

Bing-Zhi Li

List of Publications by Year in descending order

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111
papers

4,646
citations

94433

37
h-index

118850

62
g-index

118
all docs

118
docs citations

118
times ranked

4001
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of different surfactants on the degradation of petroleum hydrocarbons by mixed bacteria. Journal of Chemical Technology and Biotechnology, 2022, 97, 208-217.	3.2	6
2	High-solid ethylenediamine pretreatment to fractionate new lignin streams from lignocellulosic biomass. Chemical Engineering Journal, 2022, 427, 130962.	12.7	38
3	Cosolvent enhanced lignocellulosic fractionation tailoring lignin chemistry and enhancing lignin bioconversion. Bioresource Technology, 2022, 347, 126367.	9.6	14
4	Artificial nondirectional site-specific recombination systems. IScience, 2022, 25, 103716.	4.1	1
5	The TelN/tos-assisted precise targeting of chromosome segments (TAPE). Journal of Advanced Research, 2022, 41, 169-177.	9.5	3
6	Microbial Adaptation to Enhance Stress Tolerance. Frontiers in Microbiology, 2022, 13, 888746.	3.5	31
7	Directed yeast genome evolution by controlled introduction of trans-chromosomal structural variations. Science China Life Sciences, 2022, 65, 1703-1717.	4.9	7
8	Transmembrane transport process and endoplasmic reticulum function facilitate the role of gene cell1b in cellulase production of Trichoderma reesei. Microbial Cell Factories, 2022, 21, 90.	4.0	6
9	Intron retention coupled with nonsense-mediated decay is involved in cellulase biosynthesis in cellulolytic fungi. , 2022, 15, 53.		1
10	Identifying ligninolytic bacteria for lignin valorization to bioplastics. Bioresource Technology, 2022, 358, 127383.	9.6	14
11	Microbial Valorization of Lignin to Bioplastic by Genome-Reduced Pseudomonas putida. Frontiers in Microbiology, 2022, 13, .	3.5	8
12	Bacterial conversion routes for lignin valorization. Biotechnology Advances, 2022, 60, 108000.	11.7	16
13	Amine-based pretreatments for lignocellulose fractionation and lignin valorization: a review. Green Chemistry, 2022, 24, 5460-5478.	9.0	19
14	Breakthrough in efficient cloning and activation of large cryptic biosynthetic gene clusters from high GC actinobacteria. Synthetic and Systems Biotechnology, 2022, 7, 1064-1065.	3.7	0
15	Lignin valorization for protocatechuic acid production in engineered <i>Saccharomyces cerevisiae</i> . Green Chemistry, 2021, 23, 6515-6526.	9.0	31
16	Elucidating the mechanisms of enhanced lignin bioconversion by an alkali sterilization strategy. Green Chemistry, 2021, 23, 4697-4709.	9.0	20
17	Dissecting Cellular Function and Distribution of β -Glucosidases in Trichoderma reesei. MBio, 2021, 12, .	4.1	23
18	Yeast autonomously replicating sequence (ARS): Identification, function, and modification. Engineering in Life Sciences, 2021, 21, 464-474.	3.6	1

