

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

254  
papers

9,435  
citations

52  
h-index

92  
g-index

271  
ext. papers

11,711  
ext. citations

8.8  
avg, IF

6.89  
L-index

#	Paper	IF	Citations
254	Chromatin architecture reorganization during stem cell differentiation. <i>Nature</i> , <b>2015</b> , 518, 331-6	50.4	988
253	DNA assembler, an in vivo genetic method for rapid construction of biochemical pathways. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, e16	20.1	489
252	High-efficiency multiplex genome editing of <i>Streptomyces</i> species using an engineered CRISPR/Cas system. <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 723-8	5.7	355
251	Regeneration of cofactors for use in biocatalysis. <i>Current Opinion in Biotechnology</i> , <b>2003</b> , 14, 583-9	11.4	287
250	Homology-integrated CRISPR-Cas (HI-CRISPR) system for one-step multigene disruption in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 585-94	5.7	231
249	Improving and repurposing biocatalysts via directed evolution. <i>Current Opinion in Chemical Biology</i> , <b>2015</b> , 25, 55-64	9.7	199
248	Customized optimization of metabolic pathways by combinatorial transcriptional engineering. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, e142	20.1	193
247	Selective elimination of mitochondrial mutations in the germline by genome editing. <i>Cell</i> , <b>2015</b> , 161, 459-469	56.2	187
246	Engineering microbial factories for synthesis of value-added products. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2011</b> , 38, 873-90	4.2	169
245	Combinatorial metabolic engineering using an orthogonal tri-functional CRISPR system. <i>Nature Communications</i> , <b>2017</b> , 8, 1688	17.4	164
244	Design and construction of acetyl-CoA overproducing <i>Saccharomyces cerevisiae</i> strains. <i>Metabolic Engineering</i> , <b>2014</b> , 24, 139-49	9.7	154
243	Screening for enhanced triacetic acid lactone production by recombinant <i>Escherichia coli</i> expressing a designed triacetic acid lactone reporter. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10099-103	16.4	152
242	Recent advances in metabolic engineering of <i>Saccharomyces cerevisiae</i> : New tools and their applications. <i>Metabolic Engineering</i> , <b>2018</b> , 50, 85-108	9.7	147
241	Cooperative asymmetric reactions combining photocatalysis and enzymatic catalysis. <i>Nature</i> , <b>2018</b> , 560, 355-359	50.4	140
240	Cloning and characterization of a panel of constitutive promoters for applications in pathway engineering in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 2082-92	4.9	140
239	CRISPR/Cas9 mediated targeted mutagenesis of the fast growing cyanobacterium <i>Synechococcus elongatus</i> UTEX 2973. <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 115	6.4	136
238	A highly efficient single-step, markerless strategy for multi-copy chromosomal integration of large biochemical pathways in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , <b>2016</b> , 33, 19-27	9.7	134

