Ye Li

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9,435 254 52 92 h-index g-index citations papers 8.8 6.89 11,711 271 L-index avg, IF ext. citations ext. papers

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

(2017-2018)

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

219	Metabolic engineering of a Saccharomyces cerevisiae strain capable of simultaneously utilizing glucose and galactose to produce enantiopure (2R,3R)-butanediol. <i>Metabolic Engineering</i> , 2014 , 23, 92-9	9.7	76
218	Computational design of Candida boidinii xylose reductase for altered cofactor specificity. <i>Protein Science</i> , 2009 , 18, 2125-38	6.3	76
217	Recent advances in engineering proteins for biocatalysis. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1273-87	4.9	71
216	Utilizing an endogenous pathway for 1-butanol production in Saccharomyces cerevisiae. <i>Metabolic Engineering</i> , 2014 , 22, 60-8	9.7	69
215	Comparative biochemical characterization of three exolytic oligoalginate lyases from Vibrio splendidus reveals complementary substrate scope, temperature, and pH adaptations. <i>Applied and Environmental Microbiology</i> , 2014 , 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> , 2011 , 82, 053106	1.7	68
213	Reversal of the Ebxidation cycle in Saccharomyces cerevisiae for production of fuels and chemicals. <i>ACS Synthetic Biology</i> , 2015 , 4, 332-41	5.7	64
212	RNAi-assisted genome evolution in Saccharomyces cerevisiae for complex phenotype engineering. <i>ACS Synthetic Biology</i> , 2015 , 4, 283-91	5.7	63
211	In vitro SexualSevolution through the PCR-based staggered extension process (StEP). <i>Nature Protocols</i> , 2006 , 1, 1865-71	18.8	61
210	Overcoming glucose repression in mixed sugar fermentation by co-expressing a cellobiose transporter and a Eglucosidase in Saccharomyces cerevisiae. <i>Molecular BioSystems</i> , 2010 , 6, 2129-32		60
209	Recent developments in the application of P450 based biocatalysts. <i>Current Opinion in Chemical Biology</i> , 2018 , 43, 1-7	9.7	59
208	Multi-functional genome-wide CRISPR system for high throughput genotype-phenotype mapping. <i>Nature Communications</i> , 2019 , 10, 5794	17.4	57
207	Alginate lyases from alginate-degrading Vibrio splendidus 12B01 are endolytic. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1865-73	4.8	56
206	Direct observation of TALE protein dynamics reveals a two-state search mechanism. <i>Nature Communications</i> , 2015 , 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> , 2015 , 5, 3817-3822	13.1	54
204	Further improvement of phosphite dehydrogenase thermostability by saturation mutagenesis. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 268-74	4.9	53
203	Design and engineering of intracellular-metabolite-sensing/regulation gene circuits in Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 206-15	4.9	52
202	Activation of silent biosynthetic gene clusters using transcription factor decoys. <i>Nature Chemical Biology</i> , 2019 , 15, 111-114	11.7	51