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19	Large-Scale de novo Oligonucleotide Synthesis for Whole-Genome Synthesis and Data Storage: Challenges and Opportunities. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 689797.	4.1	34
20	Engineering synthetic microbial consortium for efficient conversion of lactate from glucose and xylose to generate electricity. <i>Biochemical Engineering Journal</i> , 2021, 172, 108052.	3.6	7
21	Glutamine involvement in nitrogen regulation of cellulase production in fungi. <i>Biotechnology for Biofuels</i> , 2021, 14, 199.	6.2	7
22	Lactic Acid-Producing Probiotic <i>Saccharomyces cerevisiae</i> Attenuates Ulcerative Colitis via Suppressing Macrophage Pyroptosis and Modulating Gut Microbiota. <i>Frontiers in Immunology</i> , 2021, 12, 777665.	4.8	57
23	Evaluation of PET Degradation Using Artificial Microbial Consortia. <i>Frontiers in Microbiology</i> , 2021, 12, 778828.	3.5	31
24	Protein acetylation regulates xylose metabolism during adaptation of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 241.	6.2	2
25	Temperature profiled simultaneous saccharification and co-fermentation of corn stover increases ethanol production at high solid loading. <i>Energy Conversion and Management</i> , 2020, 205, 112344.	9.2	29
26	Ethylenediamine Enhances Ionic Liquid Pretreatment Performance at High Solid Loading. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13007-13018.	6.7	27
27	Chromosome drives via CRISPR-Cas9 in yeast. <i>Nature Communications</i> , 2020, 11, 4344.	12.8	24
28	Engineering prokaryotic regulator <i>IrrE</i> to enhance stress tolerance in budding yeast. <i>Biotechnology for Biofuels</i> , 2020, 13, 193.	6.2	13
29	Engineering budding yeast for the production of coumarins from lignin. <i>Biochemical Engineering Journal</i> , 2020, 160, 107634.	3.6	24
30	Stress-driven dynamic regulation of multiple tolerance genes improves robustness and productive capacity of <i>Saccharomyces cerevisiae</i> in industrial lignocellulose fermentation. <i>Metabolic Engineering</i> , 2020, 61, 160-170.	7.0	57
31	Multilevel Defense System (MDS) Relieves Multiple Stresses for Economically Boosting Ethanol Production of Industrial <i>Saccharomyces cerevisiae</i> . <i>ACS Energy Letters</i> , 2020, 5, 572-582.	17.4	31
32	Fractionation of corn stover by two-step pretreatment for production of ethanol, furfural, and lignin. <i>Energy</i> , 2020, 195, 117076.	8.8	33
33	SCRaMbLEing of a Synthetic Yeast Chromosome with Clustered Essential Genes Reveals Synthetic Lethal Interactions. <i>ACS Synthetic Biology</i> , 2020, 9, 1181-1189.	3.8	17
34	Sequencing barcode construction and identification methods based on block error-correction codes. <i>Science China Life Sciences</i> , 2020, 63, 1580-1592.	4.9	12
35	Alkali-Based Pretreatment-Facilitated Lignin Valorization: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16923-16938.	3.7	70
36	The effect of autonomously replicating sequences on gene expression in <i>saccharomyces cerevisiae</i> . <i>Biochemical Engineering Journal</i> , 2019, 149, 107250.	3.6	8

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37	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993.	4.4	1
38	Lignin valorization meets synthetic biology. <i>Engineering in Life Sciences</i> , 2019, 19, 463-470.	3.6	19
39	Improving co-fermentation of glucose and xylose by adaptive evolution of engineering xylose-fermenting <i>Saccharomyces cerevisiae</i> and different fermentation strategies. <i>Renewable Energy</i> , 2019, 139, 1176-1183.	8.9	32
40	Engineering the Biosynthesis of Caffeic Acid in <i>Saccharomyces cerevisiae</i> with Heterologous Enzyme Combinations. <i>Engineering</i> , 2019, 5, 287-295.	6.7	42
41	Hydrothermal pretreatment for deconstruction of plant cell wall: Part I. Effect on lignin-carbohydrate complex. <i>AIChE Journal</i> , 2018, 64, 1938-1953.	3.6	26
42	Hydrothermal pretreatment for deconstruction of plant cell wall: Part II. Effect on cellulose structure and bioconversion. <i>AIChE Journal</i> , 2018, 64, 1954-1964.	3.6	13
43	Identification and manipulation of a novel locus to improve cell tolerance to short-chain alcohols in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 589-598.	3.0	5
44	Process analysis and optimization of simultaneous saccharification and co-fermentation of ethylenediamine-pretreated corn stover for ethanol production. <i>Biotechnology for Biofuels</i> , 2018, 11, 118.	6.2	48
45	Gene repression via multiplex gRNA strategy in <i>Y. lipolytica</i> . <i>Microbial Cell Factories</i> , 2018, 17, 62.	4.0	57
46	Endogenous lycopene improves ethanol production under acetic acid stress in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 107.	6.2	21
47	Rapid and Efficient CRISPR/Cas9-Based Mating-Type Switching of <i>Saccharomyces cerevisiae</i> . <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 173-183.	1.8	39
48	Antifungal effects of BiOBr nanosheets carrying surfactant cetyltrimethylammonium bromide. <i>Journal of Biomedical Research</i> , 2018, 32, 380-388.	1.6	5
49	Ring synthetic chromosome V SCRaMbLE. <i>Nature Communications</i> , 2018, 9, 3783.	12.8	46
50	Precise control of SCRaMbLE in synthetic haploid and diploid yeast. <i>Nature Communications</i> , 2018, 9, 1933.	12.8	118
51	In vitro DNA SCRaMbLE. <i>Nature Communications</i> , 2018, 9, 1935.	12.8	81
52	Heterozygous diploid and interspecies SCRaMbLEing. <i>Nature Communications</i> , 2018, 9, 1934.	12.8	82
53	Ethylenediamine pretreatment of corn stover facilitates high gravity fermentation with low enzyme loading. <i>Bioresource Technology</i> , 2018, 267, 227-234.	9.6	26
54	Engineering global transcription to tune lipophilic properties in <i>Yarrowia lipolytica</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 115.	6.2	12

