Wenyu Lu

List of Publications by Year in descending order

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84 papers	1,878 citations	236925 25 h-index	315739 38 g-index
88 all docs	88 docs citations	88 times ranked	2049 citing authors

#	Article	IF	Citations
1	Hyperbranched Hybridization Chain Reaction for Triggered Signal Amplification and Concatenated Logic Circuits. Angewandte Chemie - International Edition, 2015, 54, 8144-8148.	13.8	144
2	Design, analysis and application of synthetic microbial consortia. Synthetic and Systems Biotechnology, 2016, 1, 109-117.	3.7	87
3	Optimization of a cytochrome P450 oxidation system for enhancing protopanaxadiol production in Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2016, 113, 1787-1795.	3.3	81
4	Heterologous biosynthesis of (+)-nootkatone in unconventional yeast Yarrowia lipolytica. Biochemical Engineering Journal, 2018, 137, 125-131.	3.6	68
5	Production of Triterpene Ginsenoside Compound K in the Non-conventional Yeast Yarrowia lipolytica. Journal of Agricultural and Food Chemistry, 2019, 67, 2581-2588.	5.2	60
6	Production of sesquiterpenoid zerumbone from metabolic engineered Saccharomyces cerevisiae. Metabolic Engineering, 2018, 49, 28-35.	7.0	56
7	Magnetic graphene oxide-supported hemin as peroxidase probe for sensitive detection of thiols in extracts of cancer cells. Biosensors and Bioelectronics, 2014, 57, 110-116.	10.1	51
8	Sensitive and Specific Whole-Cell Biosensor for Arsenic Detection. Applied and Environmental Microbiology, 2019, 85, .	3.1	49
9	Enhancing Saccharomyces cerevisiae reactive oxygen species and ethanol stress tolerance for high-level production of protopanoxadiol. Bioresource Technology, 2017, 227, 308-316.	9.6	48
10	Harnessing Yeast Peroxisomes and Cytosol Acetyl-CoA for Sesquiterpene Î±-Humulene Production. Journal of Agricultural and Food Chemistry, 2020, 68, 1382-1389.	5.2	48
11	Enhanced protopanaxadiol production from xylose by engineered Yarrowia lipolytica. Microbial Cell Factories, 2019, 18, 83.	4.0	47
12	Semicontinuous sophorolipid fermentation using a novel bioreactor with dual ventilation pipes and dual sieveâ€plates coupled with a novel separation system. Microbial Biotechnology, 2018, 11, 455-464.	4.2	46
13	Production of medium chain length polyhydroxyalkanoate from acetate by engineered Pseudomonas putida KT2440. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 793-800.	3.0	43
14	Aptamer-conjugated bio-bar-code Auâ€“Fe3O4 nanoparticles as amplification station for electrochemiluminescence detection of tumor cells. Analytica Chimica Acta, 2014, 837, 44-51.	5.4	41
15	Yarrowia lipolytica construction for heterologous synthesis of Î±-santalene and fermentation optimization. Applied Microbiology and Biotechnology, 2019, 103, 3511-3520.	3.6	38
16	Glycerol improves heterologous biosynthesis of betulinic acid in engineered Yarrowia lipolytica. Chemical Engineering Science, 2019, 196, 82-90.	3.8	37
17	Local hydrodynamics modeling of a gasâ€“liquidâ€“solid threeâ€phase bubble column. AICHE Journal, 2007, 53, 2221-2231.	3.6	35
18	Heterologous biosynthesis of triterpenoid dammarenediol-II in engineered Escherichia coli. Biotechnology Letters, 2016, 38, 603-609.	2.2	35