237	Biocatalysis for the synthesis of pharmaceuticals and pharmaceutical intermediates. <i>Bioorganic and Medicinal Chemistry</i> , <b>2018</b> , 26, 1275-1284	3.4	115
236	Automated multiplex genome-scale engineering in yeast. <i>Nature Communications</i> , <b>2017</b> , 8, 15187	17.4	114
235	High Throughput Screening and Selection Methods for Directed Enzyme Evolution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 4011-4020	3.9	109
234	Development of a Synthetic Malonyl-CoA Sensor in <i>Saccharomyces cerevisiae</i> for Intracellular Metabolite Monitoring and Genetic Screening. <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 1308-15	5.7	106
233	Systematic Identification of a Panel of Strong Constitutive Promoters from <i>Streptomyces albus</i> . <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 1001-10	5.7	101
232	Recent advances in natural product discovery. <i>Current Opinion in Biotechnology</i> , <b>2014</b> , 30, 230-7	11.4	100
231	Engineering biological systems using automated biofoundries. <i>Metabolic Engineering</i> , <b>2017</b> , 42, 98-108	9.7	97
230	Genome-scale engineering of <i>Saccharomyces cerevisiae</i> with single-nucleotide precision. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 505-508	44.5	97
229	Protein engineering in designing tailored enzymes and microorganisms for biofuels production. <i>Current Opinion in Biotechnology</i> , <b>2009</b> , 20, 412-9	11.4	96
228	Directed Evolution: Past, Present and Future. <i>AIChE Journal</i> , <b>2013</b> , 59, 1432-1440	3.6	93
227	Recent advances in biocatalysis by directed enzyme evolution. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2006</b> , 9, 247-57	1.3	93
226	Metabolic engineering of <i>Saccharomyces cerevisiae</i> to improve 1-hexadecanol production. <i>Metabolic Engineering</i> , <b>2015</b> , 27, 10-19	9.7	86
225	Discovery and characterization of novel d-xylose-specific transporters from <i>Neurospora crassa</i> and <i>Pichia stipitis</i> . <i>Molecular BioSystems</i> , <b>2010</b> , 6, 2150-6		86
224	Recent advances in DNA assembly technologies. <i>FEMS Yeast Research</i> , <b>2015</b> , 15, 1-9	3.1	85
223	Directed evolution as a powerful synthetic biology tool. <i>Methods</i> , <b>2013</b> , 60, 81-90	4.6	85
222	Directed evolution: an evolving and enabling synthetic biology tool. <i>Current Opinion in Chemical Biology</i> , <b>2012</b> , 16, 285-91	9.7	80
221	New tools for reconstruction and heterologous expression of natural product biosynthetic gene clusters. <i>Natural Product Reports</i> , <b>2016</b> , 33, 174-82	15.1	77
220	Breaking the silence: new strategies for discovering novel natural products. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 48, 21-27	11.4	76

219	Metabolic engineering of a <i>Saccharomyces cerevisiae</i> strain capable of simultaneously utilizing glucose and galactose to produce enantiopure (2R,3R)-butanediol. <i>Metabolic Engineering</i> , <b>2014</b> , 23, 92-99	9.7	76
218	Computational design of <i>Candida boidinii</i> xylose reductase for altered cofactor specificity. <i>Protein Science</i> , <b>2009</b> , 18, 2125-38	6.3	76
217	Recent advances in engineering proteins for biocatalysis. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1273-87	4.9	71
216	Utilizing an endogenous pathway for 1-butanol production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , <b>2014</b> , 22, 60-8	9.7	69
215	Comparative biochemical characterization of three exolytic oligoalginate lyases from <i>Vibrio splendidus</i> reveals complementary substrate scope, temperature, and pH adaptations. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 4207-14	4.8	68
214	The use of dynamic light scattering and brownian microscopy to characterize protein aggregation. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 053106	1.7	68
213	Reversal of the TCA cycle in <i>Saccharomyces cerevisiae</i> for production of fuels and chemicals. <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 332-41	5.7	64
212	RNAi-assisted genome evolution in <i>Saccharomyces cerevisiae</i> for complex phenotype engineering. <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 283-91	5.7	63
211	In vitro Sexual Evolution through the PCR-based staggered extension process (StEP). <i>Nature Protocols</i> , <b>2006</b> , 1, 1865-71	18.8	61
210	Overcoming glucose repression in mixed sugar fermentation by co-expressing a cellobiose transporter and a $\beta$ -glucosidase in <i>Saccharomyces cerevisiae</i> . <i>Molecular BioSystems</i> , <b>2010</b> , 6, 2129-32		60
209	Recent developments in the application of P450 based biocatalysts. <i>Current Opinion in Chemical Biology</i> , <b>2018</b> , 43, 1-7	9.7	59
208	Multi-functional genome-wide CRISPR system for high throughput genotype-phenotype mapping. <i>Nature Communications</i> , <b>2019</b> , 10, 5794	17.4	57
207	Alginate lyases from alginate-degrading <i>Vibrio splendidus</i> 12B01 are endolytic. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 1865-73	4.8	56
206	Direct observation of TALE protein dynamics reveals a two-state search mechanism. <i>Nature Communications</i> , <b>2015</b> , 6, 7277	17.4	56
205	Development of a One-Pot Tandem Reaction Combining Ruthenium-Catalyzed Alkene Metathesis and Enantioselective Enzymatic Oxidation To Produce Aryl Epoxides. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3817-3822	13.1	54
204	Further improvement of phosphite dehydrogenase thermostability by saturation mutagenesis. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 99, 268-74	4.9	53
203	Design and engineering of intracellular-metabolite-sensing/regulation gene circuits in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 206-15	4.9	52
202	Activation of silent biosynthetic gene clusters using transcription factor decoys. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 111-114	11.7	51