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

183	Metabolic engineering of Saccharomyces cerevisiae to produce 1-hexadecanol from xylose. <i>Microbial Cell Factories</i> , 2016 , 15, 24	6.4	37
182	Directed Evolution: Methodologies and Applications. <i>Chemical Reviews</i> , 2021 , 121, 12384-12444	68.1	37
181	Advancing Metabolic Engineering of Saccharomyces cerevisiae Using the CRISPR/Cas System. <i>Biotechnology Journal</i> , 2018 , 13, e1700601	5.6	34
180	Cmll is an -oxygenase in the biosynthesis of chloramphenicol. <i>Tetrahedron</i> , 2012 , 68,	2.4	34
179	Engineered CRISPR/Cas9 system for multiplex genome engineering of polyploid industrial yeast strains. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 1630-1635	4.9	32
178	Directed evolution of a cellodextrin transporter for improved biofuel production under anaerobic conditions in Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1521-31	4.9	32
177	Directed evolution of a highly efficient cellobiose utilizing pathway in an industrial Saccharomyces cerevisiae strain. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2874-81	4.9	31
176	Discovery and engineering of a 1-butanol biosensor in Saccharomyces cerevisiae. <i>Bioresource Technology</i> , 2017 , 245, 1343-1351	11	31
175	Rapid prototyping of microbial cell factories via genome-scale engineering. <i>Biotechnology Advances</i> , 2015 , 33, 1420-32	17.8	30
174	Towards oilcane: Engineering hyperaccumulation of triacylglycerol into sugarcane stems. <i>GCB Bioenergy</i> , 2020 , 12, 476-490	5.6	30
173	Orthogonal Fatty Acid Biosynthetic Pathway Improves Fatty Acid Ethyl Ester Production in Saccharomyces cerevisiae. <i>ACS Synthetic Biology</i> , 2015 , 4, 808-14	5.7	30
172	Protein and RNA engineering to customize microbial molecular reporting. <i>Biotechnology Journal</i> , 2012 , 7, 477-99	5.6	30
171	Orthogonal Genetic Regulation in Human Cells Using Chemically Induced CRISPR/Cas9 Activators. <i>ACS Synthetic Biology</i> , 2017 , 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> , 2018 , 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> , 2014 , 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 Saccharomyces cerevisiae. <i>Biotechnology for Biofuels</i> , 2014 , 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> , 2018 , 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> , 2017 , 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> , 2017 , 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> , 2019 , 9, e00101	6.5	26
163	Replication timing maintains the global epigenetic state in human cells. <i>Science</i> , 2021 , 372, 371-378	33.3	24
162	Characterization of the N-oxygenase AurF from Streptomyces thioletus. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 5569-77	3.4	23
161	TALEN outperforms Cas9 in editing heterochromatin target sites. <i>Nature Communications</i> , 2021 , 12, 600	617.4	23
160	A plug-and-play pathway refactoring workflow for natural product research in Escherichia coli and Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1847-1854	4.9	22
159	Development of a CRISPR/Cas9 system for high efficiency multiplexed gene deletion in Rhodosporidium toruloides. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2103-2109	4.9	22
158	Level of Fimbriation Alters the Adhesion of Escherichia coli Bacteria to Interfaces. <i>Langmuir</i> , 2018 , 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> , 2020 , 16, 387-390	11.7	22
156	Characterization of Bacillus subtilis Colony Biofilms via Mass Spectrometry and Fluorescence Imaging. <i>Journal of Proteome Research</i> , 2016 , 15, 1955-62	5.6	22
155	Manipulating natural product biosynthetic pathways via DNA assembler. <i>Current Protocols in Chemical Biology</i> , 2014 , 6, 65-100	1.8	21
154	Computational Tools for Discovering and Engineering Natural Product Biosynthetic Pathways. <i>IScience</i> , 2020 , 23, 100795	6.1	21
153	Cloning and characterization of a galactitol 2-dehydrogenase from Rhizobium legumenosarum and its application in D-tagatose production. <i>Enzyme and Microbial Technology</i> , 2014 , 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> , 2016 , 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> , 2016 , 42, 159-168	11.4	18
150	Use of genome-editing tools to treat sickle cell disease. <i>Human Genetics</i> , 2016 , 135, 1011-28	6.3	18
149	A rapid, accurate, scalable, and portable testing system for COVID-19 diagnosis. <i>Nature Communications</i> , 2021 , 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> , 2018 , 13, e0203444	3.7	18

