

Mingjie Jin

List of Publications by Year in descending order

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106
papers

4,971
citations

87723

38
h-index

98622

67
g-index

109
all docs

109
docs citations

109
times ranked

5151
citing authors

#	ARTICLE	IF	CITATIONS
1	Designer synthetic media for studying microbial-catalyzed biofuel production. <i>Biotechnology for Biofuels</i> , 2015, 8, 1.	6.2	418
2	Evaluation of ammonia fibre expansion (AFEX) pretreatment for enzymatic hydrolysis of switchgrass harvested in different seasons and locations. <i>Biotechnology for Biofuels</i> , 2010, 3, 1.	6.2	365
3	Microbial lipid-based lignocellulosic biorefinery: feasibility and challenges. <i>Trends in Biotechnology</i> , 2015, 33, 43-54.	4.9	259
4	Recent advances in lignin valorization with bacterial cultures: microorganisms, metabolic pathways, and bio-products. <i>Biotechnology for Biofuels</i> , 2019, 12, 32.	6.2	182
5	Next-generation ammonia pretreatment enhances cellulosic biofuel production. <i>Energy and Environmental Science</i> , 2016, 9, 1215-1223.	15.6	169
6	Alkali-based AFEX pretreatment for the conversion of sugarcane bagasse and cane leaf residues to ethanol. <i>Biotechnology and Bioengineering</i> , 2010, 107, 441-450.	1.7	168
7	Comparative genomics of xylose-fermenting fungi for enhanced biofuel production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13212-13217.	3.3	163
8	Systems biology-guided biodesign of consolidated lignin conversion. <i>Green Chemistry</i> , 2016, 18, 5536-5547.	4.6	119
9	Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. <i>Green Chemistry</i> , 2017, 19, 4939-4955.	4.6	116
10	Comparative lipid production by oleaginous yeasts in hydrolyzates of lignocellulosic biomass and process strategy for high titers. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1676-1690.	1.7	110
11	Two-step SSCF to convert AFEX-treated switchgrass to ethanol using commercial enzymes and <i>Saccharomyces cerevisiae</i> 424A(LNH-ST). <i>Bioresource Technology</i> , 2010, 101, 8171-8178.	4.8	106
12	Consolidated bioprocessing (CBP) performance of <i>Clostridium phytofermentans</i> on AFEX-treated corn stover for ethanol production. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1290-1297.	1.7	96
13	A novel integrated biological process for cellulosic ethanol production featuring high ethanol productivity, enzyme recycling and yeast cells reuse. <i>Energy and Environmental Science</i> , 2012, 5, 7168.	15.6	90
14	Combinatorial pretreatment and fermentation optimization enabled a record yield on lignin bioconversion. <i>Biotechnology for Biofuels</i> , 2018, 11, 21.	6.2	85
15	An integrated paradigm for cellulosic biorefineries: utilization of lignocellulosic biomass as self-sufficient feedstocks for fuel, food precursors and saccharolytic enzyme production. <i>Energy and Environmental Science</i> , 2012, 5, 7100.	15.6	83
16	<i>Rhodospiridium toruloides</i> - A potential red yeast chassis for lipids and beyond. <i>FEMS Yeast Research</i> , 2020, 20, .	1.1	83
17	Biodegradation of kraft lignin by newly isolated <i>Klebsiella pneumoniae</i> , <i>Pseudomonas putida</i> , and <i>Ochrobactrum tritici</i> strains. <i>Environmental Science and Pollution Research</i> , 2018, 25, 14171-14181.	2.7	81
18	Simultaneous saccharification and co-fermentation (SSCF) of AFEX TM pretreated corn stover for ethanol production using commercial enzymes and <i>Saccharomyces cerevisiae</i> 424A(LNH-ST). <i>Bioresource Technology</i> , 2012, 110, 587-594.	4.8	72

