

# Huifeng Jiang

## List of Publications by Year in descending order

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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	Cell-free chemoenzymatic starch synthesis from carbon dioxide. <i>Science</i> , 2021, 373, 1523-1527.	6.0	274
2	<i>De Novo</i> Origination of a New Protein-Coding Gene in <i>Saccharomyces cerevisiae</i>. <i>Genetics</i> , 2008, 179, 487-496.	1.2	209
3	Engineering yeast for the production of breviscapine by genomic analysis and synthetic biology approaches. <i>Nature Communications</i> , 2018, 9, 448.	5.8	146
4	Constructing a synthetic pathway for acetyl-coenzyme A from one-carbon through enzyme design. <i>Nature Communications</i> , 2019, 10, 1378.	5.8	128
5	A de novo originated gene depresses budding yeast mating pathway and is repressed by the protein encoded by its antisense strand. <i>Cell Research</i> , 2010, 20, 408-420.	5.7	110
6	Engineering microbial cell factories for the production of plant natural products: from design principles to industrial-scale production. <i>Microbial Cell Factories</i> , 2017, 16, 125.	1.9	95
7	Origin and evolution of new exons in rodents. <i>Genome Research</i> , 2005, 15, 1258-1264.	2.4	91
8	Short Homologous Sequences Are Strongly Associated with the Generation of Chimeric RNAs in Eukaryotes. <i>Journal of Molecular Evolution</i> , 2009, 68, 56-65.	0.8	77
9	Biosynthesis and engineering of kaempferol in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2017, 16, 165.	1.9	68
10	Tracing the genetic footprints of vertebrate landing in non-teleost ray-finned fishes. <i>Cell</i> , 2021, 184, 1377-1391.e14.	13.5	66
11	Systematic design and in vitro validation of novel one-carbon assimilation pathways. <i>Metabolic Engineering</i> , 2019, 56, 142-153.	3.6	57
12	Evolution of Gene Regulation during Transcription and Translation. <i>Genome Biology and Evolution</i> , 2015, 7, 1155-1167.	1.1	52
13	Discovery and modification of cytochrome P450 for plant natural products biosynthesis. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 187-199.	1.8	47
14	Chromosome-level genome of Himalayan yew provides insights into the origin and evolution of the paclitaxel biosynthetic pathway. <i>Molecular Plant</i> , 2021, 14, 1199-1209.	3.9	46
15	The origin and evolution of the diosgenin biosynthetic pathway in yam. <i>Plant Communications</i> , 2021, 2, 100079.	3.6	44
16	Relaxation of yeast mitochondrial functions after whole-genome duplication. <i>Genome Research</i> , 2008, 18, 1466-1471.	2.4	38
17	Synthetic biology of plant natural products: From pathway elucidation to engineered biosynthesis in plant cells. <i>Plant Communications</i> , 2021, 2, 100229.	3.6	37
18	Combining Protein and Metabolic Engineering Strategies for High-Level Production of <i>O</i>-Acetylhomoserine in <i>Escherichia coli</i>. <i>ACS Synthetic Biology</i> , 2019, 8, 1153-1167.	1.9	30

