Akihiko Kondo

List of Publications by Citations

192 papers	12,365 citations	61 h-index	106 g-index
195 ext. papers	13,256 ext. citations	5.9 avg, IF	6.34 L-index

#	Paper	IF	Citations
192	Biodiesel fuel production by transesterification of oils. *Journal of Bioscience and Bioengineering*, **2001**, 92, 405-416	3.3	1476
191	Targeted base editing in rice and tomato using a CRISPR-Cas9 cytidine deaminase fusion. *Nature Biotechnology*, **2017**, 35, 441-443	44.5	453
190	Biodiesel fuel production by transesterification of oils. *Journal of Bioscience and Bioengineering*, **2001**, 92, 405-16	3.3	395
189	Synergistic saccharification, and direct fermentation to ethanol, of amorphous cellulose by use of an engineered yeast strain codisplaying three types of cellulolytic enzyme. *Applied and Environmental Microbiology*, **2004**, 70, 1207-12	4.8	271
188	Biodiesel fuel production from plant oil catalyzed by Rhizopus oryzae lipase in a water-containing system without an organic solvent. *Journal of Bioscience and Bioengineering*, **1999**, 88, 627-31	3.3	265
187	A review of enzymes and microbes for lignocellulosic biorefinery and the possibility of their application to consolidated bioprocessing technology. *Bioresource Technology*, **2013**, 135, 513-22	11	240
186	Nanoparticles for the delivery of genes and drugs to human hepatocytes. *Nature Biotechnology*, **2003**, 21, 885-90	44.5	218
185	Biotechnological production of enantiomeric pure lactic acid from renewable resources: recent achievements, perspectives, and limits. *Applied Microbiology and Biotechnology*, **2010**, 85, 413-23	5.7	208
184	Whole cell biocatalyst for biodiesel fuel production utilizing Rhizopus oryzae cells immobilized within biomass support particles. *Biochemical Engineering Journal*, **2001**, 8, 39-43	4.2	200
183	Structural changes in protein molecules adsorbed on ultrafine silica particles. *Journal of Colloid and Interface Science*, **1991**, 143, 214-221	9.3	196
182	Pretreatment of immobilized Candida antarctica lipase for biodiesel fuel production from plant oil. *Journal of Bioscience and Bioengineering*, **2000**, 90, 180-183	3.3	193
181	Direct and efficient production of ethanol from cellulosic material with a yeast strain displaying cellulolytic enzymes. *Applied and Environmental Microbiology*, **2002**, 68, 5136-41	4.8	192
180	Enzymatic production of biodiesel from Jatropha oil: A comparative study of immobilized-whole cell and commercial lipases as a biocatalyst. *Biochemical Engineering Journal*, **2008**, 39, 185-189	4.2	190
179	Ethanol fermentation from lignocellulosic hydrolysate by a recombinant xylose- and cellooligosaccharide-assimilating yeast strain. *Applied Microbiology and Biotechnology*, **2006**, 72, 1136-43	5.7	182
178	Development of yeast cell factories for consolidated bioprocessing of lignocellulose to bioethanol through cell surface engineering. *Biotechnology Advances*, **2012**, 30, 1207-18	17.8	181
177	Direct production of ethanol from raw corn starch via fermentation by use of a novel surface-engineered yeast strain codisplaying glucoamylase and alpha-amylase. *Applied and Environmental Microbiology*, **2004**, 70, 5037-40	4.8	172
176	Enzymatic biodiesel production: an overview of potential feedstocks and process development. *Bioresource Technology*, **2013**, 135, 386-95	11	157

175	Construction of yeast strains with high cell surface lipase activity by using novel display systems based on the Flo1p flocculation functional domain. *Applied and Environmental Microbiology*, **2002**, 68, 4517-22	4.8	148
174	Development and application of thermo-sensitive magnetic immunomicrospheres for antibody purification. *Applied Microbiology and Biotechnology*, **1994**, 41, 99-105	5.7	147