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19	Biosynthesis of ursolic acid and oleanolic acid in Saccharomyces cerevisiae. AICHE Journal, 2018, 64, 3794-3802.	3.6	35
20	A metabolic-based approach to improve xylose utilization for fumaric acid production from acid pretreated wheat bran by Rhizopus oryzae. Bioresource Technology, 2015, 180, 119-127.	9.6	34
21	Brazilin inhibits fibrillogenesis of human islet amyloid polypeptide, disassembles mature fibrils, and alleviates cytotoxicity. RSC Advances, 2017, 7, 43491-43501.	3.6	33
22	A modular engineering strategy for highâ€level production of protopanaxadiol from ethanol by Saccharomyces cerevisiae. AICHE Journal, 2019, 65, 866-874.	3.6	31
23	Local Hydrodynamics Modeling of a Gasâ^'Liquidâ^'Solid Three-Phase Airlift Loop Reactor. Industrial & Engineering Chemistry Research, 2007, 46, 5210-5220.	3.7	27
24	Gene circuit engineering to improve the performance of a whole-cell lead biosensor. FEMS Microbiology Letters, 2018, 365, .	1.8	27
25	Construction and analysis of an engineered Escherichia coli-Pseudomonas aeruginosa co-culture consortium for phenanthrene bioremoval. Biochemical Engineering Journal, 2019, 148, 214-223.	3.6	27
26	Metabolic engineering of Yarrowia lipolytica for heterologous oleanolic acid production. Chemical Engineering Science, 2020, 218, 115529.	3.8	26
27	Linear light-scattering of gold nanostars for versatile biosensing of nucleic acids and proteins using exonuclease III as biocatalyst to signal amplification. Biosensors and Bioelectronics, 2015, 71, 427-433.	10.1	23
28	Alpha-Terpineol production from an engineered Saccharomyces cerevisiae cell factory. Microbial Cell Factories, 2019, 18, 160.	4.0	23
29	Engineering a Metabolic Pathway for Isobutanol Biosynthesis in Bacillus subtilis. Applied Biochemistry and Biotechnology, 2012, 168, 1-9.	2.9	22
30	Genome-scale reconstruction of a metabolic network for Gluconobacter oxydans 621H. BioSystems, 2014, 117, 10-14.	2.0	20
31	Construction of a â€œnutrition supplyâ€“detoxificationâ€•coculture consortium for medium-chain-length polyhydroxyalkanoate production with a glucoseâ€“xylose mixture. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 343-354.	3.0	20
32	Promotion of compound K production in Saccharomyces cerevisiae by glycerol. Microbial Cell Factories, 2020, 19, 41.	4.0	20
33	Up-regulated spinosad pathway coupling with the increased concentration of acetyl-CoA and malonyl-CoA contributed to the increase of spinosad in the presence of exogenous fatty acid. Biochemical Engineering Journal, 2013, 81, 47-53.	3.6	19
34	Engineering Saccharomyces cerevisiae for Enhanced Production of Protopanaxadiol with Cofermentation of Glucose and Xylose. Journal of Agricultural and Food Chemistry, 2018, 66, 12009-12016.	5.2	19
35	High-titer production of 13R-manoyl oxide in metabolically engineered Saccharomyces cerevisiae. Microbial Cell Factories, 2019, 18, 73.	4.0	19
36	Genome-scale metabolic network reconstruction of Saccharopolyspora spinosa for Spinosad Production improvement. Microbial Cell Factories, 2014, 13, 41.	4.0	18