147	A Continuing Career in Biocatalysis: Frances H. Arnold. ACS Catalysis, 2019, 9, 9775-9788	13.1	17
146	Highly Efficient Single-Pot Scarless Golden Gate Assembly. ACS Synthetic Biology, 2019 , 8, 1047-1054	5.7	17
145	Biosystems design by directed evolution. AICHE Journal, 2020, 66, e16716	3.6	17
144	Regulatory RNA-assisted genome engineering in microorganisms. <i>Current Opinion in Biotechnology</i> , 2015 , 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> , 2018 , 25, 370-379.e4	8.2	16
142	Development of a CRISPR/Cas9-Based Tool for Gene Deletion in. <i>MSphere</i> , 2019 , 4,	5	16
141	Genetics, Genetic Manipulation, and Approaches to Strain Improvement of Filamentous Fungi 2014 , 31	8-329	16
140	Discovery of a Phosphonoacetic Acid Derived Natural Product by Pathway Refactoring. <i>ACS Synthetic Biology</i> , 2017 , 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> , 2020 , 117, 8449-8454	11.5	15
138	Targeting Specificity of the CRISPR/Cas9 System. ACS Synthetic Biology, 2017, 6, 1609-1613	5.7	15
137	Accelerated genome engineering through multiplexing. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016 , 8, 5-21	6.6	15
136	Biosensor-guided improvements in salicylate production by recombinant Escherichia coli. <i>Microbial Cell Factories</i> , 2019 , 18, 18	6.4	14
135	A genetic toolbox for metabolic engineering of Issatchenkia orientalis. <i>Metabolic Engineering</i> , 2020 , 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> , 2016 , 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> , 2018 , 45, 789-793	4.2	14
132	Investigating glucose and xylose metabolism in Saccharomyces cerevisiae and Scheffersomyces stipitis via 13C metabolic flux analysis. <i>AICHE Journal</i> , 2013 , 59, 3195-3202	3.6	14
131	Combinatorial pathway engineering for optimized production of the anti-malarial FR900098. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 384-92	4.9	14
130	Rapid and efficient galactose fermentation by engineered Saccharomyces cerevisiae. <i>Journal of Biotechnology</i> , 2016 , 229, 13-21	3.7	14

129	Flexible and Versatile Strategy for the Construction of Large Biochemical Pathways. <i>ACS Synthetic Biology</i> , 2016 , 5, 46-52	5.7	13	
128	Fine-tuning the regulation of Cas9 expression levels for efficient CRISPR-Cas9 mediated recombination in Streptomyces. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020 , 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> , 2020 , 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> , 2016 , 113, 1460-7	4.9	13	
125	Unlocking natures biosynthetic potential by directed genome evolution. <i>Current Opinion in Biotechnology</i> , 2020 , 66, 95-104	11.4	13	
124	Rapid Screening of Lanthipeptide Analogs via In-Colony Removal of Leader Peptides in Escherichia coli. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11884-11888	16.4	13	
123	A Scalable Epitope Tagging Approach for High Throughput ChIP-Seq Analysis. <i>ACS Synthetic Biology</i> , 2017 , 6, 1034-1042	5.7	12	
122	Standardization for natural product synthetic biology. <i>Natural Product Reports</i> , 2016 , 33, 920-4	15.1	11	
121	ARHGEF3 Regulates Skeletal Muscle Regeneration and Strength through Autophagy. <i>Cell Reports</i> , 2021 , 34, 108594	10.6	11	
120	Discovery and Characterization of a Class IV Lanthipeptide with a Nonoverlapping Ring Pattern. ACS Chemical Biology, 2020 , 15, 1642-1649	4.9	10	
119	Recent advances in domesticating non-model microorganisms. <i>Biotechnology Progress</i> , 2020 , 36, e3008	2.8	10	
118	RNAi assisted genome evolution unveils yeast mutants with improved xylose utilization. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 1552-1560	4.9	10	
117	A transaldolase-dependent sulfoglycolysis pathway in Bacillus megaterium DSM 1804. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 533, 1109-1114	3.4	10	
116	Directed Enzyme Evolution and High-Throughput Screening45-64		9	
115	New N-acetyltransferase fold in the structure and mechanism of the phosphonate biosynthetic enzyme FrbF. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36132-36141	5.4	8	
114	Metabolic engineering of threonine catabolism enables Saccharomyces cerevisiae to produce propionate under aerobic conditions <i>Biotechnology Journal</i> , 2022 , e2100579	5.6	8	
113	Engineering oleaginous yeast Rhodotorula toruloides for overproduction of fatty acid ethyl esters. <i>Biotechnology for Biofuels</i> , 2021 , 14, 115	7.8	8	
112	Analysis of amino acid substitutions in AraC variants that respond to triacetic acid lactone. <i>Protein Science</i> , 2016 , 25, 804-14	6.3	8	

