

Akihiko Kondo

List of Publications by Year in Descending Order

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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.

212
papers

8,000
citations

47
h-index

79
g-index

229
ext. papers

9,561
ext. citations

7.3
avg, IF

6.37
L-index

#	Paper	IF	Citations
212	Metabolomics-based engineering for biofuel and bio-based chemical production in microalgae and cyanobacteria: A review. <i>Bioresource Technology</i> , 2022 , 344, 126196	11	5
211	Machine learning discovery of missing links that mediate alternative branches to plant alkaloids.. <i>Nature Communications</i> , 2022 , 13, 1405	17.4	0
210	Integrated bioconversion process for biodiesel production utilizing waste from the palm oil industry. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107550	6.8	1
209	In Silico Design Strategies for the Production of Target Chemical Compounds Using Iterative Single-Level Linear Programming Problems. <i>Biomolecules</i> , 2022 , 12, 620	5.9	
208	Resveratrol production from several types of saccharide sources by a recombinant strain. <i>Metabolic Engineering Communications</i> , 2021 , 13, e00188	6.5	1
207	Development of mutant microalgae that accumulate lipids under nitrate-replete conditions. <i>Algal Research</i> , 2021 , 60, 102544	5	1
206	Robust and flexible platform for directed evolution of yeast genetic switches. <i>Nature Communications</i> , 2021 , 12, 1846	17.4	3
205	Future trends in synthetic biology in Asia. <i>Genetics & Genomics Next</i> , 2021 , 2, e10038	1.2	2
204	Enhancing carbohydrate repartitioning into lipid and carotenoid by disruption of microalgae starch debranching enzyme. <i>Communications Biology</i> , 2021 , 4, 450	6.7	7
203	Direct 1,3-butadiene biosynthesis in Escherichia coli via a tailored ferulic acid decarboxylase mutant. <i>Nature Communications</i> , 2021 , 12, 2195	17.4	11
202	Four-carbon dicarboxylic acid production through the reductive branch of the open cyanobacterial tricarboxylic acid cycle in Synechocystis sp. PCC 6803. <i>Metabolic Engineering</i> , 2021 , 65, 88-98	9.7	7
201	Metabolic engineering of 1,2-propanediol production from cellobiose using beta-glucosidase-expressing E. coli. <i>Bioresource Technology</i> , 2021 , 329, 124858	11	7
200	Improving the functionality of surface-engineered yeast cells by altering the cell wall morphology of the host strain. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 5895-5904	5.7	4
199	An ion-pair free LC-MS/MS method for quantitative metabolite profiling of microbial bioproduction systems. <i>Talanta</i> , 2021 , 222, 121625	6.2	5
198	CRISPR-derived genome editing technologies for metabolic engineering. <i>Metabolic Engineering</i> , 2021 , 63, 141-147	9.7	6
197	Comparative analyses of site-directed mutagenesis of human melatonin MTNR1A and MTNR1B receptors using a yeast fluorescent biosensor. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 863-876	4.9	
196	Optimization of 1,2,4-butanetriol production from xylose in Saccharomyces cerevisiae by metabolic engineering of NADH/NADPH balance. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 175-185	4.9	3

