Mingjie Jin

List of Publications by Year
in descending order

106 papers	4,971 citations	87888 38 h-index	98798 67 g-index
109 all docs	109 docs citations	109 times ranked	5151 citing authors

#	Article	IF	Citations
1	Integration of corn ethanol and corn stover ethanol processes for improving xylose fermentation performance. Biomass Conversion and Biorefinery, 2023, 13, 6989-6999.	4.6	4
2	DLC(sa) and DLCA(sa) pretreatments boost the efficiency of microbial lipid production from rice straw via Trichosporon dermatis. Fuel, 2022, 309, 122117.	6.4	7
3	Densifying lignocellulosic biomass with sulfuric acid provides a durable feedstock with high digestibility and high fermentability for cellulosic ethanol production. Renewable Energy, 2022, 182, 377-389.	8.9	33
4	A highly selective turn-on fluorescence probe with large Stokes shift for detection of palladium and its applications in environment water and living cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120500.	3.9	6
5	Deciphering the metabolic distribution of vanillin in Rhodococcus opacus during lignin valorization. Bioresource Technology, 2022, 347, 126348.	9.6	8
6	DLCA (ch) pretreatment brings economic benefits to both biomass logistics and biomass conversion for low cost cellulosic ethanol production. Fuel, 2022, 311, 122603.	6.4	4
7	Effects of storage temperature and time on enzymatic digestibility and fermentability of Densifying lignocellulosic biomass with chemicals pretreated corn stover. Bioresource Technology, 2022, 347, 126359.	9.6	8
8	A novel xanthene-based fluorescence turn-on probe for highly selective detection of Hg2+ in water samples and living cells. Journal of Molecular Structure, 2022, 1254, 132312.	3.6	10
9	High titer cellulosic ethanol production from sugarcane bagasse via DLCA pretreatment and process development without washing/detoxifying pretreated biomass. Renewable Energy, 2022, 186, 904-913.	8.9	24
10	Understanding the toxicity of lignin-derived phenolics towards enzymatic saccharification of lignocellulose for rationally developing effective in-situ mitigation strategies to maximize sugar production from lignocellulosic biorefinery. Bioresource Technology, 2022, 349, 126813.	9.6	14
11	Modified simultaneous saccharification and co-fermentation of DLC pretreated corn stover for high-titer cellulosic ethanol production without water washing or detoxifying pretreated biomass. Energy, 2022, 247, 123488.	8.8	17
12	Rapid evolution and mechanism elucidation for efficient cellobiose-utilizing Saccharomyces cerevisiae through Synthetic Chromosome Rearrangement and Modification by LoxPsym-mediated Evolution. Bioresource Technology, 2022, 356, 127268.	9.6	4
13	Lime pretreatment of pelleted corn stover boosts ethanol titers and yields without water washing or detoxifying pretreated biomass. Renewable Energy, 2022, 192, 396-404.	8.9	6
14	Establishing a novel 3D printing bioinks system with recombinant human collagen. International Journal of Biological Macromolecules, 2022, 211, 400-409.	7.5	5
15	Preparation of Chitosan/Recombinant Human Collagen-Based Photo-Responsive Bioinks for 3D Bioprinting. Gels, 2022, 8, 314.	4.5	11
16	Microbial polyhydroxyalkanoate production from lignin by Pseudomonas putida NX-1. Bioresource Technology, 2021, 319, 124210.	9.6	41
17	Adaptive laboratory evolution of Yarrowia lipolytica improves ferulic acid tolerance. Applied Microbiology and Biotechnology, 2021, 105, 1745-1758.	3.6	34
18	Engineered Polyploid Yeast Strains Enable Efficient Xylose Utilization and Ethanol Production in Corn Hydrolysates. Frontiers in Bioengineering and Biotechnology, 2021, 9, 655272.	4.1	2

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19	Combined adaptive evolution and transcriptomic profiles reveal aromatic aldehydes tolerance mechanisms in Yarrowia lipolytica. Bioresource Technology, 2021, 329, 124910.	9.6	26