173	Xylose isomerase from polycentric fungus Orpinomyces: gene sequencing, cloning, and expression in Saccharomyces cerevisiae for bioconversion of xylose to ethanol. *Applied Microbiology and Biotechnology*, **2009**, 82, 1067-78	5.7	143
172	Biodiesel-fuel production in a packed-bed reactor using lipase-producing Rhizopus oryzae cells immobilized within biomass support particles. *Biochemical Engineering Journal*, **2007**, 34, 273-278	4.2	135
171	Consolidated bioprocessing and simultaneous saccharification and fermentation of lignocellulose to ethanol with thermotolerant yeast strains. *Process Biochemistry*, **2012**, 47, 1287-1294	4.8	131
170	Construction of a xylan-fermenting yeast strain through codisplay of xylanolytic enzymes on the surface of xylose-utilizing Saccharomyces cerevisiae cells. *Applied and Environmental Microbiology*, **2004**, 70, 5407-14	4.8	131
169	Repeated use of whole-cell biocatalysts immobilized within biomass support particles for biodiesel fuel production. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 17, 157-165		131
168	Cocktail delta-integration: a novel method to construct cellulolytic enzyme expression ratio-optimized yeast strains. *Microbial Cell Factories*, **2010**, 9, 32	6.4	121
167	Direct ethanol production from cellulosic materials at high temperature using the thermotolerant yeast Kluyveromyces marxianus displaying cellulolytic enzymes. *Applied Microbiology and Biotechnology*, **2010**, 88, 381-8	5.7	115
166	Facilitatory effect of immobilized lipase-producing Rhizopus oryzae cells on acyl migration in biodiesel-fuel production. *Biochemical Engineering Journal*, **2005**, 23, 45-51	4.2	114
165	Circular dichroism studies on conformational changes in protein molecules upon adsorption on ultrafine polystyrene particles. *Biotechnology and Bioengineering*, **1992**, 40, 889-94	4.9	110
164	Lipase localization in Rhizopus oryzae cells immobilized within biomass support particles for use as whole-cell biocatalysts in biodiesel-fuel production. *Journal of Bioscience and Bioengineering*, **2006**, 101, 328-33	3.3	108
163	Deaminase-mediated multiplex genome editing in Escherichia coli. *Nature Microbiology*, **2018**, 3, 423-429	26.6	102
162	Increased isobutanol production in Saccharomyces cerevisiae by eliminating competing pathways and resolving cofactor imbalance. *Microbial Cell Factories*, **2013**, 12, 119	6.4	102
161	Adsorption of model proteins with wide variation in molecular properties on colloidal particles. *Journal of Colloid and Interface Science*, **1992**, 150, 344-351	9.3	101
160	Display of alpha-amylase on the surface of Lactobacillus casei cells by use of the PgsA anchor protein, and production of lactic acid from starch. *Applied and Environmental Microbiology*, **2006**, 72, 269-75	4.8	99
159	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 Saccharomyces cerevisiae cells. *Journal of Biotechnology*, **2012**, 158, 203-10	3.7	98
158	Bioenergy: Sustainable fuels from biomass by yeast and fungal whole-cell biocatalysts. *Biochemical Engineering Journal*, **2009**, 44, 2-12	4.2	97

157	Direct ethanol production from cellulosic materials using a diploid strain of Saccharomyces cerevisiae with optimized cellulase expression. *Biotechnology for Biofuels*, **2011**, 4, 8	7.8	95
156	Improvement of ethanol productivity during xylose and glucose co-fermentation by xylose-assimilating S. cerevisiae via expression of glucose transporter Sut1. *Enzyme and Microbial Technology*, **2008**, 43, 115-119	3.8	95
155	Recent developments in yeast cell surface display toward extended applications in biotechnology. *Applied Microbiology and Biotechnology*, **2012**, 95, 577-91	5.7	93
154	Effects of Adsorption Conditions on Kinetics of Protein Adsorption and Conformational Changes at Ultrafine Silica Particles. *Journal of Colloid and Interface Science*, **1998**, 198, 34-41	9.3	90