195	Growth stimulation of Bifidobacterium from human colon using daikenchuto in an in vitro model of human intestinal microbiota. <i>Scientific Reports</i> , 2021 , 11, 4580	4.9	2
194	Efficient base editing in tomato using a highly expressed transient system. <i>Plant Cell Reports</i> , 2021 , 40, 667-676	5.1	1
193	W27 IgA suppresses growth of Escherichia in an in vitro model of the human intestinal microbiota. <i>Scientific Reports</i> , 2021 , 11, 14627	4.9	1
192	Lutein production with Chlorella sorokiniana MB-1-M12 using novel two-stage cultivation strategies - metabolic analysis and process improvement. <i>Bioresource Technology</i> , 2021 , 334, 125200	11	14
191	Accelerated glucose metabolism in hyphae-dispersed Aspergillus oryzae is suitable for biological production. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 140-147	3.3	2
190	Effective bifidogenic growth factors cyclo-Val-Leu and cyclo-Val-Ile produced by Bacillus subtilis C-3102 in the human colonic microbiota model. <i>Scientific Reports</i> , 2020 , 10, 7591	4.9	5
189	Bacillus coagulans SANK 70258 suppresses Enterobacteriaceae in the microbiota of ulcerative colitis in vitro and enhances butyrogenesis in healthy microbiota. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 3859-3867	5.7	4
188	Automatic Redirection of Carbon Flux between Glycolysis and Pentose Phosphate Pathway Using an Oxygen-Responsive Metabolic Switch in. <i>ACS Synthetic Biology</i> , 2020 , 9, 814-826	5.7	14
187	Metabolic engineering of E. coli for improving mevalonate production to promote NADPH regeneration and enhance acetyl-CoA supply. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 2153-2164	4.9	9
186	Simultaneous increases in the levels of compatible solutes by cost-effective cultivation of Synechocystis sp. PCC 6803. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1649-1660	4.9	5
185	Optimal Ratio of Carbon Flux between Glycolysis and the Pentose Phosphate Pathway for Amino Acid Accumulation in. <i>ACS Synthetic Biology</i> , 2020 , 9, 1615-1622	5.7	7
184	Pyruvate metabolism redirection for biological production of commodity chemicals in aerobic fungus Aspergillus oryzae. <i>Metabolic Engineering</i> , 2020 , 61, 225-237	9.7	5
183	Exploration and Evaluation of Machine Learning-Based Models for Predicting Enzymatic Reactions. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1833-1843	6.1	7
182	Metabolic engineering of Escherichia coli for shikimate pathway derivative production from glucose-xylose co-substrate. <i>Nature Communications</i> , 2020 , 11, 279	17.4	30
181	Malic Enzyme Facilitates d-Lactate Production through Increased Pyruvate Supply during Anoxic Dark Fermentation in . PCC 6803. <i>ACS Synthetic Biology</i> , 2020 , 9, 260-268	5.7	10
180	Evaluation of the Z-BNC/LP Carrier Encapsulating an Anticancer Drug and a Radiosensitizer.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 7743-7751	4.1	0
179	Base editors for simultaneous introduction of C-to-T and A-to-G mutations. <i>Nature Biotechnology</i> , 2020 , 38, 865-869	44.5	63
178	In vitro human colonic microbiota utilises D-Hydroxybutyrate to increase butyrogenesis. <i>Scientific Reports</i> , 2020 , 10, 8516	4.9	8

