Yu Wang

List of Publications by Year in Descending Order

61 papers	1,618 citations	24 h-index	39 g-index
70 ext. papers	2,133 ext. citations	6.9 avg, IF	4.8 L-index

#	Paper	IF	Citations
61	Developing Synthetic Methylotrophs by Metabolic Engineering-Guided Adaptive Laboratory Evolution.. *Advances in Biochemical Engineering/Biotechnology*, **2022**, 1	1.7	
60	CRISPR-assisted rational flux-tuning and arrayed CRISPRi screening of an L-proline exporter for L-proline hyperproduction.. *Nature Communications*, **2022**, 13, 891	17.4	2
59	Evaluation of Aspergillus niger Six Constitutive Strong Promoters by Fluorescent-Auxotrophic Selection Coupled with Flow Cytometry: A Case for Citric Acid Production. *Journal of Fungi (Basel, Switzerland)*, **2022**, 8, 568	5.6	0
58	Transcriptome analysis reveals the roles of nitrogen metabolism and sedoheptulose bisphosphatase pathway in methanol-dependent growth of Corynebacterium glutamicum. *Microbial Biotechnology*, **2021**, 14, 1797-1808	6.3	2
57	Isoleucyl-tRNA synthetase mutant based whole-cell biosensor for high-throughput selection of isoleucine overproducers. *Biosensors and Bioelectronics*, **2021**, 172, 112783	11.8	4
56	Microbial Base Editing: A Powerful Emerging Technology for Microbial Genome Engineering. *Trends in Biotechnology*, **2021**, 39, 165-180	15.1	17
55	Promoting Lignin Valorization by Coping with Toxic C1 Byproducts. *Trends in Biotechnology*, **2021**, 39, 331-335	15.1	4
54	In-situ generation of large numbers of genetic combinations for metabolic reprogramming via CRISPR-guided base editing. *Nature Communications*, **2021**, 12, 678	17.4	15
53	Development of a Hyperosmotic Stress Inducible Gene Expression System by Engineering the MtrA/MtrB-Dependent Promoter in. *Frontiers in Microbiology*, **2021**, 12, 718511	5.7	1
52	Directed Evolution and Rational Design of Mechanosensitive Channel MscCG2 for Improved Glutamate Excretion Efficiency.. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 15660-15669	5.7	1
51	Efficient Multiplex Gene Repression by CRISPR-dCpf1 in. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 357	5.8	10
50	Adaptive laboratory evolution enhances methanol tolerance and conversion in engineered Corynebacterium glutamicum. *Communications Biology*, **2020**, 3, 217	6.7	24
49	CRISPR-dCas9 Mediated Cytosine Deaminase Base Editing in. *ACS Synthetic Biology*, **2020**, 9, 1781-1789	5.7	16
48	Efficient bioproduction of 5-aminolevulinic acid, a promising biostimulant and nutrient, from renewable bioresources by engineered. *Biotechnology for Biofuels*, **2020**, 13, 41	7.8	18
47	Synthetic Methylotrophy: A Practical Solution for Methanol-Based Biomanufacturing. *Trends in Biotechnology*, **2020**, 38, 650-666	15.1	24
46	Strategies for Developing CRISPR-Based Gene Editing Methods in Bacteria. *Small Methods*, **2020**, 4, 1900568	10.8	10
45	Cytosine Base Editor (hA3A-BE3-NG)-Mediated Multiple Gene Editing for Pyramid Breeding in Pigs. *Frontiers in Genetics*, **2020**, 11, 592623	4.5	7