20	Increased mixing intensity is not necessary for more efficient cellulose hydrolysis at high solid loading. Bioresource Technology, 2021, 329, 124911.	9.6	19
21	Efficient Preparation of Sophorolipids and Functionalization with Amino Acids to Furnish Potent Preservatives. Journal of Agricultural and Food Chemistry, 2021, 69, 9608-9615.	5.2	12
22	Valorization of lignin components into gallate by integrated biological hydroxylation, O-demethylation, and aryl side-chain oxidation. Science Advances, 2021, 7, eabg4585.	10.3	40
23	Overexpressing CCW12 in Saccharomyces cerevisiae enables highly efficient ethanol production from lignocellulose hydrolysates. Bioresource Technology, 2021, 337, 125487.	9.6	14
24	In-situ corn fiber conversion method unlocks the role of viscosity on enhancing ethanol yield by reducing side-product glycerol. Industrial Crops and Products, 2021, 169, 113653.	5.2	4
25	Development of DLC and DLCA pretreatments with alkalis on rice straw for high titer microbial lipid production. Industrial Crops and Products, 2021, 172, 114086.	5.2	6
26	Efficient poly(3-hydroxybutyrate-co-lactate) production from corn stover hydrolysate by metabolically engineered Escherichia coli. Bioresource Technology, 2021, 341, 125873.	9.6	10
27	Densifying Lignocellulosic biomass with alkaline Chemicals (DLC) pretreatment unlocks highly fermentable sugars for bioethanol production from corn stover. Green Chemistry, 2021, 23, 4828-4839.	9.0	45
28	A near-infrared fluorescence turn-on probe based on Michael additionâ€"intramolecular cyclization for specific detection of cysteine and its applications in environmental water and milk samples and living cells. Analytical Methods, 2021, 13, 5369-5376.	2.7	5
29	Extremely high-performance production of rhamnolipids by advanced sequential fed-batch fermentation with high cell density. Journal of Cleaner Production, 2021, 326, 129382.	9.3	12
30	TargeTron Technology Applicable in Solventogenic Clostridia: Revisiting 12 Yearsâ€™ Advances. Biotechnology Journal, 2020, 15, 1900284.	3.5	11
31	Application of biosurfactant surfactin as a pH-switchable biodemulsifier for efficient oil recovery from waste crude oil. Chemosphere, 2020, 240, 124946.	8.2	46
32	Microbial lipid production from dilute acid and dilute alkali pretreated corn stover via Trichosporon dermatis. Bioresource Technology, 2020, 295, 122253.	9.6	49
33	Consolidated bioprocessing for butanol production of cellulolytic Clostridia: development and optimization. Microbial Biotechnology, 2020, 13, 410-422.	4.2	30
34	The Magnesium Concentration in Yeast Extracts Is a Major Determinant Affecting Ethanol Fermentation Performance of Zymomonas mobilis. Frontiers in Bioengineering and Biotechnology, 2020, 8, 957.	4.1	16
35	Facile synthesis of manganese oxide modified lignin nanocomposites from lignocellulosic biorefinery wastes for dye removal. Bioresource Technology, 2020, 315, 123846.	9.6	33
36	Chemical and thermochemical methods on lignocellulosic biorefinery. , 2020, , 101-132.		3

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37	Metabolic and Process Engineering of Clostridium beijerinckii for Butyl Acetate Production in One Step. Journal of Agricultural and Food Chemistry, 2020, 68, 9475-9487.	5.2	10
38	Recent progress and trends in the analysis and identification of rhamnolipids. Applied Microbiology and Biotechnology, 2020, 104, 8171-8186.	3.6	23
39	Evolutionary Engineering Improved <scp>d</scp>-Glucose/Xylose Cofermentation of <i>Yarrowia lipolytica</i>. Industrial & Engineering Chemistry Research, 2020, 59, 17113-17123.	3.7	10
40	Understanding the structural characteristics of water-soluble phenolic compounds from four pretreatments of corn stover and their inhibitory effects on enzymatic hydrolysis and fermentation. Biotechnology for Biofuels, 2020, 13, 44.	6.2	29