177	Novel strategy for anchorage position control of GPI-attached proteins in the yeast cell wall using different GPI-anchoring domains. <i>Metabolic Engineering</i> , 2020 , 57, 110-117	9.7	15
176	Biodiesel-mediated biodiesel production: A recombinant <i>Fusarium heterosporum</i> lipase-catalyzed transesterification of crude plant oils. <i>Fuel Processing Technology</i> , 2020 , 199, 106278	7.2	12
175	Immobilized lipases for biodiesel production: Current and future greening opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110355	16.2	30
174	Valorization of palm biomass waste into carbon matrices for the immobilization of recombinant <i>Fusarium heterosporum</i> lipase towards palm biodiesel synthesis. <i>Biomass and Bioenergy</i> , 2020 , 142, 105768	5.3	11
173	Multiple gene substitution by Target-AID base-editing technology in tomato. <i>Scientific Reports</i> , 2020 , 10, 20471	4.9	13
172	Exchange of endogenous and heterogeneous yeast terminators in <i>Pichia pastoris</i> to tune mRNA stability and gene expression. <i>Nucleic Acids Research</i> , 2020 , 48, 13000-13012	20.1	10
171	Consolidated bioprocessing of corn cob-derived hemicellulose: engineered industrial as efficient whole cell biocatalysts. <i>Biotechnology for Biofuels</i> , 2020 , 13, 138	7.8	26
170	A possible beneficial effect of <i>Bacteroides</i> on faecal lipopolysaccharide activity and cardiovascular diseases. <i>Scientific Reports</i> , 2020 , 10, 13009	4.9	16
169	Glycosidic Linkage Structures Influence Dietary Fiber Fermentability and Propionate Production by Human Colonic Microbiota In Vitro. <i>Biotechnology Journal</i> , 2020 , 15, e1900523	5.6	2
168	Prebiotic effects of yeast mannan, which selectively promotes <i>Bacteroides thetaiotaomicron</i> and <i>Bacteroides ovatus</i> in a human colonic microbiota model. <i>Scientific Reports</i> , 2020 , 10, 17351	4.9	15
167	Dynamic Metabolomics for Engineering Biology: Accelerating Learning Cycles for Bioproduction. <i>Trends in Biotechnology</i> , 2020 , 38, 68-82	15.1	12
166	Concentration of Lipase from <i>Aspergillus oryzae</i> Expressing <i>Fusarium heterosporum</i> by Nanofiltration to Enhance Transesterification. <i>Processes</i> , 2020 , 8, 450	2.9	2
165	High cell density cultivation of <i>Lipomyces starkeyi</i> for achieving highly efficient lipid production from sugar under low C/N ratio. <i>Biochemical Engineering Journal</i> , 2019 , 149, 107236	4.2	11
164	Metabolic engineering to improve 1,5-diaminopentane production from cellobiose using α -glucosidase-secreting <i>Corynebacterium glutamicum</i> . <i>Biotechnology and Bioengineering</i> , 2019 , 116, 2640-2651	4.9	23
163	Versatility of a Dilute Acid/Butanol Pretreatment Investigated on Various Lignocellulosic Biomasses to Produce Lignin, Monosaccharides and Cellulose in Distinct Phases. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11069-11079	8.3	28
162	Building a global alliance of biofoundries. <i>Nature Communications</i> , 2019 , 10, 2040	17.4	91
161	Mechanism-based tuning of insect 3,4-dihydroxyphenylacetaldehyde synthase for synthetic bioproduction of benzylisoquinoline alkaloids. <i>Nature Communications</i> , 2019 , 10, 2015	17.4	17
160	Less biomass and intracellular glutamate in anodic biofilms lead to efficient electricity generation by microbial fuel cells. <i>Biotechnology for Biofuels</i> , 2019 , 12, 72	7.8	10