111	Cas12a-assisted precise targeted cloning using in vivo Cre-lox recombination. <i>Nature Communications</i> , 2021 , 12, 1171	17.4	8
110	Inducible Control of mRNA Transport Using Reprogrammable RNA-Binding Proteins. <i>ACS Synthetic Biology</i> , 2017 , 6, 950-956	5.7	7
109	Pathway Design, Engineering, and Optimization. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2018 , 162, 77-116	1.7	7
108	Members of the Rusc protein family interact with Sufu and inhibit vertebrate Hedgehog signaling. <i>Development (Cambridge)</i> , 2016 , 143, 3944-3955	6.6	7
107	Selective Isolation of Actinobacteria 2014 , 13-27		7
106	Mammalian Cell Culture for Biopharmaceutical Production 2014 , 157-178		6
105	Protein Engineering as an Enabling Tool for Synthetic Biology 2013 , 23-42		6
104	Two evolutionarily duplicated domains individually and post-transcriptionally control SWEET expression for phloem transport. <i>New Phytologist</i> , 2021 , 232, 1793-1807	9.8	6
103	ECNet is an evolutionary context-integrated deep learning framework for protein engineering. <i>Nature Communications</i> , 2021 , 12, 5743	17.4	6
102	Genome-scale metabolic reconstruction of the non-model yeast SD108 and its application to organic acids production. <i>Metabolic Engineering Communications</i> , 2020 , 11, e00148	6.5	5
101	Functional enrichment by direct plasmid recovery after fluorescence activated cell sorting. <i>BioTechniques</i> , 2015 , 59, 157-61	2.5	5
100	Raw Materials Selection and Medium Development for Industrial Fermentation Processes 2014 , 659-66	8	4
99	New Approaches to Microbial Isolation 2014 , 3-12		4
98	Construction and Screening of an Antigen-Derived Peptide Library Displayed on Yeast Cell Surface for CD4+ T Cell Epitope Identification. <i>Methods in Molecular Biology</i> , 2019 , 2024, 213-234	1.4	3
97	Scale-Up of Microbial Fermentation Process 2014 , 669-675		3
96	Insect Cell Culture 2014 , 212-222		3
95	Precise Regulation of Cas9-Mediated Genome Engineering by Anti-CRISPR-Based Inducible CRISPR Controllers. <i>ACS Synthetic Biology</i> , 2021 , 10, 1320-1327	5.7	3
94	Identification of novel metabolic engineering targets for S-adenosyl-L-methionine production in Saccharomyces cerevisiae via genome-scale engineering. <i>Metabolic Engineering</i> , 2021 , 66, 319-327	9.7	3

93	Development of Host-Orthogonal Genetic Systems for Synthetic Biology. <i>Advanced Biology</i> , 2021 , 5, e2000252		3
92	Bioreactor Automation 2014 , 719-730		2
91	Biomass-Converting Enzymes and Their Bioenergy Applications 2014 , 495-508		2
90	Physiological and Methodological Aspects of Cellulolytic Microbial Cultures 2014 , 644-656		2
89	Biosynthetic engineering of the antifungal, anti-MRSA auroramycin. <i>Microbial Cell Factories</i> , 2020 , 19, 3	6.4	2
88	macroMS: Image-Guided Analysis of Random Objects by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1180-1188	3.5	2
87	Combined and Iterative Use of Computational Design and Directed Evolution for Protein-Ligand Binding Design. <i>Methods in Molecular Biology</i> , 2016 , 1414, 139-53	1.4	2
86	RNAi-Assisted Genome Evolution (RAGE) in Saccharomyces cerevisiae. <i>Methods in Molecular Biology</i> , 2016 , 1470, 183-98	1.4	2
85	Metabolic Engineering of Saccharomyces cerevisiae Using a Trifunctional CRISPR/Cas System for Simultaneous Gene Activation, Interference, and Deletion. <i>Methods in Enzymology</i> , 2018 , 608, 265-276	1.7	2
84	Iterative Saturation Mutagenesis for Semi-rational Enzyme Design 2021 , 105-132		2
83	Unleashing the power of energy storage: Engineering Ebxidation pathways for polyketide production. <i>Synthetic and Systems Biotechnology</i> , 2020 , 5, 21-22	4.2	1
82	Applying Advanced DNA Assembly Methods to Generate Pathway Libraries 2018, 331-347		1
81	Tools for Enzyme Discovery 2014 , 441-452		1
80	Heterologous Protein Expression in Yeasts and Filamentous Fungi 2014 , 145-156		1
79	Continuous Culture 2014 , 685-699		1
78	SynV and SynX: A story more than DNA synthesis. <i>Science China Life Sciences</i> , 2017 , 60, 558-560	8.5	1
77	Bacterial Cultivation for Production of Proteins and Other Biological Products 2014 , 132-144		1
76	Taxonomic Characterization of Prokaryotic Microorganisms 2014 , 28-42		1