153	Production of ethanol from cassava pulp via fermentation with a surface-engineered yeast strain displaying glucoamylase. *Renewable Energy*, **2009**, 34, 1354-1358	8.1	89
152	Display of cellulases on the cell surface of Saccharomyces cerevisiae for high yield ethanol production from high-solid lignocellulosic biomass. *Bioresource Technology*, **2012**, 108, 128-33	11	88
151	Production of L-Lysine from starch by Corynebacterium glutamicum displaying alpha-amylase on its cell surface. *Applied Microbiology and Biotechnology*, **2007**, 74, 1213-20	5.7	88
150	Effect of fatty acid membrane composition on whole-cell biocatalysts for biodiesel-fuel production. *Biochemical Engineering Journal*, **2004**, 21, 155-160	4.2	84
149	Efficient production of optically pure D-lactic acid from raw corn starch by using a genetically modified L-lactate dehydrogenase gene-deficient and alpha-amylase-secreting Lactobacillus plantarum strain. *Applied and Environmental Microbiology*, **2009**, 75, 462-7	4.8	82
148	Direct ethanol production from barley beta-glucan by sake yeast displaying Aspergillus oryzae beta-glucosidase and endoglucanase. *Journal of Bioscience and Bioengineering*, **2008**, 105, 622-7	3.3	82
147	Endowing non-cellulolytic microorganisms with cellulolytic activity aiming for consolidated bioprocessing. *Biotechnology Advances*, **2013**, 31, 754-63	17.8	80
146	Production of biodiesel fuel from soybean oil catalyzed by fungus whole-cell biocatalysts in ionic liquids. *Enzyme and Microbial Technology*, **2010**, 46, 51-55	3.8	80
145	Cell recycle batch fermentation of high-solid lignocellulose using a recombinant cellulase-displaying yeast strain for high yield ethanol production in consolidated bioprocessing. *Bioresource Technology*, **2013**, 135, 403-9	11	79
144	Effect of methanol and water contents on production of biodiesel fuel from plant oil catalyzed by various lipases in a solvent-free system. *Journal of Bioscience and Bioengineering*, **2001**, 91, 12-5	3.3	79
143	Direct production of L-lysine from raw corn starch by Corynebacterium glutamicum secreting Streptococcus bovis alpha-amylase using cspB promoter and signal sequence. *Applied Microbiology and Biotechnology*, **2007**, 77, 533-41	5.7	76
142	Alcoholic fermentation of xylose and mixed sugars using recombinant Saccharomyces cerevisiae engineered for xylose utilization. *Applied Microbiology and Biotechnology*, **2009**, 82, 1037-47	5.7	75
141	Isoflavone aglycones production from isoflavone glycosides by display of beta-glucosidase from Aspergillus oryzae on yeast cell surface. *Applied Microbiology and Biotechnology*, **2008**, 79, 51-60	5.7	75
140	Efficient yeast cell-surface display of exo- and endo-cellulase using the SED1 anchoring region and its original promoter. *Biotechnology for Biofuels*, **2014**, 7, 8	7.8	73

139	Repeated-batch fermentation of lignocellulosic hydrolysate to ethanol using a hybrid Saccharomyces cerevisiae strain metabolically engineered for tolerance to acetic and formic acids. *Bioresource Technology*, **2011**, 102, 7917-24	11	73
138	Display of active enzymes on the cell surface of Escherichia coli using PgsA anchor protein and their application to bioconversion. *Applied Microbiology and Biotechnology*, **2006**, 70, 564-72	5.7	73
137	Bioconversion of lignocellulose-derived sugars to ethanol by engineered Saccharomyces cerevisiae. *Critical Reviews in Biotechnology*, **2012**, 32, 22-48	9.4	69
136	Deletion of the PHO13 gene in Saccharomyces cerevisiae improves ethanol production from lignocellulosic hydrolysate in the presence of acetic and formic acids, and furfural. *Bioresource Technology*, **2012**, 111, 161-6	11	66