201	Programmable DNA-Guided Artificial Restriction Enzymes. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 752-757	5.7	50
200	Protein design for pathway engineering. <i>Journal of Structural Biology</i> , <b>2014</b> , 185, 234-42	3.4	49
199	Ostwald-like ripening of the anomalous mesoscopic clusters in protein solutions. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 10657-64	3.4	49
198	Engineered pentafunctional minicellulosome for simultaneous saccharification and ethanol fermentation in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 6677-84	4.8	47
197	Exploiting <i>Issatchenkia orientalis</i> SD108 for succinic acid production. <i>Microbial Cell Factories</i> , <b>2014</b> , 13, 121	6.4	46
196	Towards a fully automated algorithm driven platform for biosystems design. <i>Nature Communications</i> , <b>2019</b> , 10, 5150	17.4	45
195	Directed evolution of a cellobiose utilization pathway in <i>Saccharomyces cerevisiae</i> by simultaneously engineering multiple proteins. <i>Microbial Cell Factories</i> , <b>2013</b> , 12, 61	6.4	45
194	Integrating biocatalysis with chemocatalysis for selective transformations. <i>Current Opinion in Chemical Biology</i> , <b>2020</b> , 55, 161-170	9.7	44
193	Aryl-aldehyde formation in fungal polyketides: discovery and characterization of a distinct biosynthetic mechanism. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 257-63		44
192	Promoter-proximal CTCF binding promotes distal enhancer-dependent gene activation. <i>Nature Structural and Molecular Biology</i> , <b>2021</b> , 28, 152-161	17.6	43
191	Investigating xylose metabolism in recombinant <i>Saccharomyces cerevisiae</i> via <sup>13</sup> C metabolic flux analysis. <i>Microbial Cell Factories</i> , <b>2013</b> , 12, 114	6.4	41
190	Recent advances in combinatorial biosynthesis for drug discovery. <i>Drug Design, Development and Therapy</i> , <b>2015</b> , 9, 823-33	4.4	40
189	Modular assembly of designer PUF proteins for specific post-transcriptional regulation of endogenous RNA. <i>Journal of Biological Engineering</i> , <b>2014</b> , 8, 7	6.3	40
188	Construction of plasmids with tunable copy numbers in <i>Saccharomyces cerevisiae</i> and their applications in pathway optimization and multiplex genome integration. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 2462-73	4.9	40
187	Production of Adipic Acid from Sugar Beet Residue by Combined Biological and Chemical Catalysis. <i>ChemCatChem</i> , <b>2016</b> , 8, 1500-1506	5.2	38
186	Cooperative Tandem Catalysis by an Organometallic Complex and a Metalloenzyme. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 475-479	3.6	38
185	TALE proteins search DNA using a rotationally decoupled mechanism. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 831-7	11.7	37
184	Directed evolution of xylose specific transporters to facilitate glucose-xylose co-utilization. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 484-91	4.9	37