41	Combined evolutionary engineering and genetic manipulation improve low pH tolerance and butanol production in a synthetic microbial <i>Clostridium</i> community. Biotechnology and Bioengineering, 2020, 117, 2008-2022.	3.3	27
42	Overexpression of SFA1 in engineered Saccharomyces cerevisiae to increase xylose utilization and ethanol production from different lignocellulose hydrolysates. Bioresource Technology, 2020, 313, 123724.	9.6	24
43	Rhodosporidium toruloides - A potential red yeast chassis for lipids and beyond. FEMS Yeast Research, 2020, 20, .	2.3	83
44	Developing Clostridium diolis as a biorefinery chassis by genetic manipulation. Bioresource Technology, 2020, 305, 123066.	9.6	14
45	Metabolic Engineering of <i>Clostridium cellulovorans</i> to Improve Butanol Production by Consolidated Bioprocessing. ACS Synthetic Biology, 2020, 9, 304-315.	3.8	35
46	Development of a <i>Rhodococcus opacus</i> Cell Factory for Valorizing Lignin to Muconate. ACS Sustainable Chemistry and Engineering, 2020, 8, 2016-2031.	6.7	31
47	Cellulase-added cassava ethanol process boosts ethanol titer and reduces glycerol production. Industrial Crops and Products, 2020, 148, 112304.	5.2	8
48	Synthesis of a polydopamaine nanoparticle/bacterial cellulose composite for use as a biocompatible matrix for laccase immobilization. Cellulose, 2019, 26, 8337-8349.	4.9	13
49	Boosting Ethanol Productivity of Zymomonas mobilis 8b in Enzymatic Hydrolysate of Dilute Acid and Ammonia Pretreated Corn Stover Through Medium Optimization, High Cell Density Fermentation and Cell Recycling. Frontiers in Microbiology, 2019, 10, 2316.	3.5	19
50	Process integration for ethanol production from corn and corn stover as mixed substrates. Bioresource Technology, 2019, 279, 10-16.	9.6	45
51	<i>In situ</i> pretreatment during distillation improves corn fiber conversion and ethanol yield in the dry mill process. Green Chemistry, 2019, 21, 1080-1090.	9.0	21
52	Production of High-Value Polyunsaturated Fatty Acids Using Microbial Cultures. Methods in Molecular Biology, 2019, 1995, 229-248.	0.9	1
53	AFEXâ„¢ Pretreatment-Based Biorefinery Technologies. , 2019, , 1-16.		1
54	Isolation and purification of biosurfactant mannosylerythritol lipids from fermentation broth with methanol/water/n-hexane. Separation and Purification Technology, 2019, 219, 1-8.	7.9	26

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55	Integration in a depotâ€based decentralized biorefinery system: Corn stoverâ€based cellulosic biofuel. GCB Bioenergy, 2019, 11, 871-882.	5.6	22
56	Highâ€Performance Production of Biosurfactant Rhamnolipid with Nitrogen Feeding. Journal of Surfactants and Detergents, 2019, 22, 395-402.	2.1	17
57	Recent advances in lignin valorization with bacterial cultures: microorganisms, metabolic pathways, and bio-products. Biotechnology for Biofuels, 2019, 12, 32.	6.2	182
58	Ethanol production from mixtures of Distillerâ€™s Dried Grains with Solubles (DDGS) and corn. Industrial Crops and Products, 2019, 129, 59-66.	5.2	21
59	Integrated bioethanol production from mixtures of corn and corn stover. Bioresource Technology, 2018, 258, 18-25.	9.6	59
60	In-situ corn fiber conversion improves ethanol yield in corn dry-mill process. Industrial Crops and Products, 2018, 113, 217-224.	5.2	29
61	Biodegradation of kraft lignin by newly isolated Klebsiella pneumoniae, Pseudomonas putida, and Ochrobactrum tritici strains. Environmental Science and Pollution Research, 2018, 25, 14171-14181.	5.3	81
62	AFEXâ„¢ Pretreatment-Based Biorefinery Technologies. , 2018, , 1-16.		2
63	Developing fast enzyme recycling strategy through elucidating enzyme adsorption kinetics on alkali and acid pretreated corn stover. Biotechnology for Biofuels, 2018, 11, 316.	6.2	31
64	Mixing alkali pretreated and acid pretreated biomass for cellulosic ethanol production featuring reduced chemical use and decreased inhibitory effect. Industrial Crops and Products, 2018, 124, 719-725.	5.2	31
