

# Wenyu Lu

## List of Publications by Citations

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80  
papers

1,184  
citations

21  
h-index

30  
g-index

88  
ext. papers

1,566  
ext. citations

4.6  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
80	Hyperbranched Hybridization Chain Reaction for Triggered Signal Amplification and Concatenated Logic Circuits. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8144-8	16.4	106
79	Design, analysis and application of synthetic microbial consortia. <i>Synthetic and Systems Biotechnology</i> , <b>2016</b> , 1, 109-117	4.2	62
78	Optimization of a cytochrome P450 oxidation system for enhancing protopanaxadiol production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 1787-95	4.9	58
77	Magnetic graphene oxide-supported hemin as peroxidase probe for sensitive detection of thiols in extracts of cancer cells. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 57, 110-6	11.8	48
76	Heterologous biosynthesis of (+)-nootkatone in unconventional yeast <i>Yarrowia lipolytica</i> . <i>Biochemical Engineering Journal</i> , <b>2018</b> , 137, 125-131	4.2	48
75	Production of Triterpene Ginsenoside Compound K in the Non-conventional Yeast <i>Yarrowia lipolytica</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 2581-2588	5.7	40
74	Aptamer-conjugated bio-bar-code Au-Fe <sub>3</sub> O <sub>4</sub> nanoparticles as amplification station for electrochemiluminescence detection of tumor cells. <i>Analytica Chimica Acta</i> , <b>2014</b> , 837, 44-51	6.6	36
73	Semicontinuous sophorolipid fermentation using a novel bioreactor with dual ventilation pipes and dual sieve-plates coupled with a novel separation system. <i>Microbial Biotechnology</i> , <b>2018</b> , 11, 455-464	6.3	34
72	Enhancing <i>Saccharomyces cerevisiae</i> reactive oxygen species and ethanol stress tolerance for high-level production of protopanaxadiol. <i>Bioresource Technology</i> , <b>2017</b> , 227, 308-316	11	31
71	Production of sesquiterpenoid zerumbone from metabolic engineered <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , <b>2018</b> , 49, 28-35	9.7	31
70	Local hydrodynamics modeling of a gas-liquid-solid three-phase bubble column. <i>AIChE Journal</i> , <b>2007</b> , 53, 2221-2231	3.6	31
69	Sensitive and Specific Whole-Cell Biosensor for Arsenic Detection. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	30
68	A metabolic-based approach to improve xylose utilization for fumaric acid production from acid pretreated wheat bran by <i>Rhizopus oryzae</i> . <i>Bioresource Technology</i> , <b>2015</b> , 180, 119-27	11	30
67	Glycerol improves heterologous biosynthesis of betulinic acid in engineered <i>Yarrowia lipolytica</i> . <i>Chemical Engineering Science</i> , <b>2019</b> , 196, 82-90	4.4	28
66	Enhanced protopanaxadiol production from xylose by engineered <i>Yarrowia lipolytica</i> . <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 83	6.4	27
65	Brazilin inhibits fibrillogenesis of human islet amyloid polypeptide, disassembles mature fibrils, and alleviates cytotoxicity. <i>RSC Advances</i> , <b>2017</b> , 7, 43491-43501	3.7	25
64	Heterologous biosynthesis of triterpenoid dammarenediol-II in engineered <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , <b>2016</b> , 38, 603-9	3	24

63	Yarrowia lipolytica construction for heterologous synthesis of Bantalone and fermentation optimization. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 3511-3520	5.7	23
62	Linear light-scattering of gold nanostars for versatile biosensing of nucleic acids and proteins using exonuclease III as biocatalyst to signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 71, 427-433	11.8	22
61	Local Hydrodynamics Modeling of a Gas-Liquid-Solid Three-Phase Airlift Loop Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 5210-5220	3.9	22
60	Harnessing Yeast Peroxisomes and Cytosol Acetyl-CoA for Sesquiterpene $\beta$ -Humulene Production. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 1382-1389	5.7	21
59	Production of medium chain length polyhydroxyalkanoate from acetate by engineered Pseudomonas putida KT2440. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2019</b> , 46, 793-800	4.2	18
58	Engineering a metabolic pathway for isobutanol biosynthesis in Bacillus subtilis. <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 168, 1-9	3.2	18
57	The composition analysis and preliminary cultivation optimization of a PHA-producing microbial consortium with xylose as a sole carbon source. <i>Waste Management</i> , <b>2016</b> , 52, 77-85	8.6	15
56	Gene circuit engineering to improve the performance of a whole-cell lead biosensor. <i>FEMS Microbiology Letters</i> , <b>2018</b> , 365,	2.9	15
55	Biosynthesis of ursolic acid and oleanolic acid in Saccharomyces cerevisiae. <i>AIChE Journal</i> , <b>2018</b> , 64, 3794-3802	5.3	15
54	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. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 81, 47-53	4.2	15
53	Hyperbranched Hybridization Chain Reaction for Triggered Signal Amplification and Concatenated Logic Circuits. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8262-8266	3.6	14
52	Genome-scale metabolic network reconstruction of Saccharopolyspora spinosa for spinosad production improvement. <i>Microbial Cell Factories</i> , <b>2014</b> , 13, 41	6.4	14
51	Biosynthesis of Long-Chain $\beta$ -Hydroxy Fatty Acids by Engineered Saccharomyces cerevisiae. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 4545-4552	5.7	12
50	Heterologous production of levopimaric acid in Saccharomyces cerevisiae. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 114	6.4	12
49	Genome-scale reconstruction of a metabolic network for Gluconobacter oxydans 621H. <i>BioSystems</i> , <b>2014</b> , 117, 10-4	1.9	12
48	Alpha-Terpineol production from an engineered Saccharomyces cerevisiae cell factory. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 160	6.4	11
47	High-titer production of 13R-manoyl oxide in metabolically engineered Saccharomyces cerevisiae. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 73	6.4	11
46	Metabolic engineering of Yarrowia lipolytica for heterologous oleanolic acid production. <i>Chemical Engineering Science</i> , <b>2020</b> , 218, 115529	4.4	11

