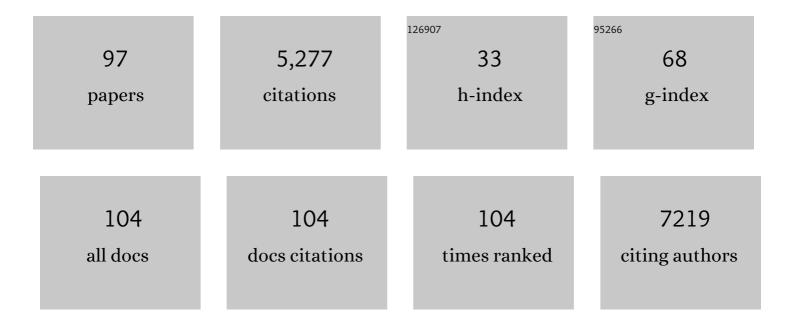
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The First Identification of Lysine Malonylation Substrates and Its Regulatory Enzyme. Molecular and Cellular Proteomics, 2011, 10, M111.012658.	3.8	598
2	Lysine Succinylation and Lysine Malonylation in Histones. Molecular and Cellular Proteomics, 2012, 11, 100-107.	3.8	483
3	Synthetic chromosome arms function in yeast and generate phenotypic diversity by design. Nature, 2011, 477, 471-476.	27.8	398
4	Probing Nucleosome Function: A Highly Versatile Library of Synthetic Histone H3 and H4 Mutants. Cell, 2008, 134, 1066-1078.	28.9	198
5	H3K36 methylation promotes longevity by enhancing transcriptional fidelity. Genes and Development, 2015, 29, 1362-1376.	5.9	196
6	Synthesis, debugging, and effects of synthetic chromosome consolidation: synVI and beyond. Science, 2017, 355, .	12.6	184
7	Bug mapping and fitness testing of chemically synthesized chromosome X. Science, 2017, 355, .	12.6	173
8	Engineering the ribosomal DNA in a megabase synthetic chromosome. Science, 2017, 355, .	12.6	169
9	Linear epitopes of SARS-CoV-2 spike protein elicit neutralizing antibodies in COVID-19 patients. Cellular and Molecular Immunology, 2020, 17, 1095-1097.	10.5	168
10	Critical roles of long noncoding RNAs in <i>Drosophila</i> spermatogenesis. Genome Research, 2016, 26, 1233-1244.	5.5	164
11	Deep functional analysis of synII, a 770-kilobase synthetic yeast chromosome. Science, 2017, 355, .	12.6	163
12	Oil accumulation mechanisms of the oleaginous microalga Chlorella protothecoides revealed through its genome, transcriptomes, and proteomes. BMC Genomics, 2014, 15, 582.	2.8	134
13	3D organization of synthetic and scrambled chromosomes. Science, 2017, 355, .	12.6	116
14	Controlling integration specificity of a yeast retrotransposon. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5891-5895.	7.1	115
15	Rapid pathway prototyping and engineering using in vitro and in vivo synthetic genome SCRaMbLE-in methods. Nature Communications, 2018, 9, 1936.	12.8	101
16	Identifying and characterizing SCRaMbLEd synthetic yeast using ReSCuES. Nature Communications, 2018, 9, 1930.	12.8	95
17	YeastFab: the design and construction of standard biological parts for metabolic engineering in <i>Saccharomyces cerevisiae</i> . Nucleic Acids Research, 2015, 43, e88-e88.	14.5	93
18	Landscape of the regulatory elements for lysine 2-hydroxyisobutyrylation pathway. Cell Research, 2018, 28, 111-125.	12.0	89

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19	Genome-Based Metabolic Mapping and 13C Flux Analysis Reveal Systematic Properties of an Oleaginous Microalga <i>Chlorella protothecoides</i> Â Â. Plant Physiology, 2015, 167, 586-599.	4.8	82
20	MiYA, an efficient machine-learning workflow in conjunction with the YeastFab assembly strategy for combinatorial optimization of heterologous metabolic pathways in Saccharomyces cerevisiae. Metabolic Engineering, 2018, 47, 294-302.	7.0	76
21	2-Hydroxyisobutyrylation on histone H4K8 is regulated by glucose homeostasis in <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8782-8787.	7.1	74
22	Phosphorylation Regulates Integration of the Yeast Ty5 Retrotransposon into Heterochromatin. Molecular Cell, 2007, 27, 289-299.	9.7	72
23	The COVID-19 XPRIZE and the need for scalable, fast, and widespread testing. Nature Biotechnology, 2020, 38, 1021-1024.	17.5	71
24	Heritable Genome Editing with CRISPR/Cas9 in the Silkworm, Bombyx mori. PLoS ONE, 2014, 9, e101210.	2.5	66
25	Efficient Gene Knock-out and Knock-in with Transgenic Cas9 in <i>Drosophila</i> . G3: Genes, Genomes, Genetics, 2014, 4, 925-929.	1.8	65
