

Wen-Hai Xiao

List of Publications by Year in descending order

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45
papers

3,062
citations

304743

22
h-index

223800

46
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46
docs citations

46
times ranked

3072
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement and mapping of tolerance to salt stress and 5-fluorocytosine in synthetic yeast strains via SCRaMbLE. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 869-877.	3.7	4
2	Production of Plant Sesquiterpene Lactone Parthenolide in the Yeast Cell Factory. <i>ACS Synthetic Biology</i> , 2022, 11, 2473-2483.	3.8	7
3	Development of Organogels for Live <i>Yarrowia lipolytica</i> Encapsulation. <i>Journal of the American Chemical Society</i> , 2022, 144, 10251-10258.	13.7	7
4	Multi-modular engineering of <i>Saccharomyces cerevisiae</i> for high-titre production of tyrosol and salidroside. <i>Microbial Biotechnology</i> , 2021, 14, 2605-2616.	4.2	40
5	Endogenous $\frac{1}{4}$ Plasmid Editing for Pathway Engineering in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 631462.	3.5	5
6	Compartmentalized Reconstitution of Post-squalene Pathway for 7-Dehydrocholesterol Overproduction in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 663973.	3.5	11
7	A "push-pull-restrain" strategy to improve citronellol production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2021, 66, 51-59.	7.0	24
8	<i>Cs</i> CCD2 Access Tunnel Design for a Broader Substrate Profile in Crocetin Production. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11626-11636.	5.2	10
9	Crocetin Overproduction in Engineered <i>Saccharomyces cerevisiae</i> via Tuning Key Enzymes Coupled With Precursor Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 578005.	4.1	11
10	Chassis engineering for microbial production of chemicals: from natural microbes to synthetic organisms. <i>Current Opinion in Biotechnology</i> , 2020, 66, 105-112.	6.6	24
11	Collaborative subcellular compartmentalization to improve GPP utilization and boost sabinene accumulation in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Engineering Journal</i> , 2020, 164, 107768.	3.6	14
12	Exploring Catalysis Specificity of Phytoene Dehydrogenase CrtI in Carotenoid Synthesis. <i>ACS Synthetic Biology</i> , 2020, 9, 1753-1762.	3.8	7
13	Enhanced astaxanthin production in yeast via combined mutagenesis and evolution. <i>Biochemical Engineering Journal</i> , 2020, 156, 107519.	3.6	57
14	Advances in engineering UDP-sugar supply for recombinant biosynthesis of glycosides in microbes. <i>Biotechnology Advances</i> , 2020, 41, 107538.	11.7	24
15	Metabolic Engineering of <i>Saccharomyces cerevisiae</i> for Enhanced Dihydroartemisinic Acid Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 152.	4.1	14
16	NVD-BM-mediated genetic biosensor triggers accumulation of 7-dehydrocholesterol and inhibits melanoma via Akt1/NF- κ B signaling. <i>Aging</i> , 2020, 12, 15021-15036.	3.1	1
17	7-dehydrocholesterol suppresses melanoma cell proliferation and invasion via Akt1/NF- κ B signaling. <i>Oncology Letters</i> , 2020, 20, 1-1.	1.8	4
18	Pregnenolone Overproduction in <i>Yarrowia lipolytica</i> by Integrative Components Pairing of the Cytochrome P450 _{scc} System. <i>ACS Synthetic Biology</i> , 2019, 8, 2666-2678.	3.8	20

