Yu Wang

List of Publications by Year
in descending order

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64 papers	2,423 citations	136740 32 h-index	214527 47 g-index
70 all docs	70 docs citations	70 times ranked	2061 citing authors

#	Article	IF	Citations
1	Engineering synthetic auxotrophs for growth-coupled directed protein evolution. Trends in Biotechnology, 2022, 40, 773-776.	4.9	12
2	Developing Synthetic Methylotrophs by Metabolic Engineering-Guided Adaptive Laboratory Evolution. Advances in Biochemical Engineering/Biotechnology, 2022, , 1.	0.6	0
3	CRISPR-assisted rational flux-tuning and arrayed CRISPRi screening of an l-proline exporter for l-proline hyperproduction. Nature Communications, 2022, 13, 891.	5.8	39
4	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,) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.5	12
5	Isoleucyl-tRNA synthetase mutant based whole-cell biosensor for high-throughput selection of isoleucine overproducers. Biosensors and Bioelectronics, 2021, 172, 112783.	5.3	16
6	Microbial Base Editing: A Powerful Emerging Technology for Microbial Genome Engineering. Trends in Biotechnology, 2021, 39, 165-180.	4.9	42
7	Promoting Lignin Valorization by Coping with Toxic C1 Byproducts. Trends in Biotechnology, 2021, 39, 331-335.	4.9	9
8	In-situ generation of large numbers of genetic combinations for metabolic reprogramming via CRISPR-guided base editing. Nature Communications, 2021, 12, 678.	5.8	44
9	Transcriptome analysis reveals the roles of nitrogen metabolism and sedoheptulose bisphosphatase pathway in methanolâ€dependent growth of Corynebacterium glutamicum. Microbial Biotechnology, 2021, 14, 1797-1808.	2.0	6
10	Development of a Hyperosmotic Stress Inducible Gene Expression System by Engineering the MtrA/MtrB-Dependent NCgl1418 Promoter in Corynebacterium glutamicum. Frontiers in Microbiology, 2021, 12, 718511.	1.5	6
11	Editorial: Bioconversion and Biorefinery of C1 Compounds. Frontiers in Microbiology, 2021, 12, 778962.	1.5	1
12	Directed Evolution and Rational Design of Mechanosensitive Channel MscCG2 for Improved Glutamate Excretion Efficiency. Journal of Agricultural and Food Chemistry, 2021, 69, 15660-15669.	2.4	2
13	Synthetic Methylotrophy: A Practical Solution for Methanol-Based Biomanufacturing. Trends in Biotechnology, 2020, 38, 650-666.	4.9	56
14	Strategies for Developing CRISPRâ€Based Gene Editing Methods in Bacteria. Small Methods, 2020, 4, 1900560.	4.6	19
15	Cytosine Base Editor (hA3A-BE3-NG)-Mediated Multiple Gene Editing for Pyramid Breeding in Pigs. Frontiers in Genetics, 2020, 11, 592623.	1.1	12
16	CRISPR/Cas13d-Mediated Microbial RNA Knockdown. Frontiers in Bioengineering and Biotechnology, 2020, 8, 856.	2.0	19
17	Efficient Multiplex Gene Repression by CRISPR-dCpf1 in Corynebacterium glutamicum. Frontiers in Bioengineering and Biotechnology, 2020, 8, 357.	2.0	33
18	Adaptive laboratory evolution enhances methanol tolerance and conversion in engineered Corynebacterium glutamicum. Communications Biology, 2020, 3, 217.	2.0	52