45	D-lactic acid production by a genetically engineered strain <i>Corynebacterium glutamicum</i> . <i>World Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 27, 2117-2124	4.4	11
44	Purification of high strength wastewater originating from bioethanol production with simultaneous biogas production. <i>World Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 27, 2711-2722	4.4	11
43	Kinetic analysis and modeling of daptomycin batch fermentation by <i>Streptomyces roseosporus</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 163, 453-62	3.2	11
42	A modular engineering strategy for high-level production of protopanaxadiol from ethanol by <i>Saccharomyces cerevisiae</i> . <i>AIChE Journal</i> , <b>2019</b> , 65, 866-874	3.6	11
41	Promotion of compound K production in <i>Saccharomyces cerevisiae</i> by glycerol. <i>Microbial Cell Factories</i> , <b>2020</b> , 19, 41	6.4	10
40	Modeling for batch phenol biodegradation with immobilized <i>Alcaligenes faecalis</i> . <i>AIChE Journal</i> , <b>2006</b> , 52, 1294-1303	3.6	10
39	Heterologous biosynthesis of triterpenoid ambrein in engineered <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , <b>2018</b> , 40, 399-404	3	9
38	n-Hexadecane and pyrene biodegradation and metabolization by <i>Rhodococcus</i> sp. T1 isolated from oil contaminated soil. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 411-417	3.2	9
37	Engineering <i>Saccharomyces cerevisiae</i> for Enhanced Production of Protopanaxadiol with Cofermentation of Glucose and Xylose. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 12009-12016	5.7	9
36	Construction and analysis of an engineered <i>Escherichia coli</i> - <i>Pseudomonas aeruginosa</i> co-culture consortium for phenanthrene bioremoval. <i>Biochemical Engineering Journal</i> , <b>2019</b> , 148, 214-223	4.2	8
35	Construction of a "nutrition supply-detoxification" coculture consortium for medium-chain-length polyhydroxyalkanoate production with a glucose-xylose mixture. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2020</b> , 47, 343-354	4.2	8
34	Metabolomics analysis of the effect of dissolved oxygen on spinosad production by <i>Saccharopolyspora spinosa</i> . <i>Antonie Van Leeuwenhoek</i> , <b>2017</b> , 110, 677-685	2.1	7
33	Modeling for local dynamic behaviors of phenol biodegradation in bubble columns. <i>AIChE Journal</i> , <b>2006</b> , 52, 2864-2875	3.6	7
32	Distribution of Bacterial Communities in Petroleum-Contaminated Soils from the Dagang Oilfield, China. <i>Transactions of Tianjin University</i> , <b>2020</b> , 26, 22-32	2.9	7
31	Construction of cadmium whole-cell biosensors and circuit amplification. <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 5689-5699	5.7	7
30	Recent advances in constructing artificial microbial consortia for the production of medium-chain-length polyhydroxyalkanoates. <i>World Journal of Microbiology and Biotechnology</i> , <b>2021</b> , 37, 2	4.4	6
29	Insight into yeast: A study model of lipid metabolism and terpenoid biosynthesis. <i>Biotechnology and Applied Biochemistry</i> , <b>2015</b> , 62, 323-8	2.8	5
28	Efficient biotransformation of ginsenoside Rb1 to Rd by isolated <i>Aspergillus versicolor</i> , excreting $\beta$ -glucosidase in the spore production phase of solid culture. <i>Antonie Van Leeuwenhoek</i> , <b>2015</b> , 108, 1117-27 <sup>1</sup>	2.7 <sup>1</sup>	5

