

Akihiko Kondo

List of Publications by Citations

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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	Targeted nucleotide editing using hybrid prokaryotic and vertebrate adaptive immune systems. <i>Science</i> , 2016 , 353,	33.3	694
211	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
210	Nanoparticles for the delivery of genes and drugs to human hepatocytes. <i>Nature Biotechnology</i> , 2003 , 21, 885-90	44.5	218
209	Metabolic pathway engineering based on metabolomics confers acetic and formic acid tolerance to a recombinant xylose-fermenting strain of <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2011 , 10, 2	6.4	186
208	Enzymatic biodiesel production: an overview of potential feedstocks and process development. <i>Bioresource Technology</i> , 2013 , 135, 386-95	11	157
207	Genetic engineering to enhance the Ehrlich pathway and alter carbon flux for increased isobutanol production from glucose by <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2012 , 159, 32-7	3.7	131
206	Consolidated bioprocessing and simultaneous saccharification and fermentation of lignocellulose to ethanol with thermotolerant yeast strains. <i>Process Biochemistry</i> , 2012 , 47, 1287-1294	4.8	131
205	Cocktail delta-integration: a novel method to construct cellulolytic enzyme expression ratio-optimized yeast strains. <i>Microbial Cell Factories</i> , 2010 , 9, 32	6.4	121
204	Direct ethanol production from cellulosic materials at high temperature using the thermotolerant yeast <i>Kluyveromyces marxianus</i> displaying cellulolytic enzymes. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 381-8	5.7	115
203	Direct production of cadaverine from soluble starch using <i>Corynebacterium glutamicum</i> coexpressing alpha-amylase and lysine decarboxylase. <i>Applied Microbiology and Biotechnology</i> , 2009 , 82, 115-21	5.7	114
202	Facilitatory effect of immobilized lipase-producing <i>Rhizopus oryzae</i> cells on acyl migration in biodiesel-fuel production. <i>Biochemical Engineering Journal</i> , 2005 , 23, 45-51	4.2	114
201	Lipase localization in <i>Rhizopus oryzae</i> cells immobilized within biomass support particles for use as whole-cell biocatalysts in biodiesel-fuel production. <i>Journal of Bioscience and Bioengineering</i> , 2006 , 101, 328-33	3.3	108
200	Dynamic metabolic profiling of cyanobacterial glycogen biosynthesis under conditions of nitrate depletion. <i>Journal of Experimental Botany</i> , 2013 , 64, 2943-54	7	105
199	Deaminase-mediated multiplex genome editing in <i>Escherichia coli</i> . <i>Nature Microbiology</i> , 2018 , 3, 423-429	26.6	102
198	PCR-mediated seamless gene deletion and marker recycling in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2006 , 23, 399-405	3.4	101
197	Direct ethanol production from hemicellulosic materials of rice straw by use of an engineered yeast strain codisplaying three types of hemicellulolytic enzymes on the surface of xylose-utilizing <i>Saccharomyces cerevisiae</i> cells. <i>Journal of Biotechnology</i> , 2012 , 158, 203-10	3.7	98
196	Metabolic turnover analysis by a combination of in vivo ¹³ C-labelling from ¹³ CO ₂ and metabolic profiling with CE-MS/MS reveals rate-limiting steps of the C ₃ photosynthetic pathway in <i>Nicotiana tabacum</i> leaves. <i>Journal of Experimental Botany</i> , 2010 , 61, 1041-51	7	97