26	The NuA4 Core Complex Acetylates Nucleosomal Histone H4 through a Double Recognition Mechanism. Molecular Cell, 2016, 63, 965-975.	9.7	64
27	Genome-wide landscape of position effects on heterogeneous gene expression in Saccharomyces cerevisiae. Biotechnology for Biofuels, 2017, 10, 189.	6.2	53
28	HistoneHits: A database for histone mutations and their phenotypes. Genome Research, 2009, 19, 674-681.	5.5	47
29	CryoEM structure of yeast cytoplasmic exosome complex. Cell Research, 2016, 26, 822-837.	12.0	44
30	Autophagy-like processes are involved in lipid droplet degradation in Auxenochlorella protothecoides during the heterotrophy-autotrophy transition. Frontiers in Plant Science, 2014, 5, 400.	3.6	43
31	Analysis of Autophagy Genes in Microalgae: Chlorella as a Potential Model to Study Mechanism of Autophagy. PLoS ONE, 2012, 7, e41826.	2.5	36
32	Metabolic Flux Analysis of Lipid Biosynthesis in the Yeast Yarrowia lipolytica Using 13C-Labled Glucose and Gas Chromatography-Mass Spectrometry. PLoS ONE, 2016, 11, e0159187.	2.5	36
33	Synthetic genomics: a new venture to dissect genome fundamentals and engineer new functions. Current Opinion in Chemical Biology, 2018, 46, 56-62.	6.1	35
34	Title is missing!. Journal of Applied Phycology, 1999, 11, 137-142.	2.8	34
35	Photosynthetic Accumulation of Lutein in Auxenochlorella protothecoides after Heterotrophic Growth. Marine Drugs, 2018, 16, 283.	4.6	32
36	Interplay Between Histone H3 Lysine 56 Deacetylation and Chromatin Modifiers in Response to DNA Damage. Genetics, 2015, 200, 185-205.	2.9	29

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37	Identification of Sporopollenin as the Outer Layer of Cell Wall in Microalga Chlorella protothecoides. Frontiers in Microbiology, 2016, 7, 1047.	3.5	29
38	Compacting a synthetic yeast chromosome arm. Genome Biology, 2021, 22, 5.	8.8	28
39	An evolutionarily â€~young' lysine residue in histone H3 attenuates transcriptional output in <i>Saccharomyces cerevisiae</i> . Genes and Development, 2011, 25, 1306-1319.	5.9	27
40	Probing the Function of Metazoan Histones with a Systematic Library of H3 and H4 Mutants. Developmental Cell, 2019, 48, 406-419.e5.	7.0	27
41	Sc3.0: revamping and minimizing the yeast genome. Genome Biology, 2020, 21, 205.	8.8	26
42	Artificial Protein Scaffold System (AProSS): An efficient method to optimize exogenous metabolic pathways in Saccharomyces cerevisiae. Metabolic Engineering, 2018, 49, 13-20.	7.0	24
43	Genetic interaction mapping informs integrative structure determination of protein complexes. Science, 2020, 370, .	12.6	24
44	Kinetochore Function and Chromosome Segregation Rely on Critical Residues in Histones H3 and H4 in Budding Yeast. Genetics, 2013, 195, 795-807.	2.9	23
45	Kinetic flux profiling dissects nitrogen utilization pathways in the oleaginous green alga <i>Chlorella protothecoides</i> . Journal of Phycology, 2016, 52, 116-124.	2.3	23
46	Coevolution of Eukaryote-like Vps4 and ESCRT-III Subunits in the Asgard Archaea. MBio, 2020, 11, .	4.1	23
47	Mammalian Synthetic Biology: Time for Big MACs. ACS Synthetic Biology, 2016, 5, 1040-1049.	3.8	22
48	Wicket: A Versatile Tool for the Integration and Optimization of Exogenous Pathways in <i>Saccharomyces cerevisiae</i> . ACS Synthetic Biology, 2018, 7, 782-788.	3.8	22
49	Design and chemical synthesis of eukaryotic chromosomes. Chemical Society Reviews, 2017, 46, 7191-7207.	38.1	21
50	Auxenochlorella protothecoides and Prototheca wickerhamii plastid genome sequences give insight into the origins of non-photosynthetic algae. Scientific Reports, 2015, 5, 14465.	3.3	20
