Yu Wang

List of Publications by Year
in descending order

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	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
2	MACBETH: Multiplex automated Corynebacterium glutamicum base editing method. Metabolic Engineering, 2018, 47, 200-210.	3.6	139
3	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
4	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
5	Development of a CRISPR/Cas9 genome editing toolbox for Corynebacterium glutamicum. Microbial Cell Factories, 2017, 16, 205.	1.9	103
6	Engineering Corynebacterium glutamicum for methanol-dependent growth and glutamate production. Metabolic Engineering, 2018, 49, 220-231.	3.6	95
7	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
8	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
9	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
10	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
11	Engineering of cofactor regeneration enhances (2S,3S)-2,3-butanediol production from diacetyl. Scientific Reports, 2013, 3, 2643.	1.6	63
12	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
13	Co-utilization of glycerol and lignocellulosic hydrolysates enhances anaerobic 1,3-propanediol production by Clostridium diolis. Scientific Reports, 2016, 6, 19044.	1.6	57
14	Synthetic Methylotrophy: A Practical Solution for Methanol-Based Biomanufacturing. Trends in Biotechnology, 2020, 38, 650-666.	4.9	56
15	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
16	Adaptive laboratory evolution enhances methanol tolerance and conversion in engineered Corynebacterium glutamicum. Communications Biology, 2020, 3, 217.	2.0	52
17	Enhancing the light-driven production of d-lactate by engineering cyanobacterium using a combinational strategy. Scientific Reports, 2015, 5, 9777.	1.6	49
18	A Novel Corynebacterium glutamicum <scp>l</scp> -Glutamate Exporter. Applied and Environmental Microbiology, 2018, 84, .	1.4	49

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19	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
20	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
21	Production of C3 platform chemicals from CO₂ by genetically engineered cyanobacteria. Green Chemistry, 2015, 17, 3100-3110.	4.6	46
22	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
23	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
24	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
25	Microbial Base Editing: A Powerful Emerging Technology for Microbial Genome Engineering. Trends in Biotechnology, 2021, 39, 165-180.	4.9	42
26	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
27	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
28	Metabolic engineering of Corynebacterium glutamicum by synthetic small regulatory RNAs. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 203-208.	1.4	39
29	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
30	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
31	CRISPR-dCas9 Mediated Cytosine Deaminase Base Editing in Bacillus subtilis. ACS Synthetic Biology, 2020, 9, 1781-1789.	1.9	38
32	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
33	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
34	Biological conversion of methanol by evolved Escherichia coli carrying a linear methanol assimilation pathway. Bioresources and Bioprocessing, 2017, 4, .	2.0	35
35	Efficient Multiplex Gene Repression by CRISPR-dCpf1 in Corynebacterium glutamicum. Frontiers in Bioengineering and Biotechnology, 2020, 8, 357.	2.0	33
36	Engineering Artificial Fusion Proteins for Enhanced Methanol Bioconversion. ChemBioChem, 2018, 19, 2465-2471.	1.3	30

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37	A photoautotrophic platform for the sustainable production of valuable plant natural products from CO₂. Green Chemistry, 2016, 18, 3537-3548.	4.6	26
38	Strategies for Developing CRISPRâ€Based Gene Editing Methods in Bacteria. Small Methods, 2020, 4, 1900560.	4.6	19
39	CRISPR/Cas13d-Mediated Microbial RNA Knockdown. Frontiers in Bioengineering and Biotechnology, 2020, 8, 856.	2.0	19
40	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
41	Isoleucyl-tRNA synthetase mutant based whole-cell biosensor for high-throughput selection of isoleucine overproducers. Biosensors and Bioelectronics, 2021, 172, 112783.	5.3	16
42	Genome Sequence of Bacillus cereus Strain A1, an Efficient Starch-Utilizing Producer of Hydrogen. Genome Announcements, 2014, 2, .	0.8	13
43	Comprehensive optimization of the metabolomic methodology for metabolite profiling of Corynebacterium glutamicum. Applied Microbiology and Biotechnology, 2018, 102, 7113-7121.	1.7	13
44	Cytosine Base Editor (hA3A-BE3-NG)-Mediated Multiple Gene Editing for Pyramid Breeding in Pigs. Frontiers in Genetics, 2020, 11, 592623.	1.1	12
45	Engineering synthetic auxotrophs for growth-coupled directed protein evolution. Trends in Biotechnology, 2022, 40, 773-776.	4.9	12
46	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	11
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 Clostridium butyricum Strain DSM 10702, a Promising Producer of Biofuels and Biochemicals. Genome Announcements, 2013, 1, .	0.8	9
49	Promoting Lignin Valorization by Coping with Toxic C1 Byproducts. Trends in Biotechnology, 2021, 39, 331-335.	4.9	9
50	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
51	Genome Sequence of Lactobacillus curieae CCTCC M 2011381 ^T , a Novel Producer of Gamma-aminobutyric Acid. Genome Announcements, 2015, 3, .	0.8	7
52	Mutations in Peptidoglycan Synthesis Gene ponA Improve Electrotransformation Efficiency of Corynebacterium glutamicum ATCC 13869. Applied and Environmental Microbiology, 2018, 84, .	1.4	7
53	Genome Sequence of Clostridium diolis Strain DSM 15410, a Promising Natural Producer of 1,3-Propanediol. Genome Announcements, 2013, 1, .	0.8	6
54	Genome Sequence of meso -2,3-Butanediol-Producing Strain Serratia marcescens ATCC 14041. Genome Announcements, 2014, 2, .	0.8	6

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55	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
56	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
57	Genome Sequence of Klebsiella pneumoniae Strain ATCC 25955, an Oxygen-Insensitive Producer of 1,3-Propanediol. Genome Announcements, 2013, 1, .	0.8	3
58	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
59	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
60	CRISPR/Cas9-mediated ssDNA Recombineering in Corynebacterium glutamicum. Bio-protocol, 2018, 8, e3038.	0.2	1
61	Editorial: Bioconversion and Biorefinery of C1 Compounds. Frontiers in Microbiology, 2021, 12, 778962.	1.5	1
62	Front Cover Image, Volume 116, Number 11, November 2019. Biotechnology and Bioengineering, 2019, 116, i.	1.7	0
63	Developing Synthetic Methylotrophs by Metabolic Engineering-Guided Adaptive Laboratory Evolution. Advances in Biochemical Engineering/Biotechnology, 2022, , 1.	0.6	0
64	Editorial: Engineering Corynebacterium glutamicum Chassis for Synthetic Biology, Biomanufacturing, and Bioremediation. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	0