44	CRISPR/Cas13d-Mediated Microbial RNA Knockdown. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 856	5.8	8
43	A Highly Efficient CRISPR-Cas9-Based Genome Engineering Platform in Acinetobacter baumannii to Understand the HO-Sensing Mechanism of OxyR. *Cell Chemical Biology*, **2019**, 26, 1732-1742.e5	8.2	20
42	Metabolic engineering of Corynebacterium glutamicum by synthetic small regulatory RNAs. *Journal of Industrial Microbiology and Biotechnology*, **2019**, 46, 203-208	4.2	23
41	Enhancing 5-aminolevulinic acid tolerance and production by engineering the antioxidant defense system of Escherichia coli. *Biotechnology and Bioengineering*, **2019**, 116, 2018-2028	4.9	19
40	Expanding targeting scope, editing window, and base transition capability of base editing in Corynebacterium glutamicum. *Biotechnology and Bioengineering*, **2019**, 116, 3016-3029	4.9	25
39	A Novel Corynebacterium glutamicum l-Glutamate Exporter. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	32
38	MACBETH: Multiplex automated Corynebacterium glutamicum base editing method. *Metabolic Engineering*, **2018**, 47, 200-210	9.7	85
37	Engineering Corynebacterium glutamicum for methanol-dependent growth and glutamate production. *Metabolic Engineering*, **2018**, 49, 220-231	9.7	59
36	CRISPR/Cas9-based Genome Editing in Pseudomonas aeruginosa and Cytidine Deaminase-Mediated Base Editing in Pseudomonas Species. *IScience*, **2018**, 6, 222-231	6.1	82
35	Comprehensive optimization of the metabolomic methodology for metabolite profiling of Corynebacterium glutamicum. *Applied Microbiology and Biotechnology*, **2018**, 102, 7113-7121	5.7	6
34	CRISPR/Cas9-mediated ssDNA Recombineering in. *Bio-protocol*, **2018**, 8, e3038	0.9	1
33	Engineering Artificial Fusion Proteins for Enhanced Methanol Bioconversion. *ChemBioChem*, **2018**, 19, 2465-2471	3.8	16
32	Mutations in Peptidoglycan Synthesis Gene Improve Electrotransformation Efficiency of ATCC 13869. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	5
31	CRISPR-Cas9 and CRISPR-Assisted Cytidine Deaminase Enable Precise and Efficient Genome Editing in Klebsiella pneumoniae. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	53
30	Coordination of metabolic pathways: Enhanced carbon conservation in 1,3-propanediol production by coupling with optically pure lactate biosynthesis. *Metabolic Engineering*, **2017**, 41, 102-114	9.7	37
29	Development of a CRISPR/Cas9 genome editing toolbox for Corynebacterium glutamicum. *Microbial Cell Factories*, **2017**, 16, 205	6.4	68
28	Switch of metabolic status: redirecting metabolic flux for acetoin production from glycerol by activating a silent glycerol catabolism pathway. *Metabolic Engineering*, **2017**, 39, 90-101	9.7	20
27	Biological conversion of methanol by evolved Escherichia coli carrying a linear methanol assimilation pathway. *Bioresources and Bioprocessing*, **2017**, 4,	5.2	21

