

Wenyu Lu

List of Publications by Year in descending order

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84
papers

1,878
citations

236612

25
h-index

315357

38
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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. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8144-8148.	7.2	144
2	Design, analysis and application of synthetic microbial consortia. <i>Synthetic and Systems Biotechnology</i> , 2016, 1, 109-117.	1.8	87
3	Optimization of a cytochrome P450 oxidation system for enhancing protopanaxadiol production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 1787-1795.	1.7	81
4	Heterologous biosynthesis of (+)-nootkatone in unconventional yeast <i>Yarrowia lipolytica</i> . <i>Biochemical Engineering Journal</i> , 2018, 137, 125-131.	1.8	68
5	Production of Triterpene Ginsenoside Compound K in the Non-conventional Yeast <i>Yarrowia lipolytica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 2581-2588.	2.4	60
6	Production of sesquiterpenoid zerumbone from metabolic engineered <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2018, 49, 28-35.	3.6	56
7	Magnetic graphene oxide-supported hemin as peroxidase probe for sensitive detection of thiols in extracts of cancer cells. <i>Biosensors and Bioelectronics</i> , 2014, 57, 110-116.	5.3	51
8	Sensitive and Specific Whole-Cell Biosensor for Arsenic Detection. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	49
9	Enhancing <i>Saccharomyces cerevisiae</i> reactive oxygen species and ethanol stress tolerance for high-level production of protopanaxadiol. <i>Bioresource Technology</i> , 2017, 227, 308-316.	4.8	48
10	Harnessing Yeast Peroxisomes and Cytosol Acetyl-CoA for Sesquiterpene \pm -Humulene Production. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1382-1389.	2.4	48
11	Enhanced protopanaxadiol production from xylose by engineered <i>Yarrowia lipolytica</i> . <i>Microbial Cell Factories</i> , 2019, 18, 83.	1.9	47
12	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> , 2018, 11, 455-464.	2.0	46
13	Production of medium chain length polyhydroxyalkanoate from acetate by engineered <i>Pseudomonas putida</i> KT2440. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 793-800.	1.4	43
14	Aptamer-conjugated bio-bar-code Au@Fe ₃ O ₄ nanoparticles as amplification station for electrochemiluminescence detection of tumor cells. <i>Analytica Chimica Acta</i> , 2014, 837, 44-51.	2.6	41
15	<i>Yarrowia lipolytica</i> construction for heterologous synthesis of \pm -santalene and fermentation optimization. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3511-3520.	1.7	38
16	Glycerol improves heterologous biosynthesis of betulinic acid in engineered <i>Yarrowia lipolytica</i> . <i>Chemical Engineering Science</i> , 2019, 196, 82-90.	1.9	37
17	Local hydrodynamics modeling of a gas-liquid-solid three-phase bubble column. <i>AIChE Journal</i> , 2007, 53, 2221-2231.	1.8	35
18	Heterologous biosynthesis of triterpenoid dammarenediol-II in engineered <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2016, 38, 603-609.	1.1	35