159	Cell-surface display technology and metabolic engineering of <i>Saccharomyces cerevisiae</i> for enhancing xylitol production from woody biomass. <i>Green Chemistry</i> , 2019 , 21, 1795-1808	10	22
158	Light/dark cycling causes delayed lipid accumulation and increased photoperiod-based biomass yield by altering metabolic flux in oleaginous sp. <i>Biotechnology for Biofuels</i> , 2019 , 12, 39	7.8	15
157	Increased flux in acetyl-CoA synthetic pathway and TCA cycle of <i>Kluyveromyces marxianus</i> under respiratory conditions. <i>Scientific Reports</i> , 2019 , 9, 5319	4.9	22
156	Construction of a Model Culture System of Human Colonic Microbiota to Detect Decreased Lachnospiraceae Abundance and Butyrogenesis in the Feces of Ulcerative Colitis Patients. <i>Biotechnology Journal</i> , 2019 , 14, e1800555	5.6	22
155	Valorization of Activated Carbon as a Reusable Matrix for the Immobilization of <i>Aspergillus oryzae</i> Whole-Cells Expressing <i>Fusarium heterosporum</i> Lipase toward Biodiesel Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5010-5017	8.3	9
154	Production of 1,2,4-butanetriol from xylose by <i>Saccharomyces cerevisiae</i> through Fe metabolic engineering. <i>Metabolic Engineering</i> , 2019 , 56, 17-27	9.7	15
153	A novel process for the mixotrophic production of lutein with <i>Chlorella sorokiniana</i> MB-1-M12 using aquaculture wastewater. <i>Bioresource Technology</i> , 2019 , 290, 121786	11	16
152	Butyryl-CoA:acetate CoA-transferase gene associated with the genus is decreased in the gut microbiota of Japanese patients with ulcerative colitis. <i>Bioscience of Microbiota, Food and Health</i> , 2019 , 38, 159-163	3.2	4
151	Single-Stage Astaxanthin Production Enhances the Nonmevalonate Pathway and Photosynthetic Central Metabolism in sp. PCC 7002. <i>ACS Synthetic Biology</i> , 2019 , 8, 2701-2709	5.7	16
150	Bifidogenic and butyrogenic effects of young barely leaf extract in an in vitro human colonic microbiota model. <i>AMB Express</i> , 2019 , 9, 182	4.1	3
149	Effect of Resistant Starch on the Gut Microbiota and Its Metabolites in Patients with Coronary Artery Disease. <i>Journal of Atherosclerosis and Thrombosis</i> , 2019 , 26, 705-719	4	13
148	Heterologous production of free dihomog- γ -linolenic acid by <i>Aspergillus oryzae</i> and its extracellular release via surfactant supplementation. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 451-457	3.3	5
147	5-Hydroxymethylfurfural production from salt-induced photoautotrophically cultivated <i>Chlorella sorokiniana</i> . <i>Biochemical Engineering Journal</i> , 2019 , 142, 117-123	4.2	14
146	Modified expression of multi-cellulases in a filamentous fungus <i>Aspergillus oryzae</i> . <i>Bioresource Technology</i> , 2019 , 276, 146-153	11	18
145	Targeted Base Editing with CRISPR-Deaminase in Tomato. <i>Methods in Molecular Biology</i> , 2019 , 1917, 297-307	1.4	9
144	Lipid production by <i>Lipomyces starkeyi</i> using sap squeezed from felled old oil palm trunks. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 726-731	3.3	10
143	Enhancing lutein production with mixotrophic cultivation of <i>Chlorella sorokiniana</i> MB-1-M12 using different bioprocess operation strategies. <i>Bioresource Technology</i> , 2019 , 278, 17-25	11	32
142	In vivo tissue distribution and safety of polyacrylic acid-modified titanium peroxide nanoparticles as novel radiosensitizers. <i>Journal of Bioscience and Bioengineering</i> , 2018 , 126, 119-125	3.3	9

141	Deaminase-mediated multiplex genome editing in <i>Escherichia coli</i> . <i>Nature Microbiology</i> , 2018 , 3, 423-429	26.6	102
140	Effect of inoculum size on single-cell oil production from glucose and xylose using oleaginous yeast <i>Lipomyces starkeyi</i> . <i>Journal of Bioscience and Bioengineering</i> , 2018 , 125, 695-702	3.3	48
139	Low amounts of dietary fibre increase in vitro production of short-chain fatty acids without changing human colonic microbiota structure. <i>Scientific Reports</i> , 2018 , 8, 435	4.9	52
138	Inheritance of co-edited genes by CRISPR-based targeted nucleotide substitutions in rice. <i>Plant Physiology and Biochemistry</i> , 2018 , 131, 78-83	5.4	22
137	Engineering Human Epidermal Growth Receptor 2-Targeting Hepatitis B Virus Core Nanoparticles for siRNA Delivery and. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3269-3282	5.6	6
136	Deletion of DNA ligase IV homolog confers higher gene targeting efficiency on homologous recombination in <i>Komagataella phaffii</i> . <i>FEMS Yeast Research</i> , 2018 , 18,	3.1	4
135	Metabolome analysis-based design and engineering of a metabolic pathway in <i>Corynebacterium glutamicum</i> to match rates of simultaneous utilization of D-glucose and L-arabinose. <i>Microbial Cell Factories</i> , 2018 , 17, 76	6.4	15
134	Genetic and physiological basis for antibody production by <i>Kluyveromyces marxianus</i> . <i>AMB Express</i> , 2018 , 8, 56	4.1	7
133	Targeted Nucleotide Editing Technologies for Microbial Metabolic Engineering. <i>Biotechnology Journal</i> , 2018 , 13, e1700596	5.6	27
132	How lipase technology contributes to evolution of biodiesel production using multiple feedstocks. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 57-64	11.4	87
131	Modifying Expression Modes of Human Neurotensin Receptor Type 1 Alters Sensing Capabilities for Agonists in Yeast Signaling Biosensor. <i>Biotechnology Journal</i> , 2018 , 13, e1700522	5.6	7
130	Herbicide tolerance-assisted multiplex targeted nucleotide substitution in rice. <i>Data in Brief</i> , 2018 , 20, 1325-1331	1.2	9
129	Muconic Acid Production Using Gene-Level Fusion Proteins in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2018 , 7, 2698-2705	5.7	13
128	Improved permselectivity of forward osmosis membranes for efficient concentration of pretreated rice straw and bioethanol production. <i>Journal of Membrane Science</i> , 2018 , 566, 15-24	9.6	19
127	Temperature enhanced succinate production concurrent with increased central metabolism turnover in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , 2018 , 48, 109-120	9.7	38
126	A Stable, Autonomously Replicating Plasmid Vector Containing <i>Pichia pastoris</i> Centromeric DNA. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	23
125	Selection of oleaginous yeasts capable of high lipid accumulation during challenges from inhibitory chemical compounds. <i>Biochemical Engineering Journal</i> , 2018 , 137, 182-191	4.2	16
124	Improvement of ethanol production from crystalline cellulose via optimizing cellulase ratios in cellulolytic <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1201-1207	4.9	32