#	ARTICLE	IF	CITATIONS
19	Tinkering Evolution of Post-Transcriptional RNA Regulons: Puf3p in Fungi as an Example. <i>PLoS Genetics</i> , 2010, 6, e1001030.	1.5	28
20	Pleiotropy of the de novo-originated gene MDF1. <i>Scientific Reports</i> , 2014, 4, 7280.	1.6	28
21	Improving the catalytic activity of isopentenyl phosphate kinase through protein coevolution analysis. <i>Scientific Reports</i> , 2016, 6, 24117.	1.6	28
22	<i>De Novo</i> Biosynthesis of Multiple Pinocembrin Derivatives in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 3042-3051.	1.9	26
23	Combining protein and metabolic engineering to construct efficient microbial cell factories. <i>Current Opinion in Biotechnology</i> , 2020, 66, 27-35.	3.3	25
24	Diaphragmatic Eventration in Sisters with Asparagine Synthetase Deficiency: A Novel Homozygous ASNS Mutation and Expanded Phenotype. <i>JIMD Reports</i> , 2016, 34, 1-9.	0.7	24
25	PCPD: Plant cytochrome P450 database and web-based tools for structural construction and ligand docking. <i>Synthetic and Systems Biotechnology</i> , 2021, 6, 102-109.	1.8	24
26	Enzymatic DNA Synthesis by Engineering Terminal Deoxynucleotidyl Transferase. <i>ACS Catalysis</i> , 2022, 12, 2988-2997.	5.5	24
27	Recent advances in biocatalysis of nitrogen-containing heterocycles. <i>Biotechnology Advances</i> , 2022, 54, 107813.	6.0	23
28	Development of a modularized two-step (M2S) chromosome integration technique for integration of multiple transcription units in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2016, 9, 232.	6.2	22
29	<i>Auxenochlorella protothecoides</i> and <i>Prototheca wickerhamii</i> plastid genome sequences give insight into the origins of non-photosynthetic algae. <i>Scientific Reports</i> , 2015, 5, 14465.	1.6	20
30	<i>Zanthoxylum</i> -specific whole genome duplication and recent activity of transposable elements in the highly repetitive paleotetraploid <i>Z. bungeanum</i> genome. <i>Horticulture Research</i> , 2021, 8, 205.	2.9	19
31	Lysine Mutation of the Claw-Arm-Like Loop Accelerates Catalysis by Cellobiohydrolases. <i>Journal of the American Chemical Society</i> , 2019, 141, 14451-14459.	6.6	17
32	Engineering the 5' UTR-Mediated Regulation of Protein Abundance in Yeast Using Nucleotide Sequence Activity Relationships. <i>ACS Synthetic Biology</i> , 2018, 7, 2709-2714.	1.9	16
33	Gene duplication in the genome of parasitic <i>Giardia lamblia</i> . <i>BMC Evolutionary Biology</i> , 2010, 10, 49.	3.2	14
34	Totally atom-economical synthesis of lactic acid from formaldehyde: combined bio-carboligation and chemo-rearrangement without the isolation of intermediates. <i>Green Chemistry</i> , 2020, 22, 6809-6814.	4.6	14
35	Rewiring of Posttranscriptional RNA Regulons: Puf4p in Fungi as an Example. <i>Molecular Biology and Evolution</i> , 2012, 29, 2169-2176.	3.5	12
36	Metabolic engineering of <i>Yarrowia lipolytica</i> for scutellarin production. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 958-964.	1.8	12

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37	Rapid evolution in a pair of recent duplicate segments of rice. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 50-57.	0.6	11
38	Coordinating Expression of RNA Binding Proteins with Their mRNA Targets. <i>Scientific Reports</i> , 2014, 4, 7175.	1.6	11
39	Synthesis of Ligustrazine from Acetaldehyde by a Combined Biological&quot;Chemical Approach. <i>ACS Synthetic Biology</i> , 2020, 9, 2902-2908.	1.9	11
40	Raising the production of phloretin by alleviation of by-product of chalcone synthase in the engineered yeast. <i>Science China Life Sciences</i> , 2020, 63, 1734-1743.	2.3	11
41	Biocatalytic C-C Bond Formation for One Carbon Resource Utilization. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1890.	1.8	9
42	Assembly and Analysis of the Genome Sequence of the Yeast <i>Brettanomyces naardenensis</i> CBS 7540. <i>Microorganisms</i> , 2019, 7, 489.	1.6	8
43	Origin and Evolution of Fusidane-Type Antibiotics Biosynthetic Pathway through Multiple Horizontal Gene Transfers. <i>Genome Biology and Evolution</i> , 2020, 12, 1830-1840.	1.1	7
44	<i>De Novo</i> Biosynthesis of Polydatin in <i>Saccharomyces cerevisiae</i>. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 5917-5925.	2.4	6
45	Mitochondrial genome evolution in the <i>Saccharomyces sensu stricto</i> complex. <i>PLoS ONE</i> , 2017, 12, e0183035.	1.1	6
46	Growth of Novel Epistatic Interactions by Gene Duplication. <i>Genome Biology and Evolution</i> , 2011, 3, 295-301.	1.1	5
47	Parallel Evolution of Chromatin Structure Underlying Metabolic Adaptation. <i>Molecular Biology and Evolution</i> , 2017, 34, 2870-2878.	3.5	5
48	Creating an Unusual Glycine-Rich Motif in a Peptide Amidase Leads to Versatile Protein C-Terminal Traceless Functionalization. <i>ACS Catalysis</i> , 2022, 12, 8019-8026.	5.5	5
49	Directed Evolution of Propionyl-CoA Carboxylase for Succinate Biosynthesis. <i>Trends in Biotechnology</i> , 2021, 39, 330-331.	4.9	4