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55	Stepwise pretreatment of aqueous ammonia and ethylenediamine improve enzymatic hydrolysis of corn stover. <i>Industrial Crops and Products</i> , 2018, 124, 201-208.	5.2	21
56	Improving xylose utilization and ethanol production from dry dilute acid pretreated corn stover by two-step and fed-batch fermentation. <i>Energy</i> , 2018, 157, 877-885.	8.8	26
57	Synthetic <i>Saccharomyces cerevisiae</i> </i>â€<i>Shewanella oneidensis</i> consortium enables glucoseâ€fed highâ€performance microbial fuel cell. <i>AIChE Journal</i> , 2017, 63, 1830-1838.	3.6	46
58	Engineering the ribosomal DNA in a megabase synthetic chromosome. <i>Science</i> , 2017, 355, .	12.6	169
59	â€Perfectâ€designer chromosome V and behavior of a ring derivative. <i>Science</i> , 2017, 355, .	12.6	185
60	Bug mapping and fitness testing of chemically synthesized chromosome X. <i>Science</i> , 2017, 355, .	12.6	173
61	Deep functional analysis of synII, a 770-kilobase synthetic yeast chromosome. <i>Science</i> , 2017, 355, .	12.6	163
62	A three-species microbial consortium for power generation. <i>Energy and Environmental Science</i> , 2017, 10, 1600-1609.	30.8	90
63	Dual effect of soluble materials in pretreated lignocellulose on simultaneous saccharification and co-fermentation process for the bioethanol production. <i>Bioresource Technology</i> , 2017, 224, 342-348.	9.6	18
64	Hydrolysis of Lignocellulosic Biomass to Sugars. <i>Biofuels and Biorefineries</i> , 2017, , 3-41.	0.5	5
65	Production of naringenin from Dâ€xylose with coâ€culture of <i>E. coli</i> and <i>S. cerevisiae</i>. <i>Engineering in Life Sciences</i> , 2017, 17, 1021-1029.	3.6	51
66	Optimization of ethylenediamine pretreatment and enzymatic hydrolysis to produce fermentable sugars from corn stover. <i>Industrial Crops and Products</i> , 2017, 102, 51-57.	5.2	32
67	Profiling influences of gene overexpression on heterologous resveratrol production in <i>Saccharomyces cerevisiae</i> . <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 117-125.	4.4	19
68	Design and chemical synthesis of eukaryotic chromosomes. <i>Chemical Society Reviews</i> , 2017, 46, 7191-7207.	38.1	21
69	Orthogonal Ribosome Biofirewall. <i>ACS Synthetic Biology</i> , 2017, 6, 2108-2117.	3.8	11
70	Enhancement of Simultaneous Xylose and Glucose Utilization by Regulating ZWF1 and PGI1 in <i>Saccharomyces Cerevisiae</i> . <i>Transactions of Tianjin University</i> , 2017, 23, 201-210.	6.4	2
71	Reducing sugar loss in enzymatic hydrolysis of ethylenediamine pretreated corn stover. <i>Bioresource Technology</i> , 2017, 224, 405-410.	9.6	15
72	Genome-wide landscape of position effects on heterogeneous gene expression in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 189.	6.2	53

