Huifeng Jiang

List of Publications by Year
in descending order

49 papers	2,091 citations	304368 22 h-index	253896 43 g-index
53 all docs	53 docs citations	53 times ranked	2510 citing authors

#	Article	IF	Citations
1	Recent advances in biocatalysis of nitrogen-containing heterocycles. Biotechnology Advances, 2022, 54, 107813.	6.0	23
2	Enzymatic DNA Synthesis by Engineering Terminal Deoxynucleotidyl Transferase. ACS Catalysis, 2022, 12, 2988-2997.	5.5	24
3	Metabolic engineering of Yarrowia lipolytica for scutellarin production. Synthetic and Systems Biotechnology, 2022, 7, 958-964.	1.8	12
4	Creating an Unusual Glycine-Rich Motif in a Peptide Amidase Leads to Versatile Protein C-Terminal Traceless Functionalization. ACS Catalysis, 2022, 12, 8019-8026.	5.5	5
5	The origin and evolution of the diosgenin biosynthetic pathway in yam. Plant Communications, 2021, 2, 100079.	3.6	44
6	Biocatalytic C-C Bond Formation for One Carbon Resource Utilization. International Journal of Molecular Sciences, 2021, 22, 1890.	1.8	9
7	Tracing the genetic footprints of vertebrate landing in non-teleost ray-finned fishes. Cell, 2021, 184, 1377-1391.e14.	13.5	66
8	Directed Evolution of Propionyl-CoA Carboxylase for Succinate Biosynthesis. Trends in Biotechnology, 2021, 39, 330-331.	4.9	4
9	De Novo Biosynthesis of Polydatin in Saccharomyces cerevisiae. Journal of Agricultural and Food Chemistry, 2021, 69, 5917-5925.	2.4	6
10	PCPD: Plant cytochrome P450 database and web-based tools for structural construction and ligand docking. Synthetic and Systems Biotechnology, 2021, 6, 102-109.	1.8	24
11	Chromosome-level genome of Himalayan yew provides insights into the origin and evolution of the paclitaxel biosynthetic pathway. Molecular Plant, 2021, 14, 1199-1209.	3.9	46
12	Cell-free chemoenzymatic starch synthesis from carbon dioxide. Science, 2021, 373, 1523-1527.	6.0	274
13	Zanthoxylum-specific whole genome duplication and recent activity of transposable elements in the highly repetitive paleotetraploid Z. bungeanum genome. Horticulture Research, 2021, 8, 205.	2.9	19
14	Synthetic biology of plant natural products: From pathway elucidation to engineered biosynthesis in plant cells. Plant Communications, 2021, 2, 100229.	3.6	37
15	Combining protein and metabolic engineering to construct efficient microbial cell factories. Current Opinion in Biotechnology, 2020, 66, 27-35.	3.3	25
16	De Novo Biosynthesis of Multiple Pinocembrin Derivatives in Saccharomyces cerevisiae. ACS Synthetic Biology, 2020, 9, 3042-3051.	1.9	26
17	Origin and Evolution of Fusidane-Type Antibiotics Biosynthetic Pathway through Multiple Horizontal Gene Transfers. Genome Biology and Evolution, 2020, 12, 1830-1840.	1.1	7
18	Totally atom-economical synthesis of lactic acid from formaldehyde: combined bio-carboligation and chemo-rearrangement without the isolation of intermediates. Green Chemistry, 2020, 22, 6809-6814.	4.6	14