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37	Distribution of Bacterial Communities in Petroleum-Contaminated Soils from the Dagang Oilfield, China. Transactions of Tianjin University, 2020, 26, 22-32.	6.4	18
38	Hyperbranched Hybridization Chain Reaction for Triggered Signal Amplification and Concatenated Logic Circuits. Angewandte Chemie, 2015, 127, 8262-8266.	2.0	17
39	The composition analysis and preliminary cultivation optimization of a PHA-producing microbial consortium with xylose as a sole carbon source. Waste Management, 2016, 52, 77-85.	7.4	17
40	Biosynthesis of Long-Chain Ï‰-Hydroxy Fatty Acids by Engineered Saccharomyces cerevisiae. Journal of Agricultural and Food Chemistry, 2019, 67, 4545-4552.	5.2	16
41	Display of leadâ€binding proteins on Escherichia coli surface for lead bioremediation. Biotechnology and Bioengineering, 2020, 117, 3820-3834.	3.3	16
42	Surface display of carbonic anhydrase on Escherichia coli for CO2 capture and mineralization. Synthetic and Systems Biotechnology, 2022, 7, 460-473.	3.7	16
43	Heterologous production of levopimaric acid in Saccharomyces cerevisiae. Microbial Cell Factories, 2018, 17, 114.	4.0	15
44	Heterologous biosynthesis of triterpenoid ambrein in engineered Escherichia coli. Biotechnology Letters, 2018, 40, 399-404.	2.2	15
45	Directed evolution of a transcription factor PbrR to improve lead selectivity and reduce zinc interference through dual selection. AMB Express, 2020, 10, 67.	3.0	15
46	Optimization of a Two-Species Microbial Consortium for Improved Mcl-PHA Production From Glucoseâ€“Xylose Mixtures. Frontiers in Bioengineering and Biotechnology, 2021, 9, 794331.	4.1	15
47	Efficient biotransformation of ginsenoside Rb1 to Rd by isolated Aspergillus versicolor, excreting Î²-glucosidase in the spore production phase of solid culture. Antonie Van Leeuwenhoek, 2015, 108, 1117-1127.	1.7	14
48	n-Hexadecane and pyrene biodegradation and metabolization by Rhodococcus sp. T1 isolated from oil contaminated soil. Chinese Journal of Chemical Engineering, 2019, 27, 411-417.	3.5	14
49	Recent advances in constructing artificial microbial consortia for the production of medium-chain-length polyhydroxyalkanoates. World Journal of Microbiology and Biotechnology, 2021, 37, 2.	3.6	14
50	Construction of cadmium whole-cell biosensors and circuit amplification. Applied Microbiology and Biotechnology, 2021, 105, 5689-5699.	3.6	14
51	Purification of high strength wastewater originating from bioethanol production with simultaneous biogas production. World Journal of Microbiology and Biotechnology, 2011, 27, 2711-2722.	3.6	13
52	Modeling for batch phenol biodegradation with immobilizedAlcaligenes faecalis. AICHE Journal, 2006, 52, 1294-1303.	3.6	12
53	D-lactic acid production by a genetically engineered strain Corynebacterium glutamicum. World Journal of Microbiology and Biotechnology, 2011, 27, 2117-2124.	3.6	12
54	Kinetic Analysis and Modeling of Daptomycin Batch Fermentation by Streptomyces roseosporus. Applied Biochemistry and Biotechnology, 2011, 163, 453-462.	2.9	12