183	Metabolic engineering of <i>Saccharomyces cerevisiae</i> to produce 1-hexadecanol from xylose. <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 24	6.4	37
182	Directed Evolution: Methodologies and Applications. <i>Chemical Reviews</i> , <b>2021</b> , 121, 12384-12444	68.1	37
181	Advancing Metabolic Engineering of <i>Saccharomyces cerevisiae</i> Using the CRISPR/Cas System. <i>Biotechnology Journal</i> , <b>2018</b> , 13, e1700601	5.6	34
180	CmlI is an -oxygenase in the biosynthesis of chloramphenicol. <i>Tetrahedron</i> , <b>2012</b> , 68,	2.4	34
179	Engineered CRISPR/Cas9 system for multiplex genome engineering of polyploid industrial yeast strains. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1630-1635	4.9	32
178	Directed evolution of a cellodextrin transporter for improved biofuel production under anaerobic conditions in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1521-31	4.9	32
177	Directed evolution of a highly efficient cellobiose utilizing pathway in an industrial <i>Saccharomyces cerevisiae</i> strain. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 2874-81	4.9	31
176	Discovery and engineering of a 1-butanol biosensor in <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , <b>2017</b> , 245, 1343-1351	11	31
175	Rapid prototyping of microbial cell factories via genome-scale engineering. <i>Biotechnology Advances</i> , <b>2015</b> , 33, 1420-32	17.8	30
174	Towards oilcane: Engineering hyperaccumulation of triacylglycerol into sugarcane stems. <i>GCB Bioenergy</i> , <b>2020</b> , 12, 476-490	5.6	30
173	Orthogonal Fatty Acid Biosynthetic Pathway Improves Fatty Acid Ethyl Ester Production in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , <b>2015</b> , 4, 808-14	5.7	30
172	Protein and RNA engineering to customize microbial molecular reporting. <i>Biotechnology Journal</i> , <b>2012</b> , 7, 477-99	5.6	30
171	Orthogonal Genetic Regulation in Human Cells Using Chemically Induced CRISPR/Cas9 Activators. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 686-693	5.7	29
170	CRISPR/Cas9-mediated knock-in of an optimized TetO repeat for live cell imaging of endogenous loci. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, e100	20.1	29
169	Characterization and Engineering of the Adenylation Domain of a NRPS-Like Protein: A Potential Biocatalyst for Aldehyde Generation. <i>ACS Catalysis</i> , <b>2014</b> , 4, 1219-1225	13.1	29
168	Genome-wide RNAi screen reveals the E3 SUMO-protein ligase gene SIZ1 as a novel determinant of furfural tolerance in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 78	7.8	29
167	Expanding the boundary of biocatalysis: design and optimization of in vitro tandem catalytic reactions for biochemical production. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2018</b> , 53, 115-129	8.7	28
166	Fully Automated One-Step Synthesis of Single-Transcript TALEN Pairs Using a Biological Foundry. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 678-685	5.7	27

