

# 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  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2049  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Surface display of carbonic anhydrase on <i>Escherichia coli</i> for CO <sub>2</sub> capture and mineralization. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 460-473.  | 1.8 | 16        |
| 2  | Construction and optimization of <i>Saccharomyces cerevisiae</i> for synthesizing forskolin. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1933-1944.   | 1.7 | 6         |
| 3  | 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        |
| 4  | Metabolic Engineering of <i>Saccharomyces cerevisiae</i> for Heterologous Carnosic Acid Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .   | 2.0 | 5         |
| 5  | 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         |
| 6  | Biosynthesis of valerenic acid by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2022, 44, 857-865.   | 1.1 | 0         |
| 7  | Engineering <i>Corynebacterium glutamicum</i> for Geraniol Production. <i>Transactions of Tianjin University</i> , 2021, 27, 377-384.  | 3.3 | 5         |
| 8  | 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         |
| 9  | Recent advances in constructing artificial microbial consortia for the production of medium-chain-length polyhydroxyalkanoates. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 2.                      | 1.7 | 14        |
| 10 | Progress in heterologous biosynthesis of forskolin. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2021, 48, .  | 1.4 | 7         |
| 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> , 2021, Volume 14, 3239-3249.                               | 1.0 | 12        |
| 12 | Biosynthesis of Soyasapogenol B by Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 3202-3213.  | 1.4 | 5         |
| 13 | Construction of cadmium whole-cell biosensors and circuit amplification. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5689-5699.   | 1.7 | 14        |
| 14 | 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         |
| 15 | 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         |
| 16 | Optimization of a Two-Species Microbial Consortium for Improved Mcl-PHA Production From Glucose-Xylose Mixtures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 794331.                                   | 2.0 | 15        |
| 17 | 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        |
| 18 | Distribution of Bacterial Communities in Petroleum-Contaminated Soils from the Dagang Oilfield, China. <i>Transactions of Tianjin University</i> , 2020, 26, 22-32.  | 3.3 | 18        |

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|----|---|-----|-----------|
| 19 | 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         |
| 20 | Display of lead-binding proteins on <i>Escherichia coli</i> surface for lead bioremediation. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3820-3834.  | 1.7 | 16        |
| 21 | Construction of a "nutrient supply" detoxification-coculture 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        |
| 22 | Promotion of compound K production in <i>Saccharomyces cerevisiae</i> by glycerol. <i>Microbial Cell Factories</i> , 2020, 19, 41.  | 1.9 | 20        |
| 23 | Metabolic engineering of <i>Yarrowia lipolytica</i> for heterologous oleanolic acid production. <i>Chemical Engineering Science</i> , 2020, 218, 115529.  | 1.9 | 26        |
| 24 | Harnessing Yeast Peroxisomes and Cytosol Acetyl-CoA for Sesquiterpene $\beta$ -Humulene Production. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1382-1389.  | 2.4 | 48        |
| 25 | Directed evolution of a transcription factor PbrR to improve lead selectivity and reduce zinc interference through dual selection. <i>AMB Express</i> , 2020, 10, 67.   | 1.4 | 15        |
| 26 | 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> , 2019, 27, 411-417.   | 1.7 | 14        |
| 27 | 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         |
| 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 | 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         |
| 30 | 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        |
| 31 | Enhanced protopanaxadiol production from xylose by engineered <i>Yarrowia lipolytica</i> . <i>Microbial Cell Factories</i> , 2019, 18, 83.  | 1.9 | 47        |
| 32 | 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        |
| 33 | 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        |
| 34 | Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993.   | 2.3 | 1         |
| 35 | <i>Yarrowia lipolytica</i> construction for heterologous synthesis of $\beta$ -santalene and fermentation optimization. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3511-3520.   | 1.7 | 38        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | Sensitive and Specific Whole-Cell Biosensor for Arsenic Detection. <i>Applied and Environmental Microbiology</i> , 2019, 85, .  | 1.4 | 49        |
| 38 | Biosynthesis of Long-Chain $\gamma$ -Hydroxy Fatty Acids by Engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4545-4552.                               | 2.4 | 16        |
| 39 | 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         |
| 40 | 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        |
| 41 | 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        |
| 42 | 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        |
| 43 | 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         |
| 44 | The Combinatorial Biosynthesis of "Unnatural" Products with Polyketides. <i>Transactions of Tianjin University</i> , 2018, 24, 501-512.   | 3.3 | 3         |
| 45 | 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        |
| 46 | 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        |
| 47 | Heterologous biosynthesis of (+)-nootkatone in unconventional yeast <i>Yarrowia lipolytica</i> . <i>Biochemical Engineering Journal</i> , 2018, 137, 125-131.   | 1.8 | 68        |
| 48 | Gene circuit engineering to improve the performance of a whole-cell lead biosensor. <i>FEMS Microbiology Letters</i> , 2018, 365, .   | 0.7 | 27        |
| 49 | Biosynthesis of ursolic acid and oleanolic acid in <i>Saccharomyces cerevisiae</i> . <i>AIChE Journal</i> , 2018, 64, 3794-3802.  | 1.8 | 35        |
| 50 | Heterologous production of levopimaric acid in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2018, 17, 114.   | 1.9 | 15        |
| 51 | Production of sesquiterpenoid zerumbone from metabolic engineered <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2018, 49, 28-35.   | 3.6 | 56        |
| 52 | Heterologous biosynthesis of triterpenoid ambrein in engineered <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2018, 40, 399-404.   | 1.1 | 15        |
| 53 | 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         |
| 54 | Fed-Batch Fermentation for Spinosad Production in an Improved Reactor. <i>Transactions of Tianjin University</i> , 2017, 23, 530-537.   | 3.3 | 2         |