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19	Synthesis of Ligustrazine from Acetaldehyde by a Combined Biologicalâ€“Chemical Approach. ACS Synthetic Biology, 2020, 9, 2902-2908.	1.9	11
20	Discovery and modification of cytochrome P450 for plant natural products biosynthesis. Synthetic and Systems Biotechnology, 2020, 5, 187-199.	1.8	47
21	Raising the production of phloretin by alleviation of by-product of chalcone synthase in the engineered yeast. Science China Life Sciences, 2020, 63, 1734-1743.	2.3	11
22	Lysine Mutation of the Claw-Arm-Like Loop Accelerates Catalysis by Cellobiohydrolases. Journal of the American Chemical Society, 2019, 141, 14451-14459.	6.6	17
23	Assembly and Analysis of the Genome Sequence of the Yeast Brettanomyces naardenensis CBS 7540. Microorganisms, 2019, 7, 489.	1.6	8
24	Systematic design and in vitro validation of novel one-carbon assimilation pathways. Metabolic Engineering, 2019, 56, 142-153.	3.6	57
25	Constructing a synthetic pathway for acetyl-coenzyme A from one-carbon through enzyme design. Nature Communications, 2019, 10, 1378.	5.8	128
26	Combining Protein and Metabolic Engineering Strategies for High-Level Production of O-Acetylhomoserine in Escherichia coli. ACS Synthetic Biology, 2019, 8, 1153-1167.	1.9	30
27	Engineering yeast for the production of breviscapine by genomic analysis and synthetic biology approaches. Nature Communications, 2018, 9, 448.	5.8	146
28	Engineering the 5â€² UTR-Mediated Regulation of Protein Abundance in Yeast Using Nucleotide Sequence Activity Relationships. ACS Synthetic Biology, 2018, 7, 2709-2714.	1.9	16
29	Parallel Evolution of Chromatin Structure Underlying Metabolic Adaptation. Molecular Biology and Evolution, 2017, 34, 2870-2878.	3.5	5
30	Biosynthesis and engineering of kaempferol in Saccharomyces cerevisiae. Microbial Cell Factories, 2017, 16, 165.	1.9	68
31	Engineering microbial cell factories for the production of plant natural products: from design principles to industrial-scale production. Microbial Cell Factories, 2017, 16, 125.	1.9	95
32	Mitochondrial genome evolution in the Saccharomyces sensu stricto complex. PLoS ONE, 2017, 12, e0183035.	1.1	6
33	Improving the catalytic activity of isopentenyl phosphate kinase through protein coevolution analysis. Scientific Reports, 2016, 6, 24117.	1.6	28
34	Diaphragmatic Eventration in Sisters with Asparagine Synthetase Deficiency: A Novel Homozygous ASNS Mutation and Expanded Phenotype. JIMD Reports, 2016, 34, 1-9.	0.7	24
35	Development of a modularized two-step (M2S) chromosome integration technique for integration of multiple transcription units in Saccharomyces cerevisiae. Biotechnology for Biofuels, 2016, 9, 232.	6.2	22
36	Auxenochlorella protothecoides and Prototheca wickerhamii plastid genome sequences give insight into the origins of non-photosynthetic algae. Scientific Reports, 2015, 5, 14465.	1.6	20

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37	Evolution of Gene Regulation during Transcription and Translation. Genome Biology and Evolution, 2015, 7, 1155-1167.	1.1	52
38	Pleiotropy of the de novo-originated gene MDF1. Scientific Reports, 2014, 4, 7280.	1.6	28
39	Coordinating Expression of RNA Binding Proteins with Their mRNA Targets. Scientific Reports, 2014, 4, 7175.	1.6	11
40	Rewiring of Posttranscriptional RNA Regulons: Puf4p in Fungi as an Example. Molecular Biology and Evolution, 2012, 29, 2169-2176.	3.5	12
41	Growth of Novel Epistatic Interactions by Gene Duplication. Genome Biology and Evolution, 2011, 3, 295-301.	1.1	5
42	Gene duplication in the genome of parasitic Giardia lamblia. BMC Evolutionary Biology, 2010, 10, 49.	3.2	14
43	A de novo originated gene depresses budding yeast mating pathway and is repressed by the protein encoded by its antisense strand. Cell Research, 2010, 20, 408-420.	5.7	110
44	Tinkering Evolution of Post-Transcriptional RNA Regulons: Puf3p in Fungi as an Example. PLoS Genetics, 2010, 6, e1001030.	1.5	28
45	Short Homologous Sequences Are Strongly Associated with the Generation of Chimeric RNAs in Eukaryotes. Journal of Molecular Evolution, 2009, 68, 56-65.	0.8	77
46	Relaxation of yeast mitochondrial functions after whole-genome duplication. Genome Research, 2008, 18, 1466-1471.	2.4	38
47	De Novo Origination of a New Protein-Coding Gene in Saccharomyces cerevisiae. Genetics, 2008, 179, 487-496.	1.2	209
48	Rapid evolution in a pair of recent duplicate segments of rice. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2007, 308B, 50-57.	0.6	11
49	Origin and evolution of new exons in rodents. Genome Research, 2005, 15, 1258-1264.	2.4	91