165	Combining Rh-Catalyzed Diazocoupling and Enzymatic Reduction To Efficiently Synthesize Enantioenriched 2-Substituted Succinate Derivatives. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2548-2552	13.1	27
164	A comprehensive genome-scale model for IFO0880 accounting for functional genomics and phenotypic data. <i>Metabolic Engineering Communications</i> , <b>2019</b> , 9, e00101	6.5	26
163	Replication timing maintains the global epigenetic state in human cells. <i>Science</i> , <b>2021</b> , 372, 371-378	33.3	24
162	Characterization of the N-oxygenase AurF from <i>Streptomyces thioletus</i> . <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 5569-77	3.4	23
161	TALEN outperforms Cas9 in editing heterochromatin target sites. <i>Nature Communications</i> , <b>2021</b> , 12, 60617.4	17.4	23
160	A plug-and-play pathway refactoring workflow for natural product research in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 1847-1854	4.9	22
159	Development of a CRISPR/Cas9 system for high efficiency multiplexed gene deletion in <i>Rhodospiridium toruloides</i> . <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 2103-2109	4.9	22
158	Level of Fimbriation Alters the Adhesion of <i>Escherichia coli</i> Bacteria to Interfaces. <i>Langmuir</i> , <b>2018</b> , 34, 1133-1142	4	22
157	An efficient gene knock-in strategy using 5Smodified double-stranded DNA donors with short homology arms. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 387-390	11.7	22
156	Characterization of <i>Bacillus subtilis</i> Colony Biofilms via Mass Spectrometry and Fluorescence Imaging. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 1955-62	5.6	22
155	Manipulating natural product biosynthetic pathways via DNA assembler. <i>Current Protocols in Chemical Biology</i> , <b>2014</b> , 6, 65-100	1.8	21
154	Computational Tools for Discovering and Engineering Natural Product Biosynthetic Pathways. <i>IScience</i> , <b>2020</b> , 23, 100795	6.1	21
153	Cloning and characterization of a galactitol 2-dehydrogenase from <i>Rhizobium leguminosarum</i> and its application in D-tagatose production. <i>Enzyme and Microbial Technology</i> , <b>2014</b> , 58-59, 44-51	3.8	19
152	A brief overview of synthetic biology research programs and roadmap studies in the United States. <i>Synthetic and Systems Biotechnology</i> , <b>2016</b> , 1, 258-264	4.2	18
151	New and improved tools and methods for enhanced biosynthesis of natural products in microorganisms. <i>Current Opinion in Biotechnology</i> , <b>2016</b> , 42, 159-168	11.4	18
150	Use of genome-editing tools to treat sickle cell disease. <i>Human Genetics</i> , <b>2016</b> , 135, 1011-28	6.3	18
149	A rapid, accurate, scalable, and portable testing system for COVID-19 diagnosis. <i>Nature Communications</i> , <b>2021</b> , 12, 2905	17.4	18
148	Quantifying the effects of pollen nutrition on honey bee queen egg laying with a new laboratory system. <i>PLoS ONE</i> , <b>2018</b> , 13, e0203444	3.7	18

147	A Continuing Career in Biocatalysis: Frances H. Arnold. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9775-9788	13.1	17
146	Highly Efficient Single-Pot Scarless Golden Gate Assembly. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1047-1054	5.7	17
145	Biosystems design by directed evolution. <i>AIChE Journal</i> , <b>2020</b> , 66, e16716	3.6	17
144	Regulatory RNA-assisted genome engineering in microorganisms. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 36, 85-90	11.4	16
143	Directed Evolution to Engineer Monobody for FRET Biosensor Assembly and Imaging at Live-Cell Surface. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 370-379.e4	8.2	16
142	Development of a CRISPR/Cas9-Based Tool for Gene Deletion in. <i>MSphere</i> , <b>2019</b> , 4,	5	16
141	Genetics, Genetic Manipulation, and Approaches to Strain Improvement of Filamentous Fungi <b>2014</b> , 318-329		16
140	Discovery of a Phosphonoacetic Acid Derived Natural Product by Pathway Refactoring. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 217-223	5.7	15
139	Unraveling the iterative type I polyketide synthases hidden in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 8449-8454	11.5	15
138	Targeting Specificity of the CRISPR/Cas9 System. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 1609-1613	5.7	15
137	Accelerated genome engineering through multiplexing. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2016</b> , 8, 5-21	6.6	15
136	Biosensor-guided improvements in salicylate production by recombinant Escherichia coli. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 18	6.4	14
135	A genetic toolbox for metabolic engineering of Issatchenkia orientalis. <i>Metabolic Engineering</i> , <b>2020</b> , 59, 87-97	9.7	14
134	Functional Reconstitution of a Pyruvate Dehydrogenase in the Cytosol of Saccharomyces cerevisiae through Lipoylation Machinery Engineering. <i>ACS Synthetic Biology</i> , <b>2016</b> , 5, 689-97	5.7	14
133	Engineering Escherichia coli to increase triacetic acid lactone (TAL) production using an optimized TAL sensor-reporter system. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2018</b> , 45, 789-793	4.2	14
132	Investigating glucose and xylose metabolism in Saccharomyces cerevisiae and Scheffersomyces stipitis via <sup>13</sup> C metabolic flux analysis. <i>AIChE Journal</i> , <b>2013</b> , 59, 3195-3202	3.6	14
131	Combinatorial pathway engineering for optimized production of the anti-malarial FR900098. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 384-92	4.9	14
130	Rapid and efficient galactose fermentation by engineered Saccharomyces cerevisiae. <i>Journal of Biotechnology</i> , <b>2016</b> , 229, 13-21	3.7	14