135	Double mutation of the PDC1 and ADH1 genes improves lactate production in the yeast Saccharomyces cerevisiae expressing the bovine lactate dehydrogenase gene. *Applied Microbiology and Biotechnology*, **2009**, 82, 883-90	5.7	66
134	Ethanol production from cellulosic materials using cellulase-expressing yeast. *Biotechnology Journal*, **2010**, 5, 449-55	5.6	66
133	Physicochemical and immunological characterization of hepatitis B virus envelope particles exclusively consisting of the entire L (pre-S1 + pre-S2 + S) protein. *Vaccine*, **2001**, 19, 3154-63	4.1	62
132	Kinetic and circular dichroism studies of enzymes adsorbed on ultrafine silica particles. *Applied Microbiology and Biotechnology*, **1993**, 39, 726-31	5.7	61
131	Efficient fermentation of xylose to ethanol at high formic acid concentrations by metabolically engineered Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2011**, 90, 997-1004	5.7	59
130	Development and application of thermo-sensitive immunomicrospheres for antibody purification. *Biotechnology and Bioengineering*, **1994**, 44, 1-6	4.9	59
129	Direct bioethanol production from cellulose by the combination of cellulase-displaying yeast and ionic liquid pretreatment. *Green Chemistry*, **2011**, 13, 2948	10	58
128	Homo-D-lactic acid fermentation from arabinose by redirection of the phosphoketolase pathway to the pentose phosphate pathway in L-lactate dehydrogenase gene-deficient Lactobacillus plantarum. *Applied and Environmental Microbiology*, **2009**, 75, 5175-8	4.8	58
127	Synergetic effect of yeast cell-surface expression of cellulase and expansin-like protein on direct ethanol production from cellulose. *Microbial Cell Factories*, **2013**, 12, 66	6.4	57
126	Beyond Native Cas9: Manipulating Genomic Information and Function. *Trends in Biotechnology*, **2017**, 35, 983-996	15.1	54
125	Development of recombinant Aspergillus oryzae whole-cell biocatalyst expressing lipase-encoding gene from Candida antarctica. *Applied Microbiology and Biotechnology*, **2007**, 75, 387-95	5.7	53
124	Preparation of a whole-cell biocatalyst of mutated Candida antarctica lipase B (mCALB) by a yeast molecular display system and its practical properties. *Applied Microbiology and Biotechnology*, **2007**, 75, 549-55	5.7	53
123	Efficient production of L-(+)-lactic acid from raw starch by Streptococcus bovis 148. *Journal of Bioscience and Bioengineering*, **2004**, 97, 423-5	3.3	52
122	Recent advances in yeast cell-surface display technologies for waste biorefineries. *Bioresource Technology*, **2016**, 215, 324-333	11	51

121	Enhanced D-lactic acid production from renewable resources using engineered Lactobacillus plantarum. *Applied Microbiology and Biotechnology*, **2016**, 100, 279-88	5.7	50
120	Direct ethanol production from cassava pulp using a surface-engineered yeast strain co-displaying two amylases, two cellulases, and β-glucosidase. *Applied Microbiology and Biotechnology*, **2011**, 90, 377-84	5.7	49
119	Preparation and comparative characterization of immobilized Aspergillus oryzae expressing Fusarium heterosporum lipase for enzymatic biodiesel production. *Applied Microbiology and Biotechnology*, **2008**, 81, 637-45	5.7	47
118	Cell surface engineering of industrial microorganisms for biorefining applications. *Biotechnology Advances*, **2015**, 33, 1403-11	17.8	46
117	Construction of a Pichia pastoris cell-surface display system using Flo1p anchor system. *Biotechnology Progress*, **2006**, 22, 989-93	2.8	46
116	Energy-saving direct ethanol production from low-temperature-cooked corn starch using a cell-surface engineered yeast strain co-displaying glucoamylase and α-amylase. *Biochemical Engineering Journal*, **2004**, 18, 149-153	4.2	46