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19	Toward lower cost cellulosic biofuel production using ammonia based pretreatment technologies. <i>Green Chemistry</i> , 2016, 18, 957-966.	4.6	68
20	High temperature aqueous ammonia pretreatment and post-washing enhance the high solids enzymatic hydrolysis of corn stover. <i>Bioresource Technology</i> , 2013, 146, 504-511.	4.8	67
21	Conversion of apple pomace waste to ethanol at industrial relevant conditions. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7349-7358.	1.7	65
22	Consolidated bioprocessing (CBP) of AFEX [®] , [®] pretreated corn stover for ethanol production using <i>Clostridium phytofermentans</i> at a high solids loading. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1929-1936.	1.7	62
23	Integrated bioethanol production from mixtures of corn and corn stover. <i>Bioresource Technology</i> , 2018, 258, 18-25.	4.8	59
24	Comparative metabolic profiling revealed limitations in xylose [®] fermenting yeast during co [®] fermentation of glucose and xylose in the presence of inhibitors. <i>Biotechnology and Bioengineering</i> , 2014, 111, 152-164.	1.7	58
25	Cellulase hyper-production by <i>Trichoderma reesei</i> mutant SEU-7 on lactose. <i>Biotechnology for Biofuels</i> , 2017, 10, 228.	6.2	58
26	Conversion for Avicel and AFEX pretreated corn stover by <i>Clostridium thermocellum</i> and simultaneous saccharification and fermentation: Insights into microbial conversion of pretreated cellulosic biomass. <i>Bioresource Technology</i> , 2011, 102, 8040-8045.	4.8	57
27	Complex Physiology and Compound Stress Responses during Fermentation of Alkali-Pretreated Corn Stover Hydrolysate by an <i>Escherichia coli</i> Ethanologen. <i>Applied and Environmental Microbiology</i> , 2012, 78, 3442-3457.	1.4	57
28	Identification of oleaginous yeast strains able to accumulate high intracellular lipids when cultivated in alkaline pretreated corn stover. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 7645-7657.	1.7	55
29	In-house cellulase production from AFEX [®] , [®] pretreated corn stover using <i>Trichoderma reesei</i> RUT C-30. <i>RSC Advances</i> , 2013, 3, 25960.	1.7	52
30	Microbial lipid production from dilute acid and dilute alkali pretreated corn stover via <i>Trichosporon dermatis</i> . <i>Bioresource Technology</i> , 2020, 295, 122253.	4.8	49
31	Phenotypic selection of a wild <i>Saccharomyces cerevisiae</i> strain for simultaneous saccharification and co-fermentation of AFEX [®] , [®] pretreated corn stover. <i>Biotechnology for Biofuels</i> , 2013, 6, 108.	6.2	47
32	Application of biosurfactant surfactin as a pH-switchable biodemulsifier for efficient oil recovery from waste crude oil. <i>Chemosphere</i> , 2020, 240, 124946.	4.2	46
33	Process integration for ethanol production from corn and corn stover as mixed substrates. <i>Bioresource Technology</i> , 2019, 279, 10-16.	4.8	45
34	Densifying Lignocellulosic biomass with alkaline Chemicals (DLC) pretreatment unlocks highly fermentable sugars for bioethanol production from corn stover. <i>Green Chemistry</i> , 2021, 23, 4828-4839.	4.6	45
35	Toward high solids loading process for lignocellulosic biofuel production at a low cost. <i>Biotechnology and Bioengineering</i> , 2017, 114, 980-989.	1.7	44
36	Studying the rapid bioconversion of lignocellulosic sugars into ethanol using high cell density fermentations with cell recycle. <i>Biotechnology for Biofuels</i> , 2014, 7, 73.	6.2	41