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19	Primary and Secondary Metabolic Effects of a Key Gene Deletion (<i>Δ</i> YPL062W) in Metabolically Engineered Terpenoid-Producing <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	19
20	Transcriptome analysis reveals novel enzymes for apo-carotenoid biosynthesis in saffron and allows construction of a pathway for crocetin synthesis in yeast. <i>Journal of Experimental Botany</i> , 2019, 70, 4819-4834.	4.8	33
21	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993.	4.4	1
22	Loss of heterozygosity by SCRaMbLEing. <i>Science China Life Sciences</i> , 2019, 62, 381-393.	4.9	25
23	De novo leaf and root transcriptome analysis to explore biosynthetic pathway of Celangulin V in <i>Celastrus angulatus maxim.</i> <i>BMC Genomics</i> , 2019, 20, 7.	2.8	26
24	Identification and manipulation of a novel locus to improve cell tolerance to short-chain alcohols in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 589-598.	3.0	5
25	Rapid and Efficient CRISPR/Cas9-Based Mating-Type Switching of <i>Saccharomyces cerevisiae</i> . <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 173-183.	1.8	39
26	In vitro DNA SCRaMbLE. <i>Nature Communications</i> , 2018, 9, 1935.	12.8	81
27	Heterozygous diploid and interspecies SCRaMbLEing. <i>Nature Communications</i> , 2018, 9, 1934.	12.8	82
28	Metabolic engineering of <i>Saccharomyces cerevisiae</i> for 7-dehydrocholesterol overproduction. <i>Biotechnology for Biofuels</i> , 2018, 11, 192.	6.2	33
29	Astaxanthin overproduction in yeast by strain engineering and new gene target uncovering. <i>Biotechnology for Biofuels</i> , 2018, 11, 230.	6.2	77
30	Bug mapping and fitness testing of chemically synthesized chromosome X. <i>Science</i> , 2017, 355, .	12.6	173
31	Engineering of β -carotene hydroxylase and ketolase for astaxanthin overproduction in <i>Saccharomyces cerevisiae</i> . <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 89-99.	4.4	45
32	Manipulation of GES and ERG20 for geraniol overproduction in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2017, 41, 57-66.	7.0	138
33	Improved campesterol production in engineered <i>Yarrowia lipolytica</i> strains. <i>Biotechnology Letters</i> , 2017, 39, 1033-1039.	2.2	28
34	Heterologous biosynthesis and manipulation of crocetin in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2017, 16, 54.	4.0	38
35	Chassis and key enzymes engineering for monoterpenes production. <i>Biotechnology Advances</i> , 2017, 35, 1022-1031.	11.7	33
36	Engineering <i>Saccharomyces cerevisiae</i> for geranylgeraniol overproduction by combinatorial design. <i>Scientific Reports</i> , 2017, 7, 14991.	3.3	37

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37	Cell foundry with high product specificity and catalytic activity for 21-deoxycortisol biotransformation. <i>Microbial Cell Factories</i> , 2017, 16, 105.	4.0	9
38	Engineering <i>Yarrowia lipolytica</i> for Campesterol Overproduction. <i>PLoS ONE</i> , 2016, 11, e0146773.	2.5	34
39	Lycopene overproduction in <i>Saccharomyces cerevisiae</i> through combining pathway engineering with host engineering. <i>Microbial Cell Factories</i> , 2016, 15, 113.	4.0	158
40	Heterologous biosynthesis and manipulation of alkanes in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2016, 38, 19-28.	7.0	66
41	Biosynthesis of odd-chain fatty alcohols in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2015, 29, 113-123.	7.0	67
42	Alleviating Redox Imbalance Enhances 7-Dehydrocholesterol Production in Engineered <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2015, 10, e0130840.	2.5	30
43	Isoprenoid Pathway Optimization for Taxol Precursor Overproduction in <i>Escherichia coli</i> . <i>Science</i> , 2010, 330, 70-74.	12.6	1,426
44	Comparative metabolomic analysis on industrial continuous and batch ethanol fermentation processes by GC-TOF-MS. <i>Metabolomics</i> , 2009, 5, 229-238.	3.0	60
45	Spatial-temporal distribution of nitric oxide involved in regulation of phenylalanine ammonialyase activation and Taxol production in immobilized <i>Taxus cuspidata</i> cells. <i>Journal of Biotechnology</i> , 2009, 139, 222-228.	3.8	9