195	Engineering strategies for improving the CO ₂ fixation and carbohydrate productivity of <i>Scenedesmus obliquus</i> CNW-N used for bioethanol fermentation. <i>Bioresource Technology</i> , 2013 , 143, 163-71	11	92
194	Building a global alliance of biofoundries. <i>Nature Communications</i> , 2019 , 10, 2040	17.4	91
193	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
192	Optimizing biodiesel production in marine <i>Chlamydomonas</i> sp. JSC4 through metabolic profiling and an innovative salinity-gradient strategy. <i>Biotechnology for Biofuels</i> , 2014 , 7, 97	7.8	89
191	Display of cellulases on the cell surface of <i>Saccharomyces cerevisiae</i> for high yield ethanol production from high-solid lignocellulosic biomass. <i>Bioresource Technology</i> , 2012 , 108, 128-33	11	88
190	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
189	Direct conversion of <i>Spirulina</i> to ethanol without pretreatment or enzymatic hydrolysis processes. <i>Energy and Environmental Science</i> , 2013 , 6, 1844	35.4	85
188	Effect of fatty acid membrane composition on whole-cell biocatalysts for biodiesel-fuel production. <i>Biochemical Engineering Journal</i> , 2004 , 21, 155-160	4.2	84
187	Widely targeted metabolic profiling analysis of yeast central metabolites. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 665-73	3.3	81
186	A simple and immediate method for simultaneously evaluating expression level and plasmid maintenance in yeast. <i>Journal of Biochemistry</i> , 2009 , 145, 701-8	3.1	81
185	Endowing non-cellulolytic microorganisms with cellulolytic activity aiming for consolidated bioprocessing. <i>Biotechnology Advances</i> , 2013 , 31, 754-63	17.8	80
184	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
183	Direct production of L-lysine from raw corn starch by <i>Corynebacterium glutamicum</i> secreting <i>Streptococcus bovis</i> alpha-amylase using <i>cspB</i> promoter and signal sequence. <i>Applied Microbiology and Biotechnology</i> , 2007 , 77, 533-41	5.7	76
182	Novel strategy for yeast construction using delta-integration and cell fusion to efficiently produce ethanol from raw starch. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1491-8	5.7	75
181	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
180	Development of lipid productivities under different CO ₂ conditions of marine microalgae <i>Chlamydomonas</i> sp. JSC4. <i>Bioresource Technology</i> , 2014 , 152, 247-52	11	69
179	Recent Advances in Microbial Production of Aromatic Chemicals and Derivatives. <i>Trends in Biotechnology</i> , 2017 , 35, 785-796	15.1	66
178	Adaptation of light-harvesting systems of <i>Arthrospira platensis</i> to light conditions, probed by time-resolved fluorescence spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 1483-9	4.6	64

177	Capillary electrophoresis-mass spectrometry reveals the distribution of carbon metabolites during nitrogen starvation in <i>Synechocystis</i> sp. PCC 6803. <i>Environmental Microbiology</i> , 2014 , 16, 512-24	5.2	63
176	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
175	Glycogen production for biofuels by the euryhaline cyanobacteria <i>Synechococcus</i> sp. strain PCC 7002 from an oceanic environment. <i>Biotechnology for Biofuels</i> , 2014 , 7, 88	7.8	60
174	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
173	Engineering cell factories for producing building block chemicals for bio-polymer synthesis. <i>Microbial Cell Factories</i> , 2016 , 15, 19	6.4	58
172	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
171	Beyond Native Cas9: Manipulating Genomic Information and Function. <i>Trends in Biotechnology</i> , 2017 , 35, 983-996	15.1	54
170	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
169	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
168	Recent advances in yeast cell-surface display technologies for waste biorefineries. <i>Bioresource Technology</i> , 2016 , 215, 324-333	11	51
167	Direct isopropanol production from cellobiose by engineered <i>Escherichia coli</i> using a synthetic pathway and a cell surface display system. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 114, 80-5	3.3	49
166	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
165	Direct L-lysine production from cellobiose by <i>Corynebacterium glutamicum</i> displaying beta-glucosidase on its cell surface. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 7165-72	5.7	47
164	Preparation and comparative characterization of immobilized <i>Aspergillus oryzae</i> expressing <i>Fusarium heterosporum</i> lipase for enzymatic biodiesel production. <i>Applied Microbiology and Biotechnology</i> , 2008 , 81, 637-45	5.7	47
163	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
162	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
161	Development of an <i>Aspergillus oryzae</i> whole-cell biocatalyst coexpressing triglyceride and partial glyceride lipases for biodiesel production. <i>Bioresource Technology</i> , 2011 , 102, 6723-9	11	45
160	Future insights in fungal metabolic engineering. <i>Bioresource Technology</i> , 2017 , 245, 1314-1326	11	43