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37	Microbial polyhydroxyalkanoate production from lignin by <i>Pseudomonas putida</i> NX-1. <i>Bioresource Technology</i> , 2021, 319, 124210.	4.8	41
38	Quantitatively understanding reduced xylose fermentation performance in AFEX™ treated corn stover hydrolysate using <i>Saccharomyces cerevisiae</i> 424A (LNH-ST) and <i>Escherichia coli</i> KO11. <i>Bioresource Technology</i> , 2012, 111, 294-300.	4.8	40
39	Valorization of lignin components into gallate by integrated biological hydroxylation, O-demethylation, and aryl side-chain oxidation. <i>Science Advances</i> , 2021, 7, eabg4585.	4.7	40
40	Water-soluble phenolic compounds produced from extractive ammonia pretreatment exerted binary inhibitory effects on yeast fermentation using synthetic hydrolysate. <i>PLoS ONE</i> , 2018, 13, e0194012.	1.1	39
41	Continuous SSCF of AFEX™ pretreated corn stover for enhanced ethanol productivity using commercial enzymes and <i>Saccharomyces cerevisiae</i> 424A (LNH-ST). <i>Biotechnology and Bioengineering</i> , 2013, 110, 1302-1311.	1.7	37
42	Metabolic Engineering of <i>Clostridium cellulovorans</i> to Improve Butanol Production by Consolidated Bioprocessing. <i>ACS Synthetic Biology</i> , 2020, 9, 304-315.	1.9	35
43	Adaptive laboratory evolution of <i>Yarrowia lipolytica</i> improves ferulic acid tolerance. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 1745-1758.	1.7	34
44	Facile synthesis of manganese oxide modified lignin nanocomposites from lignocellulosic biorefinery wastes for dye removal. <i>Bioresource Technology</i> , 2020, 315, 123846.	4.8	33
45	Densifying lignocellulosic biomass with sulfuric acid provides a durable feedstock with high digestibility and high fermentability for cellulosic ethanol production. <i>Renewable Energy</i> , 2022, 182, 377-389.	4.3	33
46	Low Temperature and Long Residence Time AFEX Pretreatment of Corn Stover. <i>Bioenergy Research</i> , 2012, 5, 372-379.	2.2	31
47	Developing fast enzyme recycling strategy through elucidating enzyme adsorption kinetics on alkali and acid pretreated corn stover. <i>Biotechnology for Biofuels</i> , 2018, 11, 316.	6.2	31
48	Mixing alkali pretreated and acid pretreated biomass for cellulosic ethanol production featuring reduced chemical use and decreased inhibitory effect. <i>Industrial Crops and Products</i> , 2018, 124, 719-725.	2.5	31
49	Development of a <i>Rhodococcus opacus</i> Cell Factory for Valorizing Lignin to Muconate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2016-2031.	3.2	31
50	Consolidated bioprocessing for butanol production of cellulolytic Clostridia: development and optimization. <i>Microbial Biotechnology</i> , 2020, 13, 410-422.	2.0	30
51	In-situ corn fiber conversion improves ethanol yield in corn dry-mill process. <i>Industrial Crops and Products</i> , 2018, 113, 217-224.	2.5	29
52	Understanding the structural characteristics of water-soluble phenolic compounds from four pretreatments of corn stover and their inhibitory effects on enzymatic hydrolysis and fermentation. <i>Biotechnology for Biofuels</i> , 2020, 13, 44.	6.2	29
53	Combined evolutionary engineering and genetic manipulation improve low pH tolerance and butanol production in a synthetic microbial <i>Clostridium</i> community. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2008-2022.	1.7	27
54	Microbial lipid production from AFEX™ pretreated corn stover. <i>RSC Advances</i> , 2015, 5, 28725-28734.	1.7	26