115	Glutamate production from β-glucan using endoglucanase-secreting Corynebacterium glutamicum. *Applied Microbiology and Biotechnology*, **2011**, 90, 895-901	5.7	45
114	Development of an Aspergillus oryzae whole-cell biocatalyst coexpressing triglyceride and partial glyceride lipases for biodiesel production. *Bioresource Technology*, **2011**, 102, 6723-9	11	45
113	Dimensionality reduction for metabolome data using PCA, PLS, OPLS, and RFDA with differential penalties to latent variables. *Chemometrics and Intelligent Laboratory Systems*, **2009**, 98, 136-142	3.8	45
112	Combined cell-surface display- and secretion-based strategies for production of cellulosic ethanol with Saccharomyces cerevisiae. *Biotechnology for Biofuels*, **2015**, 8, 162	7.8	43
111	Effective xylose/cellobiose co-fermentation and ethanol production by xylose-assimilating S. cerevisiae via expression of β-glucosidase on its cell surface. *Enzyme and Microbial Technology*, **2008**, 43, 233-236	3.8	43
110	Lactic fermentation of cellobiose by a yeast strain displaying beta-glucosidase on the cell surface. *Applied Microbiology and Biotechnology*, **2008**, 79, 481-8	5.7	42
109	Regulation of the display ratio of enzymes on the Saccharomyces cerevisiae cell surface by the immunoglobulin G and cellulosomal enzyme binding domains. *Applied and Environmental Microbiology*, **2009**, 75, 4149-54	4.8	41
108	Evaluation of performance of different surface-engineered yeast strains for direct ethanol production from raw starch. *Applied Microbiology and Biotechnology*, **2006**, 70, 573-9	5.7	41
107	System using tandem repeats of the cA peptidoglycan-binding domain from Lactococcus lactis for display of both N- and C-terminal fusions on cell surfaces of lactic acid bacteria. *Applied and Environmental Microbiology*, **2008**, 74, 1117-23	4.8	39
106	D-lactic acid production from cellooligosaccharides and beta-glucan using L-LDH gene-deficient and endoglucanase-secreting Lactobacillus plantarum. *Applied Microbiology and Biotechnology*, **2010**, 85, 643-50	5.7	38
105	Improved ethanol production from xylose in the presence of acetic acid by the overexpression of the HAA1 gene in Saccharomyces cerevisiae. *Journal of Bioscience and Bioengineering*, **2015**, 119, 297-302	2.3	37
104	Cinnamic acid production using Streptomyces lividans expressing phenylalanine ammonia lyase. *Journal of Industrial Microbiology and Biotechnology*, **2011**, 38, 643-8	4.2	37

103	Adsorption of gamma-globulin, a model protein for antibody, on colloidal particles. *Biotechnology and Bioengineering*, **1991**, 37, 537-43	4.9	37
102	Efficient ethanol production from starch through development of novel flocculent yeast strains displaying glucoamylase and co-displaying or secreting □amylase. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 17, 179-187		36
101	Enhanced cell-surface display and secretory production of cellulolytic enzymes with Saccharomyces cerevisiae Sed1 signal peptide. *Biotechnology and Bioengineering*, **2016**, 113, 2358-66	4.9	36
100	Improvement of productivity of active horseradish peroxidase in Escherichia coli by coexpression of Dsb proteins. *Journal of Bioscience and Bioengineering*, **2000**, 90, 600-6	3.3	35
99	Specific protein delivery to target cells by antibody-displaying bionanocapsules. *Journal of Biochemistry*, **2008**, 144, 701-7	3.1	34
98	d-lactic acid production from renewable lignocellulosic biomass via genetically modified Lactobacillus plantarum. *Biotechnology Progress*, **2016**, 32, 271-8	2.8	33
97	Improved performance of a packed-bed reactor for biodiesel production through whole-cell biocatalysis employing a high-lipase-expression system. *Biochemical Engineering Journal*, **2012**, 63, 76-80	4.2	32