123	Split luciferase complementation assay for the analysis of G protein-coupled receptor ligand response in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1354-1361	4.9	3
122	A Systematic Approach to Time-series Metabolite Profiling and RNA-seq Analysis of Chinese Hamster Ovary Cell Culture. <i>Scientific Reports</i> , 2017 , 7, 43518	4.9	18
121	Dynamic metabolic profiling together with transcription analysis reveals salinity-induced starch-to-lipid biosynthesis in alga <i>Chlamydomonas</i> sp. JSC4. <i>Scientific Reports</i> , 2017 , 7, 45471	4.9	90
120	Development of combined nanofiltration and forward osmosis process for production of ethanol from pretreated rice straw. <i>Bioresource Technology</i> , 2017 , 235, 405-410	11	15
119	Future insights in fungal metabolic engineering. <i>Bioresource Technology</i> , 2017 , 245, 1314-1326	11	43
118	Affibody-displaying bio-nanocapsules effective in EGFR, typical biomarker, expressed in various cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 336-341	2.9	5
117	Sucrose purification and repeated ethanol production from sugars remaining in sweet sorghum juice subjected to a membrane separation process. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 6007-6014	5.7	8
116	Recent Advances in Microbial Production of Aromatic Chemicals and Derivatives. <i>Trends in Biotechnology</i> , 2017 , 35, 785-796	15.1	66
115	1,5-Diaminopentane production from xylooligosaccharides using metabolically engineered <i>Corynebacterium glutamicum</i> displaying beta-xylosidase on the cell surface. <i>Bioresource Technology</i> , 2017 , 245, 1684-1691	11	32
114	Evolutionary engineering of salt-resistant <i>Chlamydomonas</i> sp. strains reveals salinity stress-activated starch-to-lipid biosynthesis switching. <i>Bioresource Technology</i> , 2017 , 245, 1484-1490	11	37
113	Targeted base editing in rice and tomato using a CRISPR-Cas9 cytidine deaminase fusion. <i>Nature Biotechnology</i> , 2017 , 35, 441-443	44.5	453
112	Positive Feedback Genetic Circuit Incorporating a Constitutively Active Mutant Gal3 into Yeast GAL Induction System. <i>ACS Synthetic Biology</i> , 2017 , 6, 928-935	5.7	9
111	Engineering hepatitis B virus core particles for targeting HER2 receptors in vitro and in vivo. <i>Biomaterials</i> , 2017 , 120, 126-138	15.6	17
110	Taurine does not affect the composition, diversity, or metabolism of human colonic microbiota simulated in a single-batch fermentation system. <i>PLoS ONE</i> , 2017 , 12, e0180991	3.7	9
109	Development of a comprehensive set of tools for genome engineering in a cold- and thermo-tolerant <i>Kluyveromyces marxianus</i> yeast strain. <i>Scientific Reports</i> , 2017 , 7, 8993	4.9	38
108	Beyond Native Cas9: Manipulating Genomic Information and Function. <i>Trends in Biotechnology</i> , 2017 , 35, 983-996	15.1	54
107	Challenges of non-flocculating <i>Saccharomyces cerevisiae</i> haploid strain against inhibitory chemical complex for ethanol production. <i>Bioresource Technology</i> , 2017 , 245, 1436-1446	11	10
106	Simultaneous conversion of free fatty acids and triglycerides to biodiesel by immobilized <i>Aspergillus oryzae</i> expressing <i>Fusarium heterosporum</i> lipase. <i>Biotechnology Journal</i> , 2017 , 12, 1600400	5.6	13