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19	Biosynthesis of ursolic acid and oleanolic acid in <i>Saccharomyces cerevisiae</i> . <i>AIChE Journal</i> , 2018, 64, 3794-3802.	1.8	35
20	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> , 2015, 180, 119-127.	4.8	34
21	Brazilin inhibits fibrillogenesis of human islet amyloid polypeptide, disassembles mature fibrils, and alleviates cytotoxicity. <i>RSC Advances</i> , 2017, 7, 43491-43501.	1.7	33
22	A modular engineering strategy for high-level production of protopanaxadiol from ethanol by <i>Saccharomyces cerevisiae</i> . <i>AIChE Journal</i> , 2019, 65, 866-874.	1.8	31
23	Local Hydrodynamics Modeling of a Gas-Liquid-Solid Three-Phase Airlift Loop Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 5210-5220.	1.8	27
24	Gene circuit engineering to improve the performance of a whole-cell lead biosensor. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	27
25	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> , 2019, 148, 214-223.	1.8	27
26	Metabolic engineering of <i>Yarrowia lipolytica</i> for heterologous oleanolic acid production. <i>Chemical Engineering Science</i> , 2020, 218, 115529.	1.9	26
27	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> , 2015, 71, 427-433.	5.3	23
28	Alpha-Terpineol production from an engineered <i>Saccharomyces cerevisiae</i> cell factory. <i>Microbial Cell Factories</i> , 2019, 18, 160.	1.9	23
29	Engineering a Metabolic Pathway for Isobutanol Biosynthesis in <i>Bacillus subtilis</i> . <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1-9.	1.4	22
30	Genome-scale reconstruction of a metabolic network for <i>Gluconobacter oxydans</i> 621H. <i>BioSystems</i> , 2014, 117, 10-14.	0.9	20
31	Construction of a "co-nutrition supply" detoxification co-culture consortium for medium-chain-length polyhydroxyalkanoate production with a glucose-xylose mixture. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 343-354.	1.4	20
32	Promotion of compound K production in <i>Saccharomyces cerevisiae</i> by glycerol. <i>Microbial Cell Factories</i> , 2020, 19, 41.	1.9	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. <i>Biochemical Engineering Journal</i> , 2013, 81, 47-53.	1.8	19
34	Engineering <i>Saccharomyces cerevisiae</i> for Enhanced Production of Protopanaxadiol with Cofermentation of Glucose and Xylose. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 12009-12016.	2.4	19
35	High-titer production of 13R-manoyl oxide in metabolically engineered <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2019, 18, 73.	1.9	19
36	Genome-scale metabolic network reconstruction of <i>Saccharopolyspora spinosa</i> for Spinosad Production improvement. <i>Microbial Cell Factories</i> , 2014, 13, 41.	1.9	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.	3.3	18
38	Hyperbranched Hybridization Chain Reaction for Triggered Signal Amplification and Concatenated Logic Circuits. Angewandte Chemie, 2015, 127, 8262-8266.	1.6	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.	3.7	17
40	Biosynthesis of Long-Chain ω -Hydroxy Fatty Acids by Engineered <i>Saccharomyces cerevisiae</i> . Journal of Agricultural and Food Chemistry, 2019, 67, 4545-4552.	2.4	16
41	Display of lead-binding proteins on <i>Escherichia coli</i> surface for lead bioremediation. Biotechnology and Bioengineering, 2020, 117, 3820-3834.	1.7	16
42	Surface display of carbonic anhydrase on <i>Escherichia coli</i> for CO ₂ capture and mineralization. Synthetic and Systems Biotechnology, 2022, 7, 460-473.	1.8	16
43	Heterologous production of levopimaric acid in <i>Saccharomyces cerevisiae</i> . Microbial Cell Factories, 2018, 17, 114.	1.9	15
44	Heterologous biosynthesis of triterpenoid ambrein in engineered <i>Escherichia coli</i> . Biotechnology Letters, 2018, 40, 399-404.	1.1	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.	1.4	15
46	Optimization of a Two-Species Microbial Consortium for Improved Mcl-PHA Production From Glucose-Xylose Mixtures. Frontiers in Bioengineering and Biotechnology, 2021, 9, 794331.	2.0	15
47	Efficient biotransformation of ginsenoside Rb1 to Rd by isolated <i>Aspergillus versicolor</i> , excreting β -glucosidase in the spore production phase of solid culture. Antonie Van Leeuwenhoek, 2015, 108, 1117-1127.	0.7	14
48	n-Hexadecane and pyrene biodegradation and metabolization by <i>Rhodococcus</i> sp. T1 isolated from oil contaminated soil. Chinese Journal of Chemical Engineering, 2019, 27, 411-417.	1.7	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.	1.7	14
50	Construction of cadmium whole-cell biosensors and circuit amplification. Applied Microbiology and Biotechnology, 2021, 105, 5689-5699.	1.7	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.	1.7	13
52	Modeling for batch phenol biodegradation with immobilized <i>Alcaligenes faecalis</i> . AIChE Journal, 2006, 52, 1294-1303.	1.8	12
53	D-lactic acid production by a genetically engineered strain <i>Corynebacterium glutamicum</i> . World Journal of Microbiology and Biotechnology, 2011, 27, 2117-2124.	1.7	12
54	Kinetic Analysis and Modeling of Daptomycin Batch Fermentation by <i>Streptomyces roseosporus</i> . Applied Biochemistry and Biotechnology, 2011, 163, 453-462.	1.4	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. <i>OncoTargets and Therapy</i> , 2021, Volume 14, 3239-3249.	1.0	12
56	Highly Sensitive Whole-Cell Biosensor for Cadmium Detection Based on a Negative Feedback Circuit. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 799781.	2.0	11
57	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> , 2019, 67, 6532-6540.	2.4	10
58	Artificial Consortium of Three <i>E. coli</i> BL21 Strains with Synergistic Functional Modules for Complete Phenanthrene Degradation. <i>ACS Synthetic Biology</i> , 2022, 11, 162-175.	1.9	10
59	Modeling for local dynamic behaviors of phenol biodegradation in bubble columns. <i>AIChE Journal</i> , 2006, 52, 2864-2875.	1.8	9
60	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> , 2011, 27, 1859-1868.	1.7	7
61	Metabolomics analysis of the effect of dissolved oxygen on spinosad production by <i>Saccharopolyspora spinosa</i> . <i>Antonie Van Leeuwenhoek</i> , 2017, 110, 677-685.	0.7	7
62	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> , 2021, 99, 657-666.	0.9	7
63	Progress in heterologous biosynthesis of forskolin. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2021, 48, .	1.4	7
64	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> , 2021, 25, 261-272.	0.6	6
65	Construction and optimization of <i>Saccharomyces cerevisiae</i> for synthesizing forskolin. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1933-1944.	1.7	6
66	Insight into yeast: A study model of lipid metabolism and terpenoid biosynthesis. <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 323-328.	1.4	5
67	Research of 1,3-Dihydroxyacetone Production by Overexpressing Glycerol Transporter and Glycerol Dehydrogenase. <i>Transactions of Tianjin University</i> , 2019, 25, 549-558.	3.3	5
68	An Improved Analysis Method for Organic Rankine Cycles Based on Radial-Inflow Turbine Efficiency Prediction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 49.	1.3	5
69	A four-microorganism three-step fermentation process for producing medium-chain-length polyhydroxyalkanoate from starch. <i>3 Biotech</i> , 2020, 10, 352.	1.1	5
70	Engineering <i>Corynebacterium glutamicum</i> for Geraniol Production. <i>Transactions of Tianjin University</i> , 2021, 27, 377-384.	3.3	5
71	Biosynthesis of Soyasapogenol B by Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 3202-3213.	1.4	5
72	Metabolic Engineering of <i>Saccharomyces cerevisiae</i> for Heterologous Carnosic Acid Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	5