75	Enzymes from Extreme Environments 2014 , 43-61		1
74	Strategies for Accessing Microbial Secondary Metabolites from Silent Biosynthetic Pathways 2014 , 78-	95	1
73	Altering Enzyme Substrate and Cofactor Specificity via Protein Engineering 2011, 777-796		1
72	Engineering sensitivity and specificity of AraC-based biosensors responsive to triacetic acid lactone and orsellinic acid. <i>Protein Engineering, Design and Selection</i> , 2020 , 33,	1.9	1
71	Two-Color Imaging of Nonrepetitive Endogenous Loci in Human Cells. <i>ACS Synthetic Biology</i> , 2020 , 9, 2502-2514	5.7	1
70	Structural and Biochemical Investigation of UTP Cyclohydrolase. ACS Catalysis, 2021, 11, 8895-8901	13.1	1
69	Can Deep Learning Solve the Cas9 Dilemma?. CRISPR Journal, 2021, 4, 13-15	2.5	1
68	Expanding the Potential of Mammalian Genome Engineering Targeted DNA Integration. <i>ACS Synthetic Biology</i> , 2021 , 10, 429-446	5.7	1
67	Protein Engineering by Efficient Sequence Space Exploration Through Combination of Directed Evolution and Computational Design Methodologies 2021 , 153-176		1
66	Directing Evolution of the Fungal Ligninolytic Secretome295-315		1
65	Engineering Antibody-Based Therapeutics: Progress and Opportunities317-351		1
64	Engineering Artificial Metalloenzymes177-205		1
63	Metabolic engineering of Rhodotorula toruloides IFO0880 improves C16 and C18 fatty alcohol production from synthetic media <i>Microbial Cell Factories</i> , 2022 , 21, 26	6.4	1
62	Genetic Engineering Tools for Saccharomyces cerevisiae 2014 , 287-301		O
61	Engineering Escherichia coli for anaerobic alkane activation: Biosynthesis of (1-methylalkyl)succinates. <i>Biotechnology and Bioengineering</i> , 2022 , 119, 315-320	4.9	О
60	Cloning and characterization of a panel of mitochondrial targeting sequences for compartmentalization engineering in Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 4269-4277	4.9	O
59	Data-driven Protein Engineering 2021 , 133-151		0
58	Protein Engineering Using Unnatural Amino Acids243-264		O

57	High-Throughput Mass Spectrometry Complements Protein Engineering 2021, 57-79		О
56	PlasmidMaker is a versatile, automated, and high throughput end-to-end platform for plasmid construction <i>Nature Communications</i> , 2022 , 13, 2697	17.4	Ο
55	Optically guided mass spectrometry to screen microbial colonies for directed enzyme evolution. <i>Methods in Enzymology</i> , 2020 , 644, 255-273	1.7	
54	Commemorating Frances Arnold. <i>AICHE Journal</i> , 2020 , 66, e16924	3.6	
53	Design and characterization of new liglucuronidase active site variants with altered substrate specificity. <i>Biotechnology Letters</i> , 2018 , 40, 111-118	3	
52	High-Throughput Screening or Selection Methods for Evolutionary Enzyme Engineering 2016 , 707-744		
51	Glycosylation of Secondary Metabolites To Produce Novel Compounds 2014, 347-363		
50	Plant Cell Culture 2014 , 196-211		
49	Enzyme Promiscuity and Evolution of New Protein Functions 2014 , 524-538		
48	Microalgal Culture as a Feedstock for Bioenergy, Chemicals, and Nutrition 2014 , 577-590		
47	Improving Microbial Robustness Using Systems Biology 2014 , 605-620		
46	Genetic Manipulation of Myxobacteria 2014 , 262-272		
45	Strain Improvement of Escherichia coli To Enhance Recombinant Protein Production 2014 , 273-286		
44	Genetic Engineering of Acidic Lipopeptide Antibiotics 2014 , 391-410		
43	Genetic Engineering To Regulate Production of Secondary Metabolites in Streptomyces clavuligerus 2014 , 411-425		
42	Genetic Engineering of Myxobacterial Natural Product Biosynthetic Genes 2014 , 426-437		
41	Enzyme Production in Escherichia coli 2014 , 539-548		
40	Bioprocess Development 2014 , 549-562		