105	Converting oils high in phospholipids to biodiesel using immobilized <i>Aspergillus oryzae</i> whole-cell biocatalysts expressing <i>Fusarium heterosporum</i> lipase. <i>Biochemical Engineering Journal</i> , 2016 , 105, 10-15	4.2	45
104	Characterization of titanium dioxide nanoparticles modified with polyacrylic acid and HO for use as a novel radiosensitizer. <i>Free Radical Research</i> , 2016 , 50, 1319-1328	4	18
103	Improved sugar-free succinate production by sp. PCC 6803 following identification of the limiting steps in glycogen catabolism. <i>Metabolic Engineering Communications</i> , 2016 , 3, 130-141	6.5	37
102	Organosolv pretreatment of sorghum bagasse using a low concentration of hydrophobic solvents such as 1-butanol or 1-pentanol. <i>Biotechnology for Biofuels</i> , 2016 , 9, 27	7.8	45
101	Disruption of PHO13 improves ethanol production via the xylose isomerase pathway. <i>AMB Express</i> , 2016 , 6, 4	4.1	27
100	Metabolic design of a platform <i>Escherichia coli</i> strain producing various chorismate derivatives. <i>Metabolic Engineering</i> , 2016 , 33, 119-129	9.7	76
99	2,3-Butanediol production from cellobiose using exogenous beta-glucosidase-expressing <i>Bacillus subtilis</i> . <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 5781-9	5.7	8
98	A Single-Batch Fermentation System to Simulate Human Colonic Microbiota for High-Throughput Evaluation of Prebiotics. <i>PLoS ONE</i> , 2016 , 11, e0160533	3.7	58
97	Anionic metabolite biosynthesis enhanced by potassium under dark, anaerobic conditions in cyanobacteria. <i>Scientific Reports</i> , 2016 , 6, 32354	4.9	17
96	Expression of varied GFPs in <i>Saccharomyces cerevisiae</i> : codon optimization yields stronger than expected expression and fluorescence intensity. <i>Scientific Reports</i> , 2016 , 6, 35932	4.9	42
95	Lipase cocktail for efficient conversion of oils containing phospholipids to biodiesel. <i>Bioresource Technology</i> , 2016 , 211, 224-30	11	41
94	Recent advances in yeast cell-surface display technologies for waste biorefineries. <i>Bioresource Technology</i> , 2016 , 215, 324-333	11	51
93	Engineering cell factories for producing building block chemicals for bio-polymer synthesis. <i>Microbial Cell Factories</i> , 2016 , 15, 19	6.4	58
92	Titanium peroxide nanoparticles enhanced cytotoxic effects of X-ray irradiation against pancreatic cancer model through reactive oxygen species generation in vitro and in vivo. <i>Radiation Oncology</i> , 2016 , 11, 91	4.2	55
91	Comprehension of an organosolv process for lignin extraction on <i>Festuca arundinacea</i> and monitoring of the cellulose degradation. <i>Industrial Crops and Products</i> , 2016 , 94, 308-317	5.9	16
90	Sortase A-Mediated Metabolic Enzyme Ligation in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2016 , 5, 1284-1289	3.7	8
89	Targeted nucleotide editing using hybrid prokaryotic and vertebrate adaptive immune systems. <i>Science</i> , 2016 , 353,	33.3	694
88	Mechanical milling and membrane separation for increased ethanol production during simultaneous saccharification and co-fermentation of rice straw by xylose-fermenting <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2015 , 185, 263-8	11	26