159	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
158	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
157	Lipase cocktail for efficient conversion of oils containing phospholipids to biodiesel. <i>Bioresource Technology</i> , 2016 , 211, 224-30	11	41
156	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
155	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
154	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
153	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
152	Complete Genome Sequence of <i>Kluyveromyces marxianus</i> NBRC1777, a Nonconventional Thermotolerant Yeast. <i>Genome Announcements</i> , 2015 , 3,		36
151	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
150	<i>Aspergillus oryzae</i> -based cell factory for direct kojic acid production from cellulose. <i>Microbial Cell Factories</i> , 2014 , 13, 71	6.4	36
149	Specific protein delivery to target cells by antibody-displaying bionanocapsules. <i>Journal of Biochemistry</i> , 2008 , 144, 701-7	3.1	34
148	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
147	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
146	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
145	Overexpression of <i>flv3</i> improves photosynthesis in the cyanobacterium <i>Synechocystis</i> sp. PCC6803 by enhancement of alternative electron flow. <i>Biotechnology for Biofuels</i> , 2014 , 7, 493	7.8	32
144	Creation of a cellooligosaccharide-assimilating <i>Escherichia coli</i> strain by displaying active beta-glucosidase on the cell surface via a novel anchor protein. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 6265-70	4.8	32
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	A display of pH-sensitive fusogenic GALA peptide facilitates endosomal escape from a Bio-nanocapsule via an endocytic uptake pathway. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 11	9.4	31

141	Metabolic engineering of <i>Escherichia coli</i> for shikimate pathway derivative production from glucose-xylose co-substrate. <i>Nature Communications</i> , 2020 , 11, 279	17.4	30
140	Over-production of various secretory-form proteins in <i>Streptomyces lividans</i> . <i>Protein Expression and Purification</i> , 2010 , 73, 198-202	2	30
139	Immobilized lipases for biodiesel production: Current and future greening opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110355	16.2	30
138	L-lactic acid production from starch by simultaneous saccharification and fermentation in a genetically engineered <i>Aspergillus oryzae</i> pure culture. <i>Bioresource Technology</i> , 2014 , 173, 376-383	11	29
137	Efficient direct ethanol production from cellulose by cellulase- and cellodextrin transporter-co-expressing <i>Saccharomyces cerevisiae</i> . <i>AMB Express</i> , 2013 , 3, 34	4.1	29
136	Gene expression cross-profiling in genetically modified industrial <i>Saccharomyces cerevisiae</i> strains during high-temperature ethanol production from xylose. <i>Journal of Biotechnology</i> , 2013 , 163, 50-60	3.7	29
135	Yeast-based fluorescence reporter assay of G protein-coupled receptor signalling for flow cytometric screening: FAR1-disruption recovers loss of episomal plasmid caused by signalling in yeast. <i>Journal of Biochemistry</i> , 2008 , 143, 667-74	3.1	29
134	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
133	Improving polyglucan production in cyanobacteria and microalgae via cultivation design and metabolic engineering. <i>Biotechnology Journal</i> , 2015 , 10, 886-98	5.6	28
132	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
131	Disruption of PHO13 improves ethanol production via the xylose isomerase pathway. <i>AMB Express</i> , 2016 , 6, 4	4.1	27
130	Targeted Nucleotide Editing Technologies for Microbial Metabolic Engineering. <i>Biotechnology Journal</i> , 2018 , 13, e1700596	5.6	27
129	The N-terminal replacement of an olfactory receptor for the development of a yeast-based biomimetic odor sensor. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 205-12	4.9	27
128	Direct cadaverine production from cellobiose using β -glucosidase displaying <i>Escherichia coli</i> . <i>AMB Express</i> , 2013 , 3, 67	4.1	27
127	Highly efficient biodiesel production by a whole-cell biocatalyst employing a system with high lipase expression in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1171-7	5.7	27
126	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
125	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
124	M-path: a compass for navigating potential metabolic pathways. <i>Bioinformatics</i> , 2015 , 31, 905-11	7.2	25