26	Co-utilization of glycerol and lignocellulosic hydrolysates enhances anaerobic 1,3-propanediol production by Clostridium diolis. *Scientific Reports*, **2016**, 6, 19044	4.9	40
25	A photoautotrophic platform for the sustainable production of valuable plant natural products from CO2. *Green Chemistry*, **2016**, 18, 3537-3548	10	15
24	Production of C3 platform chemicals from CO2 by genetically engineered cyanobacteria. *Green Chemistry*, **2015**, 17, 3100-3110	10	31
23	Genome Sequence of Lactobacillus curieae CCTCC M 2011381T, a Novel Producer of Gamma-aminobutyric Acid. *Genome Announcements*, **2015**, 3,		3
22	Metabolic engineering of Enterobacter cloacae for high-yield production of enantiopure (2R,3R)-2,3-butanediol from lignocellulose-derived sugars. *Metabolic Engineering*, **2015**, 28, 19-27	9.7	96
21	Metabolic engineering of Escherichia coli for production of (2S,3S)-butane-2,3-diol from glucose. *Biotechnology for Biofuels*, **2015**, 8, 143	7.8	25
20	Enhancing the light-driven production of D-lactate by engineering cyanobacterium using a combinational strategy. *Scientific Reports*, **2015**, 5, 9777	4.9	38
19	Glycerol dehydrogenase plays a dual role in glycerol metabolism and 2,3-butanediol formation in Klebsiella pneumoniae. *Journal of Biological Chemistry*, **2014**, 289, 6080-90	5.4	51
18	Efficient simultaneous saccharification and fermentation of inulin to 2,3-butanediol by thermophilic Bacillus licheniformis ATCC 14580. *Applied and Environmental Microbiology*, **2014**, 80, 6458-64	4.8	40
17	Genome Sequence of Bacillus cereus Strain A1, an Efficient Starch-Utilizing Producer of Hydrogen. *Genome Announcements*, **2014**, 2,		12
16	Genome Sequence of a Promising Hydrogen-Producing Facultative Anaerobic Bacterium, Brevundimonas naejangsanensis Strain B1. *Genome Announcements*, **2014**, 2,		7
15	Genome Sequence of meso-2,3-Butanediol-Producing Strain Serratia marcescens ATCC 14041. *Genome Announcements*, **2014**, 2,		5
14	Genome Sequence of Thermophilic Bacillus licheniformis Strain 3F-3, an Efficient Pentose-Utilizing Producer of 2,3-Butanediol. *Genome Announcements*, **2014**, 2,		3
13	Production of (3S)-acetoin from diacetyl by using stereoselective NADPH-dependent carbonyl reductase and glucose dehydrogenase. *Bioresource Technology*, **2013**, 137, 111-5	11	43
12	A newly isolated Bacillus licheniformis strain thermophilically produces 2,3-butanediol, a platform and fuel bio-chemical. *Biotechnology for Biofuels*, **2013**, 6, 123	7.8	80
11	Genome Sequence of Clostridium diolis Strain DSM 15410, a Promising Natural Producer of 1,3-Propanediol. *Genome Announcements*, **2013**, 1,		6
10	Genome Sequence of Klebsiella pneumoniae Strain ATCC 25955, an Oxygen-Insensitive Producer of 1,3-Propanediol. *Genome Announcements*, **2013**, 1,		2
9	Engineering of cofactor regeneration enhances (2S,3S)-2,3-butanediol production from diacetyl. *Scientific Reports*, **2013**, 3, 2643	4.9	49

8	Genome Sequence of Clostridium butyricum Strain DSM 10702, a Promising Producer of Biofuels and Biochemicals. *Genome Announcements*, **2013**, 1,		6
7	Biocatalytic production of (2S,3S)-2,3-butanediol from diacetyl using whole cells of engineered Escherichia coli. *Bioresource Technology*, **2012**, 115, 111-6	11	57
6	Genome sequences of two thermophilic Bacillus licheniformis strains, efficient producers of platform chemical 2,3-butanediol. *Journal of Bacteriology*, **2012**, 194, 4133-4	3.5	14
5	Genome sequence of Klebsiella pneumoniae LZ, a potential platform strain for 1,3-propanediol production. *Journal of Bacteriology*, **2012**, 194, 4457-8	3.5	6
4	Genome Sequence of Klebsiella pneumoniae LZ, a Potential Platform Strain for 1,3-Propanediol Production. *Journal of Bacteriology*, **2012**, 194, 6017-6017	3.5	78
3	Efficient 2,3-butanediol production from cassava powder by a crop-biomass-utilizer, Enterobacter cloacae subsp. dissolvens SDM. *PLoS ONE*, **2012**, 7, e40442	3.7	41
2	Production of (2S,3S)-2,3-butanediol and (3S)-acetoin from glucose using resting cells of Klebsiella pneumonia and Bacillus subtilis. *Bioresource Technology*, **2011**, 102, 10741-4	11	54
1	Production of 2,3-butanediol from corncob molasses, a waste by-product in xylitol production. *Applied Microbiology and Biotechnology*, **2010**, 87, 965-70	5.7	79