96	Creation of a cellooligosaccharide-assimilating Escherichia coli strain by displaying active beta-glucosidase on the cell surface via a novel anchor protein. *Applied and Environmental Microbiology*, **2011**, 77, 6265-70	4.8	32
95	Conformational changes in protein molecules upon adsorption on ultrafine particles. *Colloids and Surfaces B: Biointerfaces*, **1993**, 1, 197-201	6	32
94	A display of pH-sensitive fusogenic GALA peptide facilitates endosomal escape from a Bio-nanocapsule via an endocytic uptake pathway. *Journal of Nanobiotechnology*, **2014**, 12, 11	9.4	31
93	Production of S-lactoylglutathione by high activity whole cell biocatalysts prepared by permeabilization of recombinant saccharomyces cerevisiae with alcohols. *Biotechnology and Bioengineering*, **1999**, 64, 54-60	4.9	31
92	Over-production of various secretory-form proteins in Streptomyces lividans. *Protein Expression and Purification*, **2010**, 73, 198-202	2	30
91	Improvement in lactic acid production from starch using alpha-amylase-secreting Lactococcus lactis cells adapted to maltose or starch. *Applied Microbiology and Biotechnology*, **2007**, 75, 1007-13	5.7	30
90	Gene expression cross-profiling in genetically modified industrial Saccharomyces cerevisiae strains during high-temperature ethanol production from xylose. *Journal of Biotechnology*, **2013**, 163, 50-60	3.7	29
89	Co-fermentation of cellobiose and xylose using beta-glucosidase displaying diploid industrial yeast strain OC-2. *Applied Microbiology and Biotechnology*, **2010**, 87, 1975-82	5.7	28
88	Improvement of cellulose-degrading ability of a yeast strain displaying Trichoderma reesei endoglucanase II by recombination of cellulose-binding domains. *Biotechnology Progress*, **2004**, 20, 688-91	2.8	28
87	The specific delivery of proteins to human liver cells by engineered bio-nanocapsules. *FEBS Journal*, **2005**, 272, 3651-60	5.7	28
86	Recent advances in the metabolic engineering of Corynebacterium glutamicum for the production of lactate and succinate from renewable resources. *Journal of Industrial Microbiology and Biotechnology*, **2015**, 42, 375-89	4.2	27

85	Targeted Nucleotide Editing Technologies for Microbial Metabolic Engineering. *Biotechnology Journal*, **2018**, 13, e1700596	5.6	27
84	Reduction of furan derivatives by overexpressing NADH-dependent Adh1 improves ethanol fermentation using xylose as sole carbon source with Saccharomyces cerevisiae harboring XR-XDH pathway. *Applied Microbiology and Biotechnology*, **2013**, 97, 2597-607	5.7	27
83	Cocktail Integration of xylose assimilation genes for efficient ethanol production from xylose in Saccharomyces cerevisiae. *Journal of Bioscience and Bioengineering*, **2013**, 116, 333-6	3.3	27
82	Efficient co-displaying and artificial ratio control of amylase and glucoamylase on the yeast cell surface by using combinations of different anchoring domains. *Applied Microbiology and Biotechnology*, **2015**, 99, 1655-63	5.7	27
81	Highly efficient biodiesel production by a whole-cell biocatalyst employing a system with high lipase expression in Aspergillus oryzae. *Applied Microbiology and Biotechnology*, **2011**, 90, 1171-7	5.7	27
80	Immobilized recombinant Aspergillus oryzae expressing heterologous lipase: An efficient whole-cell biocatalyst for enantioselective transesterification in non-aqueous medium. *Journal of Molecular Catalysis B: Enzymatic*, **2007**, 48, 33-37		27
79	Cell wall structure suitable for surface display of proteins in Saccharomyces cerevisiae. *Yeast*, **2014**, 31, 67-76	3.4	26
78	Process engineering and optimization of glycerol separation in a packed-bed reactor for enzymatic biodiesel production. *Bioresource Technology*, **2011**, 102, 10419-24	11	26