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73	Cellulase hyper-production by <i>Trichoderma reesei</i> mutant SEU-7 on lactose. <i>Biotechnology for Biofuels</i> , 2017, 10, 228.	6.2	58
74	Hybridization Improves Inhibitor Tolerance of Xylose-fermenting <i>Saccharomyces cerevisiae</i> . <i>BioResources</i> , 2017, 12, .	1.0	4
75	Design and synthesis of yeast chromosomes. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , 2017, 39, 865-876.	0.2	2
76	Enhanced Bioconversion of Cellobiose by Industrial <i>Saccharomyces cerevisiae</i> Used for Cellulose Utilization. <i>Frontiers in Microbiology</i> , 2016, 7, 241.	3.5	25
77	Multigene Pathway Engineering with Regulatory Linkers (M-PERL). <i>ACS Synthetic Biology</i> , 2016, 5, 1535-1545.	3.8	11
78	In situ detoxification of dry dilute acid pretreated corn stover by co-culture of xylose-utilizing and inhibitor-tolerant <i>Saccharomyces cerevisiae</i> increases ethanol production. <i>Bioresource Technology</i> , 2016, 218, 380-387.	9.6	30
79	A β -glucosidase hyper-production <i>Trichoderma reesei</i> mutant reveals a potential role of cel3D in cellulase production. <i>Microbial Cell Factories</i> , 2016, 15, 151.	4.0	64
80	Engineering <i>Escherichia coli</i> for production of 4-hydroxymandelic acid using glucose"xylose mixture. <i>Microbial Cell Factories</i> , 2016, 15, 90.	4.0	24
81	Inhibition of lignin-derived phenolic compounds to cellulase. <i>Biotechnology for Biofuels</i> , 2016, 9, 70.	6.2	170
82	Evaluation of soluble fraction and enzymatic residual fraction of dilute dry acid, ethylenediamine, and steam explosion pretreated corn stover on the enzymatic hydrolysis of cellulose. <i>Bioresource Technology</i> , 2016, 209, 172-179.	9.6	22
83	Ethylenediamine pretreatment changes cellulose allomorph and lignin structure of lignocellulose at ambient pressure. <i>Biotechnology for Biofuels</i> , 2015, 8, 174.	6.2	56
84	Increasing proline and myo-inositol improves tolerance of <i>Saccharomyces cerevisiae</i> to the mixture of multiple lignocellulose-derived inhibitors. <i>Biotechnology for Biofuels</i> , 2015, 8, 142.	6.2	46
85	Heterologous xylose isomerase pathway and evolutionary engineering improve xylose utilization in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Microbiology</i> , 2015, 6, 1165.	3.5	31
86	Deletion of d-ribulose-5-phosphate 3-epimerase (RPE1) induces simultaneous utilization of xylose and glucose in xylose-utilizing <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2015, 37, 1031-1036.	2.2	22
87	Physical and Chemical Characterizations of Corn Stover from Leading Pretreatment Methods and Effects on Enzymatic Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 140-146.	6.7	61
88	Modularization of genetic elements promotes synthetic metabolic engineering. <i>Biotechnology Advances</i> , 2015, 33, 1412-1419.	11.7	12
89	Engineered biosynthesis of natural products in heterologous hosts. <i>Chemical Society Reviews</i> , 2015, 44, 5265-5290.	38.1	156
90	Simultaneous saccharification and co-fermentation of dry diluted acid pretreated corn stover at high dry matter loading: Overcoming the inhibitors by non-tolerant yeast. <i>Bioresource Technology</i> , 2015, 198, 39-46.	9.6	49