51	Construction, characterization and application of a genome-wide promoter library in Saccharomyces cerevisiae. Frontiers of Chemical Science and Engineering, 2017, 11, 107-116.	4.4	20
52	Whole genome engineering by synthesis. Science China Life Sciences, 2018, 61, 1515-1527.	4.9	20
53	Relevance of the dietary glycemic index, glycemic load and genetic predisposition for the glucose homeostasis of Chinese adults without diabetes. Scientific Reports, 2017, 7, 400.	3.3	19
54	The Role of Y Chromosome Genes in Male Fertility in <i>Drosophila melanogaster</i> . Genetics, 2020, 215, 623-633.	2.9	19

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55	Biodegradation of aromatic pollutants meets synthetic biology. Synthetic and Systems Biotechnology, 2021, 6, 153-162.	3.7	17
56	Glutaredoxin Deletion Shortens Chronological Life Span in <i>Saccharomyces cerevisiae</i> via ROS-Mediated Ras/PKA Activation. Journal of Proteome Research, 2018, 17, 2318-2327.	3.7	16
57	Characterization of an ammonium transporter in the oleaginous alga Chlorella protothecoides. Applied Microbiology and Biotechnology, 2013, 97, 919-928.	3.6	14
58	Yin and Yang of Histone H2B Roles in Silencing and Longevity: A Tale of Two Arginines. Genetics, 2010, 186, 813-828.	2.9	12
59	Industrial Fermentation of Auxenochlorella protothecoides for Production of Biodiesel and Its Application in Vehicle Diesel Engines. Frontiers in Bioengineering and Biotechnology, 2015, 3, 164.	4.1	12
60	Wholeâ€Genome Regulation for Yeast Metabolic Engineering. Small Methods, 2020, 4, 1900640.	8.6	12
61	Identification of gene products that control lipid droplet size in yeast using a high-throughput quantitative image analysis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 113-127.	2.4	10
62	SCRaMbLE: A Study of Its Robustness and Challenges through Enhancement of Hygromycin B Resistance in a Semi-Synthetic Yeast. Bioengineering, 2021, 8, 42.	3.5	10
63	Microgrooved poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) affects the phenotype of vascular smooth muscle cells through let-7a-involved regulation of actin dynamics. Biotechnology Letters, 2014, 36, 2125-2133.	2.2	9
64	EcoExpress—Highly Efficient Construction and Expression of Multicomponent Protein Complexes in <i>Escherichia coli</i> . ACS Synthetic Biology, 2016, 5, 1239-1246.	3.8	9
65	Construction of Comprehensive Dosage-Matching Core Histone Mutant Libraries for <i>>Saccharomyces cerevisiae</i> . Genetics, 2017, 207, 1263-1273.	2.9	9
66	Engineering and functional analysis of yeast with a monotypic 40S ribosome subunit. Proceedings of the United States of America, 2022, 119, .	7.1	9
67	Efficient de novo assembly and modification of large DNA fragments. Science China Life Sciences, 2022, 65, 1445-1455.	4.9	9
68	Photosynthesis-fermentation hybrid system to produce lipid feedstock for algal biofuel. Environmental Technology (United Kingdom), 2013, 34, 1869-1876.	2.2	8
69	YeastFab: High-Throughput Genetic Parts Construction, Measurement, and Pathway Engineering in Yeast. Methods in Enzymology, 2018, 608, 277-306.	1.0	8
70	Dissecting Nucleosome Function with a Comprehensive Histone H2A and H2B Mutant Library. G3: Genes, Genomes, Genetics, 2017, 7, 3857-3866.	1.8	7
71	Dissecting PCNA function with a systematically designed mutant library in yeast. Journal of Genetics and Genomics, 2019, 46, 301-313.	3.9	7
72	Multiplex Genome Engineering for Optimizing Bioproduction in <i>Saccharomyces cerevisiae</i> . Biochemistry, 2019, 58, 1492-1500.	2.5	7

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73	Synthetic yeast genomes for studying chromosomal features. Current Opinion in Systems Biology, 2020, 23, 1-7.	2.6	7