77	Production of optically pure D-lactic acid from brown rice using metabolically engineered Lactobacillus plantarum. *Applied Microbiology and Biotechnology*, **2017**, 101, 1869-1875	5.7	25
76	Utilization of lactic acid bacterial genes in Synechocystis sp. PCC 6803 in the production of lactic acid. *Bioscience, Biotechnology and Biochemistry*, **2013**, 77, 966-70	2.1	25
75	Use of mono- and diacylglycerol lipase as immobilized fungal whole cells to convert residual partial glycerides enzymatically into fatty acid methyl esters. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 58, 93-97		25
74	Targeting cancer cell-specific RNA interference by siRNA delivery using a complex carrier of affibody-displaying bio-nanocapsules and liposomes. *Journal of Nanobiotechnology*, **2013**, 11, 19	9.4	24
73	A robust whole-cell biocatalyst that introduces a thermo- and solvent-tolerant lipase into Aspergillus oryzae cells: characterization and application to enzymatic biodiesel production. *Enzyme and Microbial Technology*, **2013**, 52, 331-5	3.8	24
72	Implementation of a transhydrogenase-like shunt to counter redox imbalance during xylose fermentation in Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2013**, 97, 1669-78	5.7	23
71	Enhancement of ethanol production by promoting surface contact between starch granules and arming yeast in direct ethanol fermentation. *Journal of Bioscience and Bioengineering*, **2007**, 103, 95-7	3.3	23
70	Inheritance of co-edited genes by CRISPR-based targeted nucleotide substitutions in rice. *Plant Physiology and Biochemistry*, **2018**, 131, 78-83	5.4	22
69	Ethanolysis of rapeseed oil to produce biodiesel fuel catalyzed by Fusarium heterosporum lipase-expressing fungus immobilized whole-cell biocatalysts. *Journal of Molecular Catalysis B: Enzymatic*, **2010**, 66, 101-104		22
68	Development and evaluation of consolidated bioprocessing yeast for ethanol production from ionic liquid-pretreated bagasse. *Bioresource Technology*, **2017**, 245, 1413-1420	11	21

67	Continuous production of biodiesel using whole-cell biocatalysts: Sequential conversion of an aqueous oil emulsion into anhydrous product. *Biochemical Engineering Journal*, **2012**, 68, 7-11	4.2	21
66	Affibody-displaying bionanocapsules for specific drug delivery to HER2-expressing cancer cells. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 5726-31	2.9	21
65	Metabolic Engineering of Lactobacillus plantarum for Direct l-Lactic Acid Production From Raw Corn Starch. *Biotechnology Journal*, **2018**, 13, e1700517	5.6	20
64	Simultaneous improvement of saccharification and ethanol production from crystalline cellulose by alleviation of irreversible adsorption of cellulase with a cell surface-engineered yeast strain. *Applied Microbiology and Biotechnology*, **2013**, 97, 2231-7	5.7	20
63	Display of both N- and C-terminal target fusion proteins on the Aspergillus oryzae cell surface using a chitin-binding module. *Applied Microbiology and Biotechnology*, **2010**, 87, 1783-9	5.7	20
62	Adsorption activity and conformation of α-amylase on various ultrafine silica particles modified with polymer silane coupling agents. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1996**, 109, 129-136	5.1	20
61	Development of a GIN11/FRT-based multiple-gene integration technique affording inhibitor-tolerant, hemicellulolytic, xylose-utilizing abilities to industrial Saccharomyces cerevisiae strains for ethanol production from undetoxified lignocellulosic hemicelluloses. *Microbial Cell Factories*, **2014**, 13, 145	6.4	19
60	Effect of flocculation on performance of arming yeast in direct ethanol fermentation. *Applied Microbiology and Biotechnology*, **2006**, 73, 60-6	5.7	19
59	Improvement of protein production in lactic acid bacteria using 5′-untranslated leader sequence of slpA from Lactobacillus acidophilus. Improvement in protein production using UTLS. *Applied Microbiology and Biotechnology*, **2006**, 73, 366-73	5.7	19