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55	MicroRNA-29b-3p Inhibits the Migration and Invasion of Gastric Cancer Cells by Regulating the Autophagy-Associated Protein MAZ. OncoTargets and Therapy, 2021, Volume 14, 3239-3249.	2.0	12
56	Highly Sensitive Whole-Cell Biosensor for Cadmium Detection Based on a Negative Feedback Circuit. Frontiers in Bioengineering and Biotechnology, 2021, 9, 799781.	4.1	11
57	Modular Engineering of the Flavin Pathway in Escherichia coli for Improved Flavin Mononucleotide and Flavin Adenine Dinucleotide Production. Journal of Agricultural and Food Chemistry, 2019, 67, 6532-6540.	5.2	10
58	Artificial Consortium of Three E. coli BL21 Strains with Synergistic Functional Modules for Complete Phenanthrene Degradation. ACS Synthetic Biology, 2022, 11, 162-175.	3.8	10
59	Modeling for local dynamic behaviors of phenol biodegradation in bubble columns. AICHE Journal, 2006, 52, 2864-2875.	3.6	9
60	Enhancement of daptomycin production in Streptomyces roseosporus LC-51 by manipulation of cofactors concentration in the fermentation culture. World Journal of Microbiology and Biotechnology, 2011, 27, 1859-1868.	3.6	7
61	Metabolomics analysis of the effect of dissolved oxygen on spinosad production by Saccharopolyspora spinosa. Antonie Van Leeuwenhoek, 2017, 110, 677-685.	1.7	7
62	Optimization of mediumâ€chainâ€length polyhydroxyalkanoate production by Pseudomonas putida KT2440 from coâ€metabolism of glycerol and octanoate. Canadian Journal of Chemical Engineering, 2021, 99, 657-666.	1.7	7
63	Progress in heterologous biosynthesis of forskolin. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	3.0	7
64	Protective effects and mechanism of coenzyme Q10 and vitamin C on doxorubicin-induced gastric mucosal injury and effects of intestinal flora. Korean Journal of Physiology and Pharmacology, 2021, 25, 261-272.	1.2	6
65	Construction and optimization of Saccharomyces cerevisiae for synthesizing forskolin. Applied Microbiology and Biotechnology, 2022, 106, 1933-1944.	3.6	6
66	Insight into yeast: A study model of lipid metabolism and terpenoid biosynthesis. Biotechnology and Applied Biochemistry, 2015, 62, 323-328.	3.1	5
67	Research of 1,3-Dihydroxyacetone Production by Overexpressing Glycerol Transporter and Glycerol Dehydrogenase. Transactions of Tianjin University, 2019, 25, 549-558.	6.4	5
68	An Improved Analysis Method for Organic Rankine Cycles Based on Radial-Inflow Turbine Efficiency Prediction. Applied Sciences (Switzerland), 2019, 9, 49.	2.5	5
69	A four-microorganism three-step fermentation process for producing medium-chain-length polyhydroxyalkanoate from starch. 3 Biotech, 2020, 10, 352.	2.2	5
70	Engineering Corynebacterium glutamicum for Geraniol Production. Transactions of Tianjin University, 2021, 27, 377-384.	6.4	5
71	Biosynthesis of Soyasapogenol B by Engineered Saccharomyces cerevisiae. Applied Biochemistry and Biotechnology, 2021, 193, 3202-3213.	2.9	5
72	Metabolic Engineering of Saccharomyces cerevisiae for Heterologous Carnosic Acid Production. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	5

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73	Engineering Pseudomonas putida To Produce Rhamnolipid Biosurfactants for Promoting Phenanthrene Biodegradation by a Two-Species Microbial Consortium. Microbiology Spectrum, 2022, 10, .	3.0	4
74	Selection of reference genes in Saccharopolyspora spinosa for real-time PCR. Transactions of Tianjin University, 2015, 21, 461-467.	6.4	3
75	The Combinatorial Biosynthesis of â€œUnnaturalâ€•Products with Polyketides. Transactions of Tianjin University, 2018, 24, 501-512.	6.4	3
76	Stepwise increase in the production of 13R-manoyl oxide through metabolic engineering of Saccharomyces cerevisiae. Biochemical Engineering Journal, 2019, 144, 73-80.	3.6	3
77	Modelling of phenol biodegradation by Candida tropicalis immobilised in alginate gel beads. Canadian Journal of Chemical Engineering, 2011, 89, 1566-1574.	1.7	2
78	Fed-Batch Fermentation for Spinosad Production in an Improved Reactor. Transactions of Tianjin University, 2017, 23, 530-537.	6.4	2
79	Isolation of Secondary Metabolites with Antimicrobial Activities from Bacillus amyloliquefaciens LWYZ003. Transactions of Tianjin University, 2019, 25, 38-44.	6.4	2
80	Screening Differential Hub Genes Related with the Hypoglycemic Effect of Quercetin Through Data Mining. Current Bioinformatics, 2021, 16, 1152-1160.	1.5	2
81	Molecular simulation of pyrroloquinoline quinine-dependent glycerol dehydrogenase inGluconobacter oxydans. Molecular Simulation, 2012, 38, 1010-1014.	2.0	1
82	Biochemical engineering in China. Reviews in Chemical Engineering, 2019, 35, 929-993.	4.4	1
83	Suitable extracellular oxidoreduction potential inhibit. Microbial Cell Factories, 2014, 13, 98.	4.0	1
84	Biosynthesis of valerenic acid by engineered Saccharomyces cerevisiae. Biotechnology Letters, 2022, 44, 857-865.	2.2	0