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55	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. <i>Dyes and Pigments</i> , 2017, 136, 535-542.	2.0	26
56	Isolation and purification of biosurfactant mannosylerythritol lipids from fermentation broth with methanol/water/n-hexane. <i>Separation and Purification Technology</i> , 2019, 219, 1-8.	3.9	26
57	Combined adaptive evolution and transcriptomic profiles reveal aromatic aldehydes tolerance mechanisms in <i>Yarrowia lipolytica</i> . <i>Bioresource Technology</i> , 2021, 329, 124910.	4.8	26
58	Scaling up and benchmarking of ethanol production from pelletized pilot scale AFEX treated corn stover using <i>Zymomonas mobilis</i> 8b. <i>Biofuels</i> , 2016, 7, 253-262.	1.4	25
59	Overexpression of SFA1 in engineered <i>Saccharomyces cerevisiae</i> to increase xylose utilization and ethanol production from different lignocellulose hydrolysates. <i>Bioresource Technology</i> , 2020, 313, 123724.	4.8	24
60	High titer cellulosic ethanol production from sugarcane bagasse via DLCA pretreatment and process development without washing/detoxifying pretreated biomass. <i>Renewable Energy</i> , 2022, 186, 904-913.	4.3	24
61	Recent progress and trends in the analysis and identification of rhamnolipids. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8171-8186.	1.7	23
62	Integration in a depot-based decentralized biorefinery system: Corn stover-based cellulosic biofuel. <i>GCB Bioenergy</i> , 2019, 11, 871-882.	2.5	22
63	<i>In situ</i> pretreatment during distillation improves corn fiber conversion and ethanol yield in the dry mill process. <i>Green Chemistry</i> , 2019, 21, 1080-1090.	4.6	21
64	Ethanol production from mixtures of Distiller's Dried Grains with Solubles (DDGS) and corn. <i>Industrial Crops and Products</i> , 2019, 129, 59-66.	2.5	21
65	Effect of storage conditions on the stability and fermentability of enzymatic lignocellulosic hydrolysate. <i>Bioresource Technology</i> , 2013, 147, 212-220.	4.8	19
66	Boosting Ethanol Productivity of <i>Zymomonas mobilis</i> 8b in Enzymatic Hydrolysate of Dilute Acid and Ammonia Pretreated Corn Stover Through Medium Optimization, High Cell Density Fermentation and Cell Recycling. <i>Frontiers in Microbiology</i> , 2019, 10, 2316.	1.5	19
67	Increased mixing intensity is not necessary for more efficient cellulose hydrolysis at high solid loading. <i>Bioresource Technology</i> , 2021, 329, 124911.	4.8	19
68	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 AFEX, corn stover. <i>Bioresource Technology</i> , 2016, 205, 24-33.	4.8	17
69	High-Performance Production of Biosurfactant Rhamnolipid with Nitrogen Feeding. <i>Journal of Surfactants and Detergents</i> , 2019, 22, 395-402.	1.0	17
70	Modified simultaneous saccharification and co-fermentation of DLC pretreated corn stover for high-titer cellulosic ethanol production without water washing or detoxifying pretreated biomass. <i>Energy</i> , 2022, 247, 123488.	4.5	17
71	The Magnesium Concentration in Yeast Extracts Is a Major Determinant Affecting Ethanol Fermentation Performance of <i>Zymomonas mobilis</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 957.	2.0	16
72	Biochemical and Thermochemical Conversion of Switchgrass to Biofuels. <i>Green Energy and Technology</i> , 2012, , 153-185.	0.4	14

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73	Developing <i>Clostridium diolis</i> as a biorefinery chassis by genetic manipulation. <i>Bioresource Technology</i> , 2020, 305, 123066.	4.8	14
74	Overexpressing CCW12 in <i>Saccharomyces cerevisiae</i> enables highly efficient ethanol production from lignocellulose hydrolysates. <i>Bioresource Technology</i> , 2021, 337, 125487.	4.8	14
75	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. <i>Bioresource Technology</i> , 2022, 349, 126813.	4.8	14
76	Development of rapid bioconversion with integrated recycle technology for ethanol production from extractive ammonia pretreated corn stover. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1713-1720.	1.7	13
77	Synthesis of a polydopamine nanoparticle/bacterial cellulose composite for use as a biocompatible matrix for laccase immobilization. <i>Cellulose</i> , 2019, 26, 8337-8349.	2.4	13
78	Efficient Preparation of Sophorolipids and Functionalization with Amino Acids to Furnish Potent Preservatives. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 9608-9615.	2.4	12
79	Extremely high-performance production of rhamnolipids by advanced sequential fed-batch fermentation with high cell density. <i>Journal of Cleaner Production</i> , 2021, 326, 129382.	4.6	12
80	Targetron Technology Applicable in Solventogenic <i>Clostridia</i> : Revisiting 12 Years' Advances. <i>Biotechnology Journal</i> , 2020, 15, 1900284.	1.8	11
81	Preparation of Chitosan/Recombinant Human Collagen-Based Photo-Responsive Bioinks for 3D Bioprinting. <i>Gels</i> , 2022, 8, 314.	2.1	11
82	Metabolic and Process Engineering of <i>Clostridium beijerinckii</i> for Butyl Acetate Production in One Step. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 9475-9487.	2.4	10
83	Evolutionary Engineering Improved <i>Clostridium</i> -Glucose/Xylose Cofermentation of <i>Yarrowia lipolytica</i> . <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17113-17123.	1.8	10
84	Efficient poly(3-hydroxybutyrate-co-lactate) production from corn stover hydrolysate by metabolically engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2021, 341, 125873.	4.8	10
85	A novel xanthene-based fluorescence turn-on probe for highly selective detection of Hg ²⁺ in water samples and living cells. <i>Journal of Molecular Structure</i> , 2022, 1254, 132312.	1.8	10
86	Fed-batch hydrolysate addition and cell separation by settling in high cell density lignocellulosic ethanol fermentations on AFEX [®] corn stover in the Rapid Bioconversion with Integrated recycling Technology process. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 1261-1272.	1.4	8
87	Cellulase-added cassava ethanol process boosts ethanol titer and reduces glycerol production. <i>Industrial Crops and Products</i> , 2020, 148, 112304.	2.5	8
88	Deciphering the metabolic distribution of vanillin in <i>Rhodococcus opacus</i> during lignin valorization. <i>Bioresource Technology</i> , 2022, 347, 126348.	4.8	8
89	Effects of storage temperature and time on enzymatic digestibility and fermentability of Densifying lignocellulosic biomass with chemicals pretreated corn stover. <i>Bioresource Technology</i> , 2022, 347, 126359.	4.8	8
90	DLC(sa) and DLCA(sa) pretreatments boost the efficiency of microbial lipid production from rice straw via <i>Trichosporon dermatis</i> . <i>Fuel</i> , 2022, 309, 122117.	3.4	7