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91	Simultaneous saccharification and fermentation of steam-exploded corn stover at high glucan loading and high temperature. <i>Biotechnology for Biofuels</i> , 2014, 7, 167.	6.2	115
92	Proteomic analysis reveals complex metabolic regulation in <i>Saccharomyces cerevisiae</i> cells against multiple inhibitors stress. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2207-2221.	3.6	24
93	Simultaneous saccharification and co-fermentation of aqueous ammonia pretreated corn stover with an engineered <i>Saccharomyces cerevisiae</i> SyBE005. <i>Bioresource Technology</i> , 2014, 169, 9-18.	9.6	49
94	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.	3.3	58
95	Metabolomic Analysis Reveals Key Metabolites Related to the Rapid Adaptation of <i>Saccharomyces cerevisiae</i> to Multiple Inhibitors of Furfural, Acetic Acid, and Phenol. <i>OMICS A Journal of Integrative Biology</i> , 2013, 17, 150-159.	2.0	34
96	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.	9.6	67
97	Evaluation of storage methods for the conversion of corn stover biomass to sugars based on steam explosion pretreatment. <i>Bioresource Technology</i> , 2013, 132, 5-15.	9.6	78
98	Effects of biomass particle size on steam explosion pretreatment performance for improving the enzyme digestibility of corn stover. <i>Industrial Crops and Products</i> , 2013, 44, 176-184.	5.2	133
99	Combined Severity during Pretreatment Chemical and Temperature on the Saccharification of Wheat Straw using Acids and Alkalis of Differing Strength. <i>BioResources</i> , 2013, 9, .	1.0	10
100	Optimization of CDT-1 and XYL1 Expression for Balanced Co-Production of Ethanol and Xylitol from Cellobiose and Xylose by Engineered <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2013, 8, e68317.	2.5	34
101	Integrated Phospholipidomics and Transcriptomics Analysis of <i>Saccharomyces cerevisiae</i> with Enhanced Tolerance to a Mixture of Acetic Acid, Furfural, and Phenol. <i>OMICS A Journal of Integrative Biology</i> , 2012, 16, 374-386.	2.0	39
102	Comparative Metabolomic Study of <i>Penicillium chrysogenum</i> During Pilot and Industrial Penicillin Fermentations. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1223-1238.	2.9	14
103	Balance of XYL1 and XYL2 expression in different yeast chassis for improved xylose fermentation. <i>Frontiers in Microbiology</i> , 2012, 3, 355.	3.5	27
104	Comparative lipidomic analysis of <i>Cephalosporium acremonium</i> insights into industrial and pilot fermentations. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 259-269.	2.6	2
105	Mass balance and transformation of corn stover by pretreatment with different dilute organic acids. <i>Bioresource Technology</i> , 2012, 112, 319-326.	9.6	145
106	Transcriptome shifts in response to furfural and acetic acid in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1915-1924.	3.6	109
107	Genome-wide transcriptional analysis of <i>Saccharomyces cerevisiae</i> during industrial bioethanol fermentation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 43-55.	3.0	27
108	Biofuels in China: past, present and future. <i>Biofuels, Bioproducts and Biorefining</i> , 2010, 4, 326-342.	3.7	39

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109	Transcriptome analysis of differential responses of diploid and haploid yeast to ethanol stress. Journal of Biotechnology, 2010, 148, 194-203.	3.8	44
110	Process optimization to convert forage and sweet sorghum bagasse to ethanol based on ammonia fiber expansion (AFEX) pretreatment. Bioresource Technology, 2010, 101, 1285-1292.	9.6	216
111	Metabolome Analysis of Differential Responses of Diploid and Haploid Yeast to Ethanol Stress. OMICS A Journal of Integrative Biology, 2010, 14, 553-561.	2.0	34