129	Flexible and Versatile Strategy for the Construction of Large Biochemical Pathways. <i>ACS Synthetic Biology</i> , <b>2016</b> , 5, 46-52	5.7	13
128	Fine-tuning the regulation of Cas9 expression levels for efficient CRISPR-Cas9 mediated recombination in <i>Streptomyces</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2020</b> , 47, 413-423	4.2	13
127	A mass spectrometry-based high-throughput screening method for engineering fatty acid synthases with improved production of medium-chain fatty acids. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 2131-2138	4.9	13
126	Identification of an important motif that controls the activity and specificity of sugar transporters. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 1460-7	4.9	13
125	Unlocking nature's biosynthetic potential by directed genome evolution. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 66, 95-104	11.4	13
124	Rapid Screening of Lanthipeptide Analogs via In-Colony Removal of Leader Peptides in <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11884-11888	16.4	13
123	A Scalable Epitope Tagging Approach for High Throughput CHIP-Seq Analysis. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 1034-1042	5.7	12
122	Standardization for natural product synthetic biology. <i>Natural Product Reports</i> , <b>2016</b> , 33, 920-4	15.1	11
121	ARHGEF3 Regulates Skeletal Muscle Regeneration and Strength through Autophagy. <i>Cell Reports</i> , <b>2021</b> , 34, 108594	10.6	11
120	Discovery and Characterization of a Class IV Lanthipeptide with a Nonoverlapping Ring Pattern. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 1642-1649	4.9	10
119	Recent advances in domesticating non-model microorganisms. <i>Biotechnology Progress</i> , <b>2020</b> , 36, e3008	2.8	10
118	RNAi assisted genome evolution unveils yeast mutants with improved xylose utilization. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1552-1560	4.9	10
117	A transaldolase-dependent sulfoglycolysis pathway in <i>Bacillus megaterium</i> DSM 1804. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 533, 1109-1114	3.4	10
116	Directed Enzyme Evolution and High-Throughput Screening		9
115	New N-acetyltransferase fold in the structure and mechanism of the phosphonate biosynthetic enzyme FrbF. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 36132-36141	5.4	8
114	Metabolic engineering of threonine catabolism enables <i>Saccharomyces cerevisiae</i> to produce propionate under aerobic conditions. <i>Biotechnology Journal</i> , <b>2022</b> , e2100579	5.6	8
113	Engineering oleaginous yeast <i>Rhodotorula toruloides</i> for overproduction of fatty acid ethyl esters. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 115	7.8	8
112	Analysis of amino acid substitutions in AraC variants that respond to triacetic acid lactone. <i>Protein Science</i> , <b>2016</b> , 25, 804-14	6.3	8

111	Cas12a-assisted precise targeted cloning using in vivo Cre-lox recombination. <i>Nature Communications</i> , <b>2021</b> , 12, 1171	17.4	8
110	Inducible Control of mRNA Transport Using Reprogrammable RNA-Binding Proteins. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 950-956	5.7	7
109	Pathway Design, Engineering, and Optimization. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2018</b> , 162, 77-116	1.7	7
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