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91	Development of DLC and DLCA pretreatments with alkalis on rice straw for high titer microbial lipid production. <i>Industrial Crops and Products</i> , 2021, 172, 114086.	2.5	6
92	A highly selective turn-on fluorescence probe with large Stokes shift for detection of palladium and its applications in environment water and living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120500.	2.0	6
93	Lime pretreatment of pelleted corn stover boosts ethanol titers and yields without water washing or detoxifying pretreated biomass. <i>Renewable Energy</i> , 2022, 192, 396-404.	4.3	6
94	A near-infrared fluorescence turn-on probe based on Michael addition intramolecular cyclization for specific detection of cysteine and its applications in environmental water and milk samples and living cells. <i>Analytical Methods</i> , 2021, 13, 5369-5376.	1.3	5
95	Establishing a novel 3D printing bioinks system with recombinant human collagen. <i>International Journal of Biological Macromolecules</i> , 2022, 211, 400-409.	3.6	5
96	Integration of corn ethanol and corn stover ethanol processes for improving xylose fermentation performance. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 6989-6999.	2.9	4
97	In-situ corn fiber conversion method unlocks the role of viscosity on enhancing ethanol yield by reducing side-product glycerol. <i>Industrial Crops and Products</i> , 2021, 169, 113653.	2.5	4
98	DLCA (ch) pretreatment brings economic benefits to both biomass logistics and biomass conversion for low cost cellulosic ethanol production. <i>Fuel</i> , 2022, 311, 122603.	3.4	4
99	Rapid evolution and mechanism elucidation for efficient cellobiose-utilizing <i>Saccharomyces cerevisiae</i> through Synthetic Chromosome Rearrangement and Modification by LoxPsym-mediated Evolution. <i>Bioresource Technology</i> , 2022, 356, 127268.	4.8	4
100	Empty Fruit Bunch from Date Palm Industries A Sustainable Resource for Producing Biofuels and Industrial Solvents. <i>Industrial Biotechnology</i> , 2016, 12, 235-244.	0.5	3
101	Chemical and thermochemical methods on lignocellulosic biorefinery. , 2020, , 101-132.		3
102	AFEX Pretreatment-Based Biorefinery Technologies. , 2018, , 1-16.		2
103	Engineered Polyploid Yeast Strains Enable Efficient Xylose Utilization and Ethanol Production in Corn Hydrolysates. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 655272.	2.0	2
104	The Saccharification Step: <i>Trichoderma Reesei</i> Cellulase Hyper Producer Strains. , 2013, , 65-91.		1
105	Production of High-Value Polyunsaturated Fatty Acids Using Microbial Cultures. <i>Methods in Molecular Biology</i> , 2019, 1995, 229-248.	0.4	1
106	AFEX Pretreatment-Based Biorefinery Technologies. , 2019, , 1-16.		1