123	Isolation of a novel promoter for efficient protein expression by <i>Aspergillus oryzae</i> in solid-state culture. <i>Applied Microbiology and Biotechnology</i> , 2011 , 92, 561-9	5.7	25
122	Protein-protein interactions and selection: yeast-based approaches that exploit guanine nucleotide-binding protein signaling. <i>FEBS Journal</i> , 2010 , 277, 1982-95	5.7	25
121	Quantitative and dynamic analyses of G protein-coupled receptor signaling in yeast using Fus1, enhanced green fluorescence protein (EGFP), and His3 fusion protein. <i>Biotechnology Progress</i> , 2006 , 22, 954-60	2.8	25
120	Targeting cancer cell-specific RNA interference by siRNA delivery using a complex carrier of affibody-displaying bio-nanocapsules and liposomes. <i>Journal of Nanobiotechnology</i> , 2013 , 11, 19	9.4	24
119	A robust whole-cell biocatalyst that introduces a thermo- and solvent-tolerant lipase into <i>Aspergillus oryzae</i> cells: characterization and application to enzymatic biodiesel production. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 331-5	3.8	24
118	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
117	A Stable, Autonomously Replicating Plasmid Vector Containing <i>Pichia pastoris</i> Centromeric DNA. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	23
116	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
115	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
114	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
113	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
112	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
111	Importance of asparagine residues at positions 13 and 26 on the amino-terminal domain of human somatostatin receptor subtype-5 in signalling. <i>Journal of Biochemistry</i> , 2010 , 147, 867-73	3.1	22
110	Improving the odorant sensitivity of olfactory receptor-expressing yeast with accessory proteins. <i>Analytical Biochemistry</i> , 2015 , 471, 1-8	3.1	21
109	Cell wall trapping of autocrine peptides for human G-protein-coupled receptors on the yeast cell surface. <i>PLoS ONE</i> , 2012 , 7, e37136	3.7	21
108	Amplification of agonist stimulation of human G-protein-coupled receptor signaling in yeast. <i>Analytical Biochemistry</i> , 2011 , 417, 182-7	3.1	21
107	Affibody-displaying bionanocapsules for specific drug delivery to HER2-expressing cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5726-31	2.9	21
106	Changes in Lignin and Polysaccharide Components in 13 Cultivars of Rice Straw following Dilute Acid Pretreatment as Studied by Solution-State 2D ^1H - ^{13}C NMR. <i>PLoS ONE</i> , 2015 , 10, e0128417	3.7	21

105	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
104	Efficient heterologous expression and secretion in <i>Aspergillus oryzae</i> of a llama variable heavy-chain antibody fragment V(HH) against EGFR. <i>Applied Microbiology and Biotechnology</i> , 2012 , 96, 81-8	5.7	20
103	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
102	Bright fluorescence monitoring system utilizing <i>Zoanthus</i> sp. green fluorescent protein (ZsGreen) for human G-protein-coupled receptor signaling in microbial yeast cells. <i>PLoS ONE</i> , 2013 , 8, e82237	3.7	19
101	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
100	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
99	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
98	Ethanol fermentation by xylose-assimilating <i>Saccharomyces cerevisiae</i> using sugars in a rice straw liquid hydrolysate concentrated by nanofiltration. <i>Bioresource Technology</i> , 2013 , 147, 84-88	11	18
97	Modified expression of multi-cellulases in a filamentous fungus <i>Aspergillus oryzae</i> . <i>Bioresource Technology</i> , 2019 , 276, 146-153	11	18
96	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
95	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
94	Repeated ethanol production from sweet sorghum juice concentrated by membrane separation. <i>Bioresource Technology</i> , 2015 , 186, 351-355	11	17
93	Variation in biomass properties among rice diverse cultivars. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011 , 75, 1603-5	2.1	17
92	Anionic metabolite biosynthesis enhanced by potassium under dark, anaerobic conditions in cyanobacteria. <i>Scientific Reports</i> , 2016 , 6, 32354	4.9	17
91	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
90	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
89	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
88	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

87	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
86	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
85	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
84	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
83	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
82	Optimized membrane process to increase hemicellulosic ethanol production from pretreated rice straw by recombinant xylose-fermenting <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2014 , 169, 380-386	11	15
81	An improved bioluminescence-based signaling assay for odor sensing with a yeast expressing a chimeric olfactory receptor. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 3143-51	4.9	15
80	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
79	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
78	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
77	Microbial fluorescence sensing for human neurotensin receptor type 1 using Engineered yeast cells. <i>Analytical Biochemistry</i> , 2014 , 446, 37-43	3.1	14
76	5-Hydroxymethylfurfural production from salt-induced photoautotrophically cultivated <i>Chlorella sorokiniana</i> . <i>Biochemical Engineering Journal</i> , 2019 , 142, 117-123	4.2	14
75	Lutein production with <i>Chlorella sorokiniana</i> MB-1-M12 using novel two-stage cultivation strategies - metabolic analysis and process improvement. <i>Bioresource Technology</i> , 2021 , 334, 125200	11	14
74	Creation of cellobiose and xylooligosaccharides-couitilizing <i>Escherichia coli</i> displaying both β -glucosidase and β -xylosidase on its cell surface. <i>ACS Synthetic Biology</i> , 2014 , 3, 446-53	5.7	13
73	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
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