Wen-Hai Xiao

List of Publications by Year
in descending order

45 papers	3,062 citations	304743 22 h-index	223800 46 g-index
46 all docs	46 docs citations	46 times ranked	3072 citing authors

#	Article	IF	Citations
1	Isoprenoid Pathway Optimization for Taxol Precursor Overproduction in Escherichia coli. Science, 2010, 330, 70-74.	12.6	1,426
2	Bug mapping and fitness testing of chemically synthesized chromosome X. Science, 2017, 355, .	12.6	173
3	Lycopene overproduction in Saccharomyces cerevisiae through combining pathway engineering with host engineering. Microbial Cell Factories, 2016, 15, 113.	4.0	158
4	Manipulation of GES and ERG20 for geraniol overproduction in Saccharomyces cerevisiae. Metabolic Engineering, 2017, 41, 57-66.	7.0	138
5	Heterozygous diploid and interspecies SCRaMbLEing. Nature Communications, 2018, 9, 1934.	12.8	82
6	In vitro DNA SCRaMbLE. Nature Communications, 2018, 9, 1935.	12.8	81
7	Astaxanthin overproduction in yeast by strain engineering and new gene target uncovering. Biotechnology for Biofuels, 2018, 11, 230.	6.2	77
8	Biosynthesis of odd-chain fatty alcohols in Escherichia coli. Metabolic Engineering, 2015, 29, 113-123.	7.0	67
9	Heterologous biosynthesis and manipulation of alkanes in Escherichia coli. Metabolic Engineering, 2016, 38, 19-28.	7.0	66
10	Comparative metabolomic analysis on industrial continuous and batch ethanol fermentation processes by GC-TOF-MS. Metabolomics, 2009, 5, 229-238.	3.0	60
11	Enhanced astaxanthin production in yeast via combined mutagenesis and evolution. Biochemical Engineering Journal, 2020, 156, 107519.	3.6	57
12	Engineering of Î²-carotene hydroxylase and ketolase for astaxanthin overproduction in Saccharomyces cerevisiae. Frontiers of Chemical Science and Engineering, 2017, 11, 89-99.	4.4	45
13	Multiâ€modular engineering of Saccharomyces cerevisiae for highâ€titre production of tyrosol and salidroside. Microbial Biotechnology, 2021, 14, 2605-2616.	4.2	40
14	Rapid and Efficient CRISPR/Cas9-Based Mating-Type Switching of Saccharomyces cerevisiae. G3: Genes, Genomes, Genetics, 2018, 8, 173-183.	1.8	39
15	Heterologous biosynthesis and manipulation of crocetin in Saccharomyces cerevisiae. Microbial Cell Factories, 2017, 16, 54.	4.0	38
16	Engineering Saccharomyces cerevisiae for geranylgeraniol overproduction by combinatorial design. Scientific Reports, 2017, 7, 14991.	3.3	37
17	Engineering Yarrowia lipolytica for Campesterol Overproduction. PLoS ONE, 2016, 11, e0146773.	2.5	34
18	Chassis and key enzymes engineering for monoterpenes production. Biotechnology Advances, 2017, 35, 1022-1031.	11.7	33