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19	CRISPR-dCas9 Mediated Cytosine Deaminase Base Editing in Bacillus subtilis. ACS Synthetic Biology, 2020, 9, 1781-1789.	1.9	38
20	Efficient bioproduction of 5-aminolevulinic acid, a promising biostimulant and nutrient, from renewable bioresources by engineered Corynebacterium glutamicum. Biotechnology for Biofuels, 2020, 13, 41.	6.2	39
21	Expanding targeting scope, editing window, and base transition capability of base editing in Corynebacterium glutamicum. Biotechnology and Bioengineering, 2019, 116, 3016-3029.	1.7	42
22	Front Cover Image, Volume 116, Number 11, November 2019. Biotechnology and Bioengineering, 2019, 116, i.	1.7	0
23	A Highly Efficient CRISPR-Cas9-Based Genome Engineering Platform in Acinetobacter baumannii to Understand the H2O2-Sensing Mechanism of OxyR. Cell Chemical Biology, 2019, 26, 1732-1742.e5.	2.5	55
24	Metabolic engineering of Corynebacterium glutamicum by synthetic small regulatory RNAs. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 203-208.	1.4	39
25	Enhancing 5â€aminolevulinic acid tolerance and production by engineering the antioxidant defense system of Escherichia coli. Biotechnology and Bioengineering, 2019, 116, 2018-2028.	1.7	36
26	A Novel Corynebacterium glutamicum <scp>l</scp> -Glutamate Exporter. Applied and Environmental Microbiology, 2018, 84, .	1.4	49
27	MACBETH: Multiplex automated Corynebacterium glutamicum base editing method. Metabolic Engineering, 2018, 47, 200-210.	3.6	139
28	Engineering Artificial Fusion Proteins for Enhanced Methanol Bioconversion. ChemBioChem, 2018, 19, 2465-2471.	1.3	30
29	Mutations in Peptidoglycan Synthesis Gene ponA Improve Electrotransformation Efficiency of Corynebacterium glutamicum ATCC 13869. Applied and Environmental Microbiology, 2018, 84, .	1.4	7
30	CRISPR-Cas9 and CRISPR-Assisted Cytidine Deaminase Enable Precise and Efficient Genome Editing in Klebsiella pneumoniae. Applied and Environmental Microbiology, 2018, 84, .	1.4	113
31	Engineering Corynebacterium glutamicum for methanol-dependent growth and glutamate production. Metabolic Engineering, 2018, 49, 220-231.	3.6	95
32	CRISPR/Cas9-based Genome Editing in Pseudomonas aeruginosa and Cytidine Deaminase-Mediated Base Editing in Pseudomonas Species. IScience, 2018, 6, 222-231.	1.9	142
33	Comprehensive optimization of the metabolomic methodology for metabolite profiling of Corynebacterium glutamicum. Applied Microbiology and Biotechnology, 2018, 102, 7113-7121.	1.7	13
34	CRISPR/Cas9-mediated ssDNA Recombineering in Corynebacterium glutamicum. Bio-protocol, 2018, 8, e3038.	0.2	1
35	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.	3.6	46
36	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.	3.6	36