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73	Engineering <i>Pseudomonas putida</i> To Produce Rhamnolipid Biosurfactants for Promoting Phenanthrene Biodegradation by a Two-Species Microbial Consortium. <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	4
74	Selection of reference genes in <i>Saccharopolyspora spinosa</i> for real-time PCR. <i>Transactions of Tianjin University</i> , 2015, 21, 461-467.	3.3	3
75	The Combinatorial Biosynthesis of "Unnatural" Products with Polyketides. <i>Transactions of Tianjin University</i> , 2018, 24, 501-512.	3.3	3
76	Stepwise increase in the production of 13R-manoyl oxide through metabolic engineering of <i>Saccharomyces cerevisiae</i> . <i>Biochemical Engineering Journal</i> , 2019, 144, 73-80.	1.8	3
77	Modelling of phenol biodegradation by <i>Candida tropicalis</i> immobilised in alginate gel beads. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 1566-1574.	0.9	2
78	Fed-Batch Fermentation for Spinosad Production in an Improved Reactor. <i>Transactions of Tianjin University</i> , 2017, 23, 530-537.	3.3	2
79	Isolation of Secondary Metabolites with Antimicrobial Activities from <i>Bacillus amyloliquefaciens</i> LWYZ003. <i>Transactions of Tianjin University</i> , 2019, 25, 38-44.	3.3	2
80	Screening Differential Hub Genes Related with the Hypoglycemic Effect of Quercetin Through Data Mining. <i>Current Bioinformatics</i> , 2021, 16, 1152-1160.	0.7	2
81	Molecular simulation of pyrroloquinoline quinine-dependent glycerol dehydrogenase in <i>Gluconobacter oxydans</i> . <i>Molecular Simulation</i> , 2012, 38, 1010-1014.	0.9	1
82	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993.	2.3	1
83	Suitable extracellular oxidoreduction potential inhibit. <i>Microbial Cell Factories</i> , 2014, 13, 98.	1.9	1
84	Biosynthesis of valerenic acid by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2022, 44, 857-865.	1.1	0