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19	Metabolic engineering of Saccharomyces cerevisiae for 7-dehydrocholesterol overproduction. Biotechnology for Biofuels, 2018, 11, 192.	6.2	33
20	Transcriptome analysis reveals novel enzymes for apo-carotenoid biosynthesis in saffron and allows construction of a pathway for crocetin synthesis in yeast. Journal of Experimental Botany, 2019, 70, 4819-4834.	4.8	33
21	Alleviating Redox Imbalance Enhances 7-Dehydrocholesterol Production in Engineered Saccharomyces cerevisiae. PLoS ONE, 2015, 10, e0130840.	2.5	30
22	Improved campesterol production in engineered Yarrowia lipolytica strains. Biotechnology Letters, 2017, 39, 1033-1039.	2.2	28
23	De novo leaf and root transcriptome analysis to explore biosynthetic pathway of Celangulin V in Celastrus angulatus maxim. BMC Genomics, 2019, 20, 7.	2.8	26
24	Loss of heterozygosity by SCRaMbLEing. Science China Life Sciences, 2019, 62, 381-393.	4.9	25
25	Chassis engineering for microbial production of chemicals: from natural microbes to synthetic organisms. Current Opinion in Biotechnology, 2020, 66, 105-112.	6.6	24
26	Advances in engineering UDP-sugar supply for recombinant biosynthesis of glycosides in microbes. Biotechnology Advances, 2020, 41, 107538.	11.7	24
27	A â€œpush-pull-restrainâ€•strategy to improve citronellol production in Saccharomyces cerevisiae. Metabolic Engineering, 2021, 66, 51-59.	7.0	24
28	Pregnenolone Overproduction in Yarrowia lipolytica by Integrative Components Pairing of the Cytochrome P450scc System. ACS Synthetic Biology, 2019, 8, 2666-2678.	3.8	20
29	Primary and Secondary Metabolic Effects of a Key Gene Deletion (Î” YPL062W) in Metabolically Engineered Terpenoid-Producing Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2019, 85, .	3.1	19
30	Collaborative subcellular compartmentalization to improve GPP utilization and boost sabinene accumulation in Saccharomyces cerevisiae. Biochemical Engineering Journal, 2020, 164, 107768.	3.6	14
31	Metabolic Engineering of Saccharomyces cerevisiae for Enhanced Dihydroartemisinic Acid Production. Frontiers in Bioengineering and Biotechnology, 2020, 8, 152.	4.1	14
32	Crocetin Overproduction in Engineered Saccharomyces cerevisiae via Tuning Key Enzymes Coupled With Precursor Engineering. Frontiers in Bioengineering and Biotechnology, 2020, 8, 578005.	4.1	11
33	Compartmentalized Reconstitution of Post-squalene Pathway for 7-Dehydrocholesterol Overproduction in Saccharomyces cerevisiae. Frontiers in Microbiology, 2021, 12, 663973.	3.5	11
34	CsCCD2 Access Tunnel Design for a Broader Substrate Profile in Crocetin Production. Journal of Agricultural and Food Chemistry, 2021, 69, 11626-11636.	5.2	10
35	Spatialâ€“temporal distribution of nitric oxide involved in regulation of phenylalanine ammonialyase activation and Taxol production in immobilized Taxus cuspidata cells. Journal of Biotechnology, 2009, 139, 222-228.	3.8	9
36	Cell foundry with high product specificity and catalytic activity for 21-deoxycortisol biotransformation. Microbial Cell Factories, 2017, 16, 105.	4.0	9

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37	Exploring Catalysis Specificity of Phytoene Dehydrogenase CrtI in Carotenoid Synthesis. ACS Synthetic Biology, 2020, 9, 1753-1762.	3.8	7
38	Production of Plant Sesquiterpene Lactone Parthenolide in the Yeast Cell Factory. ACS Synthetic Biology, 2022, 11, 2473-2483.	3.8	7
39	Development of Organogels for Live Yarrowia lipolytica Encapsulation. Journal of the American Chemical Society, 2022, 144, 10251-10258.	13.7	7
40	Identification and manipulation of a novel locus to improve cell tolerance to short-chain alcohols in Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 589-598.	3.0	5
41	Endogenous 2Î¼ Plasmid Editing for Pathway Engineering in Saccharomyces cerevisiae. Frontiers in Microbiology, 2021, 12, 631462.	3.5	5
42	7â€‘dehydrocholesterol suppresses melanoma cell proliferation and invasion via Akt1/NFâ€‘κB signaling. Oncology Letters, 2020, 20, 1-1.	1.8	4
43	Enhancement and mapping of tolerance to salt stress and 5-fluorocytosine in synthetic yeast strains via SCRaMbLE. Synthetic and Systems Biotechnology, 2022, 7, 869-877.	3.7	4
44	Biochemical engineering in China. Reviews in Chemical Engineering, 2019, 35, 929-993.	4.4	1
45	NVD-BM-mediated genetic biosensor triggers accumulation of 7-dehydrocholesterol and inhibits melanoma via Akt1/NF-ÄB signaling. Aging, 2020, 12, 15021-15036.	3.1	1