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37	Biological conversion of methanol by evolved Escherichia coli carrying a linear methanol assimilation pathway. Bioresources and Bioprocessing, 2017, 4, .	2.0	35
38	Development of a CRISPR/Cas9 genome editing toolbox for Corynebacterium glutamicum. Microbial Cell Factories, 2017, 16, 205.	1.9	103
39	Co-utilization of glycerol and lignocellulosic hydrolysates enhances anaerobic 1,3-propanediol production by Clostridium diolis. Scientific Reports, 2016, 6, 19044.	1.6	57
40	A photoautotrophic platform for the sustainable production of valuable plant natural products from CO₂. Green Chemistry, 2016, 18, 3537-3548.	4.6	26
41	Metabolic engineering of Escherichia coli for production of (2S,3S)-butane-2,3-diol from glucose. Biotechnology for Biofuels, 2015, 8, 143.	6.2	41
42	Enhancing the light-driven production of d-lactate by engineering cyanobacterium using a combinational strategy. Scientific Reports, 2015, 5, 9777.	1.6	49
43	Production of C3 platform chemicals from CO₂ by genetically engineered cyanobacteria. Green Chemistry, 2015, 17, 3100-3110.	4.6	46
44	Genome Sequence of Lactobacillus curieae CCTCC M 2011381 ^T , a Novel Producer of Gamma-aminobutyric Acid. Genome Announcements, 2015, 3, .	0.8	7
45	Metabolic engineering of Enterobacter cloacae for high-yield production of enantiopure (2 R ,3 R) Tj ETQq1 1 0.784314 rgBT /Overloc	3.6	117
46	Genome Sequence of Bacillus cereus Strain A1, an Efficient Starch-Utilizing Producer of Hydrogen. Genome Announcements, 2014, 2, .	0.8	13
47	Genome Sequence of a Promising Hydrogen-Producing Facultative Anaerobic Bacterium, Brevundimonas naejangsanensis Strain B1. Genome Announcements, 2014, 2, .	0.8	10
48	Genome Sequence of meso -2,3-Butanediol-Producing Strain Serratia marcescens ATCC 14041. Genome Announcements, 2014, 2, .	0.8	6
49	Genome Sequence of Thermophilic Bacillus licheniformis Strain 3F-3, an Efficient Pentose-Utilizing Producer of 2,3-Butanediol. Genome Announcements, 2014, 2, .	0.8	3
50	Glycerol Dehydrogenase Plays a Dual Role in Glycerol Metabolism and 2,3-Butanediol Formation in Klebsiella pneumoniae. Journal of Biological Chemistry, 2014, 289, 6080-6090.	1.6	63
51	Efficient Simultaneous Saccharification and Fermentation of Inulin to 2,3-Butanediol by Thermophilic Bacillus licheniformis ATCC 14580. Applied and Environmental Microbiology, 2014, 80, 6458-6464.	1.4	48
52	Production of (3S)-acetoin from diacetyl by using stereoselective NADPH-dependent carbonyl reductase and glucose dehydrogenase. Bioresource Technology, 2013, 137, 111-115.	4.8	46
53	A newly isolated Bacillus licheniformisstrain thermophilically produces 2,3-butanediol, a platform and fuel bio-chemical. Biotechnology for Biofuels, 2013, 6, 123.	6.2	87
54	Genome Sequence of Clostridium diolis Strain DSM 15410, a Promising Natural Producer of 1,3-Propanediol. Genome Announcements, 2013, 1, .	0.8	6

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55	Genome Sequence of Klebsiella pneumoniae Strain ATCC 25955, an Oxygen-Insensitive Producer of 1,3-Propanediol. Genome Announcements, 2013, 1, .	0.8	3
56	Engineering of cofactor regeneration enhances (2S,3S)-2,3-butanediol production from diacetyl. Scientific Reports, 2013, 3, 2643.	1.6	63
57	Genome Sequence of Clostridium butyricum Strain DSM 10702, a Promising Producer of Biofuels and Biochemicals. Genome Announcements, 2013, 1, .	0.8	9
58	Genome Sequences of Two Thermophilic Bacillus licheniformis Strains, Efficient Producers of Platform Chemical 2,3-Butanediol. Journal of Bacteriology, 2012, 194, 4133-4134.	1.0	16
59	Genome Sequence of Klebsiella pneumoniae LZ, a Potential Platform Strain for 1,3-Propanediol Production. Journal of Bacteriology, 2012, 194, 4457-4458.	1.0	7
60	Biocatalytic production of (2S,3S)-2,3-butanediol from diacetyl using whole cells of engineered Escherichia coli. Bioresource Technology, 2012, 115, 111-116.	4.8	66
61	Efficient 2,3-Butanediol Production from Cassava Powder by a Crop-Biomass-Utilizer, Enterobacter cloacae subsp. dissolvens SDM. PLoS ONE, 2012, 7, e40442.	1.1	42
62	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, 10741-10744.	4.8	63
63	Production of 2,3-butanediol from corncob molasses, a waste by-product in xylitol production. Applied Microbiology and Biotechnology, 2010, 87, 965-970.	1.7	90
64	Editorial: Engineering Corynebacterium glutamicum Chassis for Synthetic Biology, Biomanufacturing, and Bioremediation. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	0