58	Surfactant-modified yeast whole-cell biocatalyst displaying lipase on cell surface for enzymatic production of structured lipids in organic media. *Applied Microbiology and Biotechnology*, **2010**, 87, 537-43	5.7	18
57	Improvements in ethanol production from xylose by mating recombinant xylose-fermenting Saccharomyces cerevisiae strains. *Applied Microbiology and Biotechnology*, **2012**, 94, 1585-92	5.7	17
56	Cell-surface display of enzymes by the yeast Saccharomyces cerevisiae for synthetic biology. *FEMS Yeast Research*, **2015**, 15, 1-9	3.1	16
55	Characterization of bio-nanocapsule as a transfer vector targeting human hepatocyte carcinoma by disulfide linkage modification. *Journal of Controlled Release*, **2007**, 118, 348-56	11.7	16
54	Metabolic engineering of via CRISPR-Cas9 genome editing for lactic acid production from glucose and cellobiose. *Metabolic Engineering Communications*, **2017**, 5, 60-67	6.5	15
53	Co-fermentation of cellulose/xylan using engineered industrial yeast strain OC-2 displaying both β-glucosidase and β-xylosidase. *Applied Microbiology and Biotechnology*, **2011**, 91, 1553-9	5.7	15
52	Breeding of industrial diploid yeast strain with chromosomal integration of multiple beta-glucosidase genes. *Journal of Bioscience and Bioengineering*, **2008**, 106, 594-7	3.3	15
51	Metabolic engineering of the 2-ketobutyrate biosynthetic pathway for 1-propanol production in Saccharomyces cerevisiae. *Microbial Cell Factories*, **2018**, 17, 38	6.4	14
50	4-Vinylphenol biosynthesis from cellulose as the sole carbon source using phenolic acid decarboxylase- and tyrosine ammonia lyase-expressing Streptomyces lividans. *Bioresource Technology*, **2015**, 180, 59-65	11	14

49	Near infrared spectroscopy as high-throughput technology for screening of xylose-fermenting recombinant Saccharomyces cerevisiae strains. *Analytical Chemistry*, **2011**, 83, 4023-9	7.8	14
48	Biotinylated bionanocapsules for displaying diverse ligands toward cell-specific delivery. *Journal of Biochemistry*, **2009**, 146, 867-74	3.1	14
47	Enhanced cell-surface display of a heterologous protein using SED1 anchoring system in SED1-disrupted Saccharomyces cerevisiae strain. *Journal of Bioscience and Bioengineering*, **2018**, 125, 306-310	3.3	14
46	Construction of arginine-rich peptide displaying bionanocapsules. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 1473-6	2.9	13
45	Production of alkyl glucoside from cellooligosaccharides using yeast strains displaying Aspergillus aculeatus β-glucosidase 1. *Journal of Molecular Catalysis B: Enzymatic*, **2007**, 49, 92-97		13
44	Preparation of immobilized enzyme with high activity using affinity tag based on proteins A and G. *Biotechnology and Bioengineering*, **1995**, 46, 421-8	4.9	13
43	Dispersion of coagulated particles by contractile flow to orifice.. *Journal of Chemical Engineering of Japan*, **1992**, 25, 502-507	0.8	13
42	Multiple gene substitution by Target-AID base-editing technology in tomato. *Scientific Reports*, **2020**, 10, 20471	4.9	13
41	Displaying non-natural, functional molecules on yeast surfaces via biotin-streptavidin interaction. *Journal of Biotechnology*, **2010**, 145, 79-83	3.7	12
40	Effect of cultivation conditions on cell-surface display of Flo1 fusion protein using sake yeast. *Biochemical Engineering Journal*, **2007**, 33, 232-237	4.2	12
39	An integrative process model of enzymatic biodiesel production through ethanol fermentation of brown rice followed by lipase-catalyzed ethanolysis in a water-containing system. *Enzyme and Microbial Technology*, **2013**, 52, 118-22	3.8	11
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