27	Enhancement of daptomycin production in <i>Streptomyces roseosporus</i> LC-51 by manipulation of cofactors concentration in the fermentation culture. <i>World Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 27, 1859-1868	4.4	5
26	An Improved Analysis Method for Organic Rankine Cycles Based on Radial-Inflow Turbine Efficiency Prediction. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 49	2.6	4
25	Directed evolution of a transcription factor PbrR to improve lead selectivity and reduce zinc interference through dual selection. <i>AMB Express</i> , <b>2020</b> , 10, 67	4.1	4
24	Display of lead-binding proteins on <i>Escherichia coli</i> surface for lead bioremediation. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3820-3834	4.9	4
23	Research of 1,3-Dihydroxyacetone Production by Overexpressing Glycerol Transporter and Glycerol Dehydrogenase. <i>Transactions of Tianjin University</i> , <b>2019</b> , 25, 549-558	2.9	3
22	Modular Engineering of the Flavin Pathway in <i>Escherichia coli</i> for Improved Flavin Mononucleotide and Flavin Adenine Dinucleotide Production. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 6532-6540	5.7	3
21	Selection of reference genes in <i>Saccharopolyspora spinosa</i> for real-time PCR. <i>Transactions of Tianjin University</i> , <b>2015</b> , 21, 461-467	2.9	3
20	The Combinatorial Biosynthesis of Unnatural Products with Polyketides. <i>Transactions of Tianjin University</i> , <b>2018</b> , 24, 501-512	2.9	3
19	A four-microorganism three-step fermentation process for producing medium-chain-length polyhydroxyalkanoate from starch. <i>3 Biotech</i> , <b>2020</b> , 10, 352	2.8	3
18	Biosynthesis of Soyasapogenol B by Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2021</b> , 193, 3202-3213	3.2	3
17	Optimization of medium-chain-length polyhydroxyalkanoate production by <i>Pseudomonas putida</i> KT2440 from co-metabolism of glycerol and octanoate. <i>Canadian Journal of Chemical Engineering</i> , <b>2021</b> , 99, 657-666	2.3	3
16	Highly Sensitive Whole-Cell Biosensor for Cadmium Detection Based on a Negative Feedback Circuit.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 799781	5.8	3
15	Fed-Batch Fermentation for Spinosad Production in an Improved Reactor. <i>Transactions of Tianjin University</i> , <b>2017</b> , 23, 530-537	2.9	2
14	Stepwise increase in the production of 13R-manoyl oxide through metabolic engineering of <i>Saccharomyces cerevisiae</i> . <i>Biochemical Engineering Journal</i> , <b>2019</b> , 144, 73-80	4.2	2
13	Modelling of phenol biodegradation by <i>Candida tropicalis</i> immobilised in alginate gel beads. <i>Canadian Journal of Chemical Engineering</i> , <b>2011</b> , 89, 1566-1574	2.3	2
12	A Study of Potential SARS-CoV-2 Antiviral Drugs and Preliminary Research of Their Molecular Mechanism, Based on Anti-SARS-CoV Drug Screening and Molecular Dynamics Simulation. <i>Journal of Computational Biology</i> , <b>2020</b> ,	1.7	2
11	MicroRNA-29b-3p Inhibits the Migration and Invasion of Gastric Cancer Cells by Regulating the Autophagy-Associated Protein MAZ. <i>OncoTargets and Therapy</i> , <b>2021</b> , 14, 3239-3249	4.4	2
10	Protective effects and mechanism of coenzyme Q10 and vitamin C on doxorubicin-induced gastric mucosal injury and effects of intestinal flora. <i>Korean Journal of Physiology and Pharmacology</i> , <b>2021</b> , 25, 261-272	1.8	2

9	Isolation of Secondary Metabolites with Antimicrobial Activities from <i>Bacillus amyloliquefaciens</i> LWYZ003. <i>Transactions of Tianjin University</i> , <b>2019</b> , 25, 38-44	2.9	2
8	Progress in heterologous biosynthesis of forskolin. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2021</b> , 48,	4.2	2
7	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , <b>2019</b> , 35, 929-993	5	1
6	Engineering <i>Corynebacterium glutamicum</i> for Geraniol Production. <i>Transactions of Tianjin University</i> , <b>2020</b> , 27, 377	2.9	1
5	Molecular simulation of pyrroloquinoline quinine-dependent glycerol dehydrogenase in <i>Gluconobacter oxydans</i> . <i>Molecular Simulation</i> , <b>2012</b> , 38, 1010-1014	2	1
4	Optimization of a Two-Species Microbial Consortium for Improved Mcl-PHA Production From Glucose-Xylose Mixtures.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 794331	5.8	1
3	Screening Differential Hub Genes Related with the Hypoglycemic Effect of Quercetin through Data Mining. <i>Current Bioinformatics</i> , <b>2021</b> , 16,	4.7	1
2	Surface display of carbonic anhydrase on for CO capture and mineralization.. <i>Synthetic and Systems Biotechnology</i> , <b>2022</b> , 7, 460-473	4.2	0
1	Construction and optimization of <i>Saccharomyces cerevisiae</i> for synthesizing forskolin.. <i>Applied Microbiology and Biotechnology</i> , <b>2022</b> , 106, 1933	5.7	0