65	Combinatorial pretreatment and fermentation optimization enabled a record yield on lignin bioconversion. Biotechnology for Biofuels, 2018, 11, 21.	6.2	85
66	Water-soluble phenolic compounds produced from extractive ammonia pretreatment exerted binary inhibitory effects on yeast fermentation using synthetic hydrolysate. PLoS ONE, 2018, 13, e0194012.	2.5	39
67	Development of rapid bioconversion with integrated recycle technology for ethanol production from extractive ammonia pretreated corn stover. Biotechnology and Bioengineering, 2017, 114, 1713-1720.	3.3	13
68	Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. Green Chemistry, 2017, 19, 4939-4955.	9.0	116
69	Fed-batch hydrolysate addition and cell separation by settling in high cell density lignocellulosic ethanol fermentations on AFEXâ„¢ corn stover in the Rapid Bioconversion with Integrated recycling Technology process. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1261-1272.	3.0	8
70	Synthesis and evaluation of a novel fluorescent chemosensor for glutathione based on a rhodamine B and N -[4-(carbonyl) phenyl]maleimide conjugate and its application in living cell imaging. Dyes and Pigments, 2017, 136, 535-542.	3.7	26
71	Toward high solids loading process for lignocellulosic biofuel production at a low cost. Biotechnology and Bioengineering, 2017, 114, 980-989.	3.3	44
72	Cellulase hyper-production by Trichoderma reesei mutant SEU-7 on lactose. Biotechnology for Biofuels, 2017, 10, 228.	6.2	58

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73	Systems biology-guided biodesign of consolidated lignin conversion. Green Chemistry, 2016, 18, 5536-5547.	9.0	119
74	Comparative lipid production by oleaginous yeasts in hydrolyzates of lignocellulosic biomass and process strategy for high titers. Biotechnology and Bioengineering, 2016, 113, 1676-1690.	3.3	110
75	Empty Fruit Bunch from Date Palm Industriesâ€"A Sustainable Resource for Producing Biofuels and Industrial Solvents. Industrial Biotechnology, 2016, 12, 235-244.	0.8	3
76	Conversion of apple pomace waste to ethanol at industrial relevant conditions. Applied Microbiology and Biotechnology, 2016, 100, 7349-7358.	3.6	65
77	Quantifying pretreatment degradation compounds in solution and accumulated by cells during solids and yeast recycling in the Rapid Bioconversion with Integrated recycling Technology process using AFEXâ„¢ corn stover. Bioresource Technology, 2016, 205, 24-33.	9.6	17
78	Next-generation ammonia pretreatment enhances cellulosic biofuel production. Energy and Environmental Science, 2016, 9, 1215-1223.	30.8	169
79	Scaling up and benchmarking of ethanol production from pelletized pilot scale AFEX treated corn stover using <i>Zymomonas mobilis</i> 8b. Biofuels, 2016, 7, 253-262.	2.4	25
80	Toward lower cost cellulosic biofuel production using ammonia based pretreatment technologies. Green Chemistry, 2016, 18, 957-966.	9.0	68
81	Designer synthetic media for studying microbial-catalyzed biofuel production. Biotechnology for Biofuels, 2015, 8, 1.	6.2	418
82	Microbial lipid production from AFEXâ„¢ pretreated corn stover. RSC Advances, 2015, 5, 28725-28734.	3.6	26
83	Microbial lipid-based lignocellulosic biorefinery: feasibility and challenges. Trends in Biotechnology, 2015, 33, 43-54.	9.3	259
84	Identification of oleaginous yeast strains able to accumulate high intracellular lipids when cultivated in alkaline pretreated corn stover. Applied Microbiology and Biotechnology, 2014, 98, 7645-7657.	3.6	55
85	Comparative metabolic profiling revealed limitations in xyloseâ€fermenting yeast during coâ€fermentation of glucose and xylose in the presence of inhibitors. Biotechnology and Bioengineering, 2014, 111, 152-164.	3.3	58
86	Studying the rapid bioconversion of lignocellulosic sugars into ethanol using high cell density fermentations with cell recycle. Biotechnology for Biofuels, 2014, 7, 73.	6.2	41