Accessing Microbial Communities Relevant to Biofuels Production 2014, 565-576 39 Bioethanol Production from Lignocellulosics: Some Process Considerations and Procedures 2014, 621-633 38 Purification and Characterization of Proteins 2014, 731-742 37 Cell Culture Bioreactors: Controls, Measurements, and Scale-Down Model 2014, 676-684 36 Protein Expression in Nonconventional Yeasts 2014, 302-317 35 Metabolic Engineering of Escherichia coli for the Production of a Precursor to Artemisinin, an 34 Antimalarial Drug 2014, 364-379 Enzyme Engineering: Combining Computational Approaches with Directed Evolution 2014, 453-465 33 Genetic Engineering of Corynebacteria 2014, 225-237 32 The Use of Enzymes for Nonaqueous Organic Transformations 2014, 509-523 31 30 Surface Microbiology of Cellulolytic Bacteria 2014, 634-643 Enzyme Engineering by Directed Evolution 2014, 466-479 29 Genetic Manipulation of Clostridium 2014, 238-261 28 Cell-Based Screening Methods for Anti-Infective Compounds 2014, 62-72 27 Advances in Sensor and Sampling Technologies in Fermentation and Mammalian Cell Culture 2014, 700-718 26 Metabolomics for the Discovery of Novel Compounds 2014, 73-77 25 Miniaturization of Fermentations 2014, 99-116 24 Solid-Phase Fermentation: Aerobic and Anaerobic 2014, 117-131 23 Isolation and Screening for Secondary Metabolites 2014, 1-2 22

21	Fermentation and Cell Culture 2014 , 97-98
20	Genetics, Strain Improvement, and Recombinant Proteins 2014 , 223-224
19	Genetic Engineering of Secondary Metabolite Synthesis 2014 , 345-346
18	Industrial Enzymes, Biocatalysis, and Enzyme Evolution 2014 , 439-439
17	Microbial Fuels (Biofuels) and Fine Chemicals 2014 , 563-564
16	Biological Engineering and Scale-Up of Industrial Processes 2014 , 657-658
15	Heterologous Production of Polyketides in Streptomyces coelicolor and Escherichia coli 2014 , 380-390
14	Manufacture of Mammalian Cell Biopharmaceuticals 2014 , 179-195
13	Genetic Manipulation of Mammalian Cells for Protein Expression 2014, 330-344
12	Drug Discovery and Development by Combinatorial Biosynthesis 2011 , 251-283
11	Directed Evolution: Novel and Improved Enzymes 2008 , 1
10	Design and characterization of a salicylic acid-inducible gene expression system for Jurkat cells <i>Journal of Biotechnology</i> , 2022 , 346, 11-11
9	Strain Improvement via Evolutionary Engineering111-131
8	Biocatalysis for Drug Discovery and Development 2016 , 421-455
7	Application of Engineered Biocatalysts for the Synthesis of Active Pharmaceutical Ingredients (APIs)265-294
6	In Vivo Biosensors for Directed Protein Evolution29-55
5	Programming Novel Cancer Therapeutics: Design Principles for Chimeric Antigen Receptors 2021 , 353-375
4	Engineered Cytochromes P 450 for Biocatalysis207-242

- 3 Development of Novel Cellular Imaging Tools Using Protein Engineering 2021, 377-402
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- Recent Advances in Cell Surface Display Technologies for Directed Protein Evolution **2021**, 81-103