74	Engineered TAL Effector modulators for the large-scale gain-of-function screening. Nucleic Acids Research, 2014, 42, e114-e114.	14.5	6
75	A quantitative analysis of histone methylation and acetylation isoforms from their deuteroacetylated derivatives: application to a series of knockout mutants. Journal of Mass Spectrometry, 2013, 48, 608-615.	1.6	5
76	Improving Chromosome Synthesis with a Semiquantitative Phenotypic Assay and Refined Assembly Strategy. ACS Synthetic Biology, 2019, 8, 2203-2211.	3.8	5
77	Inevitability or contingency: how many chromosomes do we really need?. Science China Life Sciences, 2019, 62, 140-143.	4.9	5
78	Probing eukaryotic genome functions with synthetic chromosomes. Experimental Cell Research, 2020, 390, 111936.	2.6	5
79	Identification of long chain isoprenoid hydrocarbons from pyrolytic product ofDunaliella. Science Bulletin, 1999, 44, 1700-1705.	1.7	4
80	Coevolution of ribosomal RNA expansion segment 7L and assembly factor Noc2p specializes the ribosome biogenesis pathway between <i>Saccharomyces cerevisiae</i> and <i>Candida albicans</i> . Nucleic Acids Research, 2021, 49, 4655-4667.	14.5	4
81	Whole genome synthesis: from poliovirus to synthetic yeast. Quantitative Biology, 2017, 5, 105-109.	0.5	3
82	PyMut: A Web Tool for Overlapping Gene Loss-of-Function Mutation Design. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1107-1110.	3.0	2
83	Chromosomal Rearrangements of Synthetic Yeast by SCRaMbLE. Methods in Molecular Biology, 2021, 2196, 153-165.	0.9	2
84	Strain Construction and Screening Methods for a Yeast Histone H3/H4 Mutant Library. Methods in Molecular Biology, 2012, 833, 1-14.	0.9	2
85	Probing the Function of Metazoan Histones with a Systematic Library of H3 and H4 Mutants. SSRN Electronic Journal, 0, , .	0.4	2
86	Studying bona fide SARS-CoV-2 biology in a BSL-2 biosafety environment using a split-virus-genome system. Science China Life Sciences, 2022, 65, 1894-1897.	4.9	2
87	Hydrocarbons pyrolysed from nannoplanktonic algae: An experimental organism system for study on the origin of petroleum and natural gas. Science Bulletin, 1999, 44, 767-768.	1.7	1
88	Molecular source of biomarkers by genetic engineering techniques. Science Bulletin, 2000, 45, 1025-1030.	1.7	1
89	Cell Lysate Microarray for Mapping the Network of Genetic Regulators for Histone Marks. Molecular and Cellular Proteomics, 2018, 17, 1720-1736.	3.8	1
90	Reconstruction of Secondary Metabolic Pathway to Synthesize Novel Metabolite in Saccharopolyspora erythraea. Frontiers in Bioengineering and Biotechnology, 2021, 9, 628569.	4.1	1

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91	Use YeastFab to Construct Genetic Parts and Multicomponent Pathways for Metabolic Engineering. Methods in Molecular Biology, 2021, 2196, 167-180.	0.9	1
92	Carbon isotopic values of individual n-alkanes in pyrolysates of algae. Diqiu Huaxue, 2000, 19, 181-185.	0.5	0
93	Meeting report on Synthetic Biology Young Scholar Forum. Quantitative Biology, 2016, 3, 206-211.	0.5	0
94	Methods to Synthesize Large DNA Fragments for a Synthetic Yeast Genome. Cold Spring Harbor Protocols, 2017, 2017, pdb.prot080978.	0.3	0
95	Investigating loss of heterozygosity in a SCRaMbLEd yeast genome. Science China Life Sciences, 2019, 62, 868-869.	4.9	0
96	Association of Histone Modification Patterns With Transcription Factor Binding Revealed by Systematic Analysis. Acta Agronomica Sinica(China), 2013, 40, 177.	0.3	0
97	SCRaMbLE-in: A Fast and Efficient Method to Diversify and Improve the Yields of Heterologous Pathways in Synthetic Yeast. Methods in Molecular Biology, 2020, 2205, 305-327.	0.9	0