, 8, 126.	6.2	40
25	Identifying the ionically bound cell wall and intracellular glycoside hydrolases in late growth stage Arabidopsis stems: implications for the genetic engineering of bioenergy crops. Frontiers in Plant Science, 2015, 6, 315.	3.6	14
26	Transgenic ferritin overproduction enhances thermochemical pretreatments in Arabidopsis. Biomass and Bioenergy, 2015, 72, 55-64.	5.7	17
27	Heterologous Expression of Xylanase Enzymes in Lipogenic Yeast Yarrowia lipolytica. PLoS ONE, 2014, 9, e111443.	2.5	32
28	Comparison of transcriptional profiles of Clostridium thermocellum grown on cellobiose and pretreated yellow poplar using RNA-Seq. Frontiers in Microbiology, 2014, 5, 142.	3.5	48
29	NIR and Py-mbms coupled with multivariate data analysis as a high-throughput biomass characterization technique: a review. Frontiers in Plant Science, 2014, 5, 388.	3.6	44
30	Engineering towards a complete heterologous cellulase secretome in Yarrowia lipolytica reveals its potential for consolidated bioprocessing. Biotechnology for Biofuels, 2014, 7, 148.	6.2	45
31	Genomic, Proteomic, and Biochemical Analyses of Oleaginous Mucor circinelloides: Evaluating Its Capability in Utilizing Cellulolytic Substrates for Lipid Production. PLoS ONE, 2013, 8, e71068.	2.5	26
32	Tracking dynamics of plant biomass composting by changes in substrate structure, microbial community, and enzyme activity. Biotechnology for Biofuels, 2012, 5, 20.	6.2	40
33	Elucidating the role of ferrous ion cocatalyst in enhancing dilute acid pretreatment of lignocellulosic biomass. Biotechnology for Biofuels, 2011, 4, 48.	6.2	47
34	Natural paradigms of plant cell wall degradation. Current Opinion in Biotechnology, 2009, 20, 330-338.	6.6	136
35	Adenylate-Coupled Ion Movement. A Mechanism for the Control of Nodule Permeability to O2 Diffusion. Plant Physiology, 2006, 141, 280-287.	4.8	33
36	Adenylate Gradients and Ar:O2 Effects on Legume Nodules: I. Mathematical Models. Plant Physiology, 2004, 134, 801-812.	4.8	7

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37	Adenylate Gradients and Ar:O2 Effects on Legume Nodules. II. Changes in the Subcellular Adenylate Pools. Plant Physiology, 2004, 134, 1775-1783.	4.8	5