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|----|--|-----|-----------|
| 55 | 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        |
| 56 | 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        |
| 57 | 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        |
| 58 | Design, analysis and application of synthetic microbial consortia. <i>Synthetic and Systems Biotechnology</i> , 2016, 1, 109-117.  | 1.8 | 87        |
| 59 | Heterologous biosynthesis of triterpenoid dammarenediol-II in engineered <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2016, 38, 603-609.   | 1.1 | 35        |
| 60 | The composition analysis and preliminary cultivation optimization of a PHA-producing microbial consortium with xylose as a sole carbon source. <i>Waste Management</i> , 2016, 52, 77-85.  | 3.7 | 17        |
| 61 | 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       |
| 62 | Hyperbranched Hybridization Chain Reaction for Triggered Signal Amplification and Concatenated Logic Circuits. <i>Angewandte Chemie</i> , 2015, 127, 8262-8266.  | 1.6 | 17        |
| 63 | 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        |
| 64 | 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         |
| 65 | 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        |
| 66 | 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> , 2015, 108, 1117-1127. | 0.7 | 14        |
| 67 | 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         |
| 68 | 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        |
| 69 | Genome-scale reconstruction of a metabolic network for <i>Gluconobacter oxydans</i> 621H. <i>BioSystems</i> , 2014, 117, 10-14.  | 0.9 | 20        |
| 70 | 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        |
| 71 | 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> , 2014, 837, 44-51.                      | 2.6 | 41        |
| 72 | Suitable extracellular oxidoreduction potential inhibit. <i>Microbial Cell Factories</i> , 2014, 13, 98.   | 1.9 | 1         |

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|----|--|-----|-----------|
| 73 | 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        |
| 74 | 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        |
| 75 | Molecular simulation of pyrroloquinoline quinine-dependent glycerol dehydrogenase in <i>Glucanobacter oxydans</i> . <i>Molecular Simulation</i> , 2012, 38, 1010-1014.   | 0.9 | 1         |
| 76 | 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         |
| 77 | D-lactic acid production by a genetically engineered strain <i>Corynebacterium glutamicum</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2117-2124.  | 1.7 | 12        |
| 78 | Purification of high strength wastewater originating from bioethanol production with simultaneous biogas production. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2711-2722.   | 1.7 | 13        |
| 79 | Kinetic Analysis and Modeling of Daptomycin Batch Fermentation by <i>Streptomyces roseosporus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 453-462.  | 1.4 | 12        |
| 80 | 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         |
| 81 | Local Hydrodynamics Modeling of a Gas-Liquid-Solid Three-Phase Airlift Loop Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 5210-5220.   | 1.8 | 27        |
| 82 | Local hydrodynamics modeling of a gas-liquid-solid three-phase bubble column. <i>AIChE Journal</i> , 2007, 53, 2221-2231.  | 1.8 | 35        |
| 83 | Modeling for batch phenol biodegradation with immobilized <i>Alcaligenes faecalis</i> . <i>AIChE Journal</i> , 2006, 52, 1294-1303.  | 1.8 | 12        |
| 84 | Modeling for local dynamic behaviors of phenol biodegradation in bubble columns. <i>AIChE Journal</i> , 2006, 52, 2864-2875.   | 1.8 | 9         |