87	Improvement of oxidized glutathione fermentation by thiol redox metabolism engineering in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 9771-8	5.7	11
86	Rational design and evolutionary fine tuning of <i>Saccharomyces cerevisiae</i> for biomass breakdown. <i>Current Opinion in Chemical Biology</i> , 2015 , 29, 1-9	9.7	32
85	Effective saccharification of kraft pulp by using a cellulase cocktail prepared from genetically engineered <i>Aspergillus oryzae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2015 , 79, 1034-7	2.1	9
84	Repeated ethanol production from sweet sorghum juice concentrated by membrane separation. <i>Bioresource Technology</i> , 2015 , 186, 351-355	11	17
83	Unique plasmids generated via pUC replicon mutagenesis in an error-prone thermophile derived from <i>Geobacillus kaustophilus</i> HTA426. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 7625-32	4.8	9
82	Complete Genome Sequence of <i>Kluyveromyces marxianus</i> NBRC1777, a Nonconventional Thermotolerant Yeast. <i>Genome Announcements</i> , 2015 , 3,		36
81	Combined cell-surface display- and secretion-based strategies for production of cellulosic ethanol with <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2015 , 8, 162	7.8	43
80	Recent advances in the metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of lactate and succinate from renewable resources. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015 , 42, 375-89	4.2	27
79	Improving the odorant sensitivity of olfactory receptor-expressing yeast with accessory proteins. <i>Analytical Biochemistry</i> , 2015 , 471, 1-8	3.1	21
78	M-path: a compass for navigating potential metabolic pathways. <i>Bioinformatics</i> , 2015 , 31, 905-11	7.2	25
77	Multi-functional glycoside hydrolase: Blon_0625 from <i>Bifidobacterium longum</i> subsp. <i>infantis</i> ATCC 15697. <i>Enzyme and Microbial Technology</i> , 2015 , 68, 10-4	3.8	7
76	Applications of yeast-based signaling sensor for characterization of antagonist and analysis of site-directed mutants of the human serotonin 1A receptor. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1906-15	4.9	20
75	Improving polyglucan production in cyanobacteria and microalgae via cultivation design and metabolic engineering. <i>Biotechnology Journal</i> , 2015 , 10, 886-98	5.6	28
74	Changes in primary metabolism under light and dark conditions in response to overproduction of a response regulator RpaA in the unicellular cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Frontiers in Microbiology</i> , 2015 , 6, 888	5.7	19
73	Genetic manipulation of a metabolic enzyme and a transcriptional regulator increasing succinate excretion from unicellular cyanobacterium. <i>Frontiers in Microbiology</i> , 2015 , 6, 1064	5.7	51
72	Alteration of cyanobacterial sugar and amino acid metabolism by overexpression hik8, encoding a KaiC-associated histidine kinase. <i>Environmental Microbiology</i> , 2015 , 17, 2430-40	5.2	22
71	Changes in Lignin and Polysaccharide Components in 13 Cultivars of Rice Straw following Dilute Acid Pretreatment as Studied by Solution-State 2D 1H-13C NMR. <i>PLoS ONE</i> , 2015 , 10, e0128417	3.7	21
70	Efficient yeast cell-surface display of exo- and endo-cellulase using the SED1 anchoring region and its original promoter. <i>Biotechnology for Biofuels</i> , 2014 , 7, 8	7.8	73

69	Simultaneous saccharification and fermentation of kraft pulp by recombinant <i>Escherichia coli</i> for phenyllactic acid production. <i>Biochemical Engineering Journal</i> , 2014 , 88, 188-194	4.2	36
68	Microbial fluorescence sensing for human neurotensin receptor type 1 using G β engineered yeast cells. <i>Analytical Biochemistry</i> , 2014 , 446, 37-43	3.1	14
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