87	High temperature aqueous ammonia pretreatment and post-washing enhance the high solids enzymatic hydrolysis of corn stover. Bioresource Technology, 2013, 146, 504-511.	9.6	67
88	Effect of storage conditions on the stability and fermentability of enzymatic lignocellulosic hydrolysate. Bioresource Technology, 2013, 147, 212-220.	9.6	19
89	In-house cellulase production from AFEXâ„¢ pretreated corn stover using Trichoderma reesei RUT C-30. RSC Advances, 2013, 3, 25960.	3.6	52
90	Phenotypic selection of a wild Saccharomyces cerevisiae strain for simultaneous saccharification and co-fermentation of AFEXâ„¢ pretreated corn stover. Biotechnology for Biofuels, 2013, 6, 108.	6.2	47

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91	Continuous SSCF of AFEXâ„¢ pretreated corn stover for enhanced ethanol productivity using commercial enzymes and <i>Saccharomyces cerevisiae</i> 424A (LNHâ€ST). Biotechnology and Bioengineering, 2013, 110, 1302-1311.	3.3	37
92	The Saccharification Step: Trichoderma Reesei Cellulase Hyper Producer Strains. , 2013, , 65-91.		1
93	Complex Physiology and Compound Stress Responses during Fermentation of Alkali-Pretreated Corn Stover Hydrolysate by an Escherichia coli Ethanologen. Applied and Environmental Microbiology, 2012, 78, 3442-3457.	3.1	57
94	An integrated paradigm for cellulosic biorefineries: utilization of lignocellulosic biomass as self-sufficient feedstocks for fuel, food precursors and saccharolytic enzyme production. Energy and Environmental Science, 2012, 5, 7100.	30.8	83
95	Biochemical and Thermochemical Conversion of Switchgrass to Biofuels. Green Energy and Technology, 2012, , 153-185.	0.6	14
96	A novel integrated biological process for cellulosic ethanol production featuring high ethanol productivity, enzyme recycling and yeast cells reuse. Energy and Environmental Science, 2012, 5, 7168.	30.8	90
97	Consolidated bioprocessing (CBP) of AFEXâ„¢â€pretreated corn stover for ethanol production using <i>Clostridium phytofermentans</i> at a high solids loading. Biotechnology and Bioengineering, 2012, 109, 1929-1936.	3.3	62
98	Low Temperature and Long Residence Time AFEX Pretreatment of Corn Stover. Bioenergy Research, 2012, 5, 372-379.	3.9	31
99	Simultaneous saccharification and co-fermentation (SSCF) of AFEXTM pretreated corn stover for ethanol production using commercial enzymes and Saccharomyces cerevisiae 424A(LNH-ST). Bioresource Technology, 2012, 110, 587-594.	9.6	72
100	Quantitatively understanding reduced xylose fermentation performance in AFEXTM treated corn stover hydrolysate using Saccharomyces cerevisiae 424A (LNH-ST) and Escherichia coli KO11. Bioresource Technology, 2012, 111, 294-300.	9.6	40
101	Comparative genomics of xylose-fermenting fungi for enhanced biofuel production. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13212-13217.	7.1	163
102	Conversion for Avicel and AFEX pretreated corn stover by Clostridium thermocellum and simultaneous saccharification and fermentation: Insights into microbial conversion of pretreated cellulosic biomass. Bioresource Technology, 2011, 102, 8040-8045.	9.6	57
103	Consolidated bioprocessing (CBP) performance of <i>Clostridium phytofermentans</i> on AFEXâ€treated corn stover for ethanol production. Biotechnology and Bioengineering, 2011, 108, 1290-1297.	3.3	96
104	Alkaliâ€based AFEX pretreatment for the conversion of sugarcane bagasse and cane leaf residues to ethanol. Biotechnology and Bioengineering, 2010, 107, 441-450.	3.3	168
105	Two-step SSCF to convert AFEX-treated switchgrass to ethanol using commercial enzymes and Saccharomyces cerevisiae 424A(LNH-ST). Bioresource Technology, 2010, 101, 8171-8178.	9.6	106
106	Evaluation of ammonia fibre expansion (AFEX) pretreatment for enzymatic hydrolysis of switchgrass harvested in different seasons and locations. Biotechnology for Biofuels, 2010, 3, 1.	6.2	365