

# Jun Ogawa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8493720/publications.pdf>

Version: 2024-02-01

190  
papers

6,051  
citations

71102

41  
h-index

91884

69  
g-index

198  
all docs

198  
docs citations

198  
times ranked

5130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and characterization of the $\omega$ -3-docosapentaenoic acid-producing microorganism <i>Aurantiochytrium</i> sp. T7. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 229-234.	2.2	1
2	Microbial production of hydroxy fatty acids utilizing crude glycerol. <i>Biocatalysis and Agricultural Biotechnology</i> , 2022, 39, 102286.	3.1	1
3	Intestinal microbe-dependent $\omega$ 3 lipid metabolite $\hat{\pm}$ KetoA prevents inflammatory diseases in mice and cynomolgus macaques. <i>Mucosal Immunology</i> , 2022, 15, 289-300.	6.0	16
4	<i>S</i> -Tryptophan-starved cultivation enhances <i>S</i> -allyl-cysteine synthesis in various food-related microorganisms. <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 792-799.	1.3	2
5	Isolation and characterization of indigo-reducing bacteria and analysis of microbiota from indigo fermentation suspensions. <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 273-281.	1.3	4
6	Semi-rational Engineering of a Promiscuous Fatty Acid Hydratase for Alteration of Regioselectivity. <i>ChemBioChem</i> , 2022, 23, e202100606.	2.6	4
7	Generation of <i>Fusarium oxysporum</i> -suppressive soil with non-soil carriers using a multiple-parallel-mineralization technique. <i>Scientific Reports</i> , 2022, 12, 7968.	3.3	1
8	Quantification of leuco-indigo in indigo-dye-fermenting suspension by normal pulse voltammetry. <i>Journal of Bioscience and Bioengineering</i> , 2022, 134, 84-88.	2.2	3
9	Identification of tryptophanase from <i>Escherichia coli</i> for the synthesis of <i>S</i> -allyl-l-cysteine and related <i>S</i> -substituted cysteine derivatives. <i>Journal of Bioscience and Bioengineering</i> , 2022, 134, 182-186.	2.2	1
10	Characterization of regioselective glycosyltransferase of <i>Rhizobium pusense</i> JCM 16209T useful for resveratrol 4-O- $\hat{\pm}$ -d-glucoside production. <i>Journal of Bioscience and Bioengineering</i> , 2022, 134, 213-219.	2.2	5
11	Characterization of xanthine oxidase from <i>Cellulosimicrobium funkei</i> possessing hypoxanthine-metabolizing activity. <i>Journal of Applied Microbiology</i> , 2021, 130, 2132-2140.	3.1	0
12	Mechanistic Insights into Indigo Reduction in Indigo Fermentation: A Voltammetric Study. <i>Electrochemistry</i> , 2021, 89, 25-30.	1.4	14
13	Characterization of $\omega$ 3 fatty acid desaturases from oomycetes and their application toward eicosapentaenoic acid production in <i>Mortierella alpina</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 1252-1265.	1.3	2
14	Voltammetric in-situ monitoring of leuco-indigo in indigo-fermenting suspensions. <i>Journal of Bioscience and Bioengineering</i> , 2021, 131, 565-571.	2.2	3
15	Medium-chain triglycerides inhibit long-chain triglyceride-induced GIP secretion through GPR120-dependent inhibition of CCK. <i>iScience</i> , 2021, 24, 102963.	4.1	11
16	A three-component monooxygenase from <i>Rhodococcus wratislaviensis</i> may expand industrial applications of bacterial enzymes. <i>Communications Biology</i> , 2021, 4, 16.	4.4	6
17	Enzyme systems involved in glucosinolate metabolism in <i>Companilactobacillus farciminis</i> KB1089. <i>Scientific Reports</i> , 2021, 11, 23715.	3.3	8
18	A bacterial metabolite induces Nrf2-mediated anti-oxidative responses in gingival epithelial cells by activating the MAPK signaling pathway. <i>Archives of Oral Biology</i> , 2020, 110, 104602.	1.8	18

#	ARTICLE	IF	CITATIONS
19	Rational Engineering of Hydratase from <i>Lactobacillus acidophilus</i> Reveals Critical Residues Directing Substrate Specificity and Regioselectivity. <i>ChemBioChem</i> , 2020, 21, 550-563.	2.6	23
20	A possible beneficial effect of <i>Bacteroides</i> on faecal lipopolysaccharide activity and cardiovascular diseases. <i>Scientific Reports</i> , 2020, 10, 13009.	3.3	38
21	The anti-inflammatory effect of the gut lactic acid bacteria-generated metabolite 10-oxo-cis-6,trans-11-octadecadienoic acid on monocytes. <i>Biochemical and Biophysical Research Communications</i> , 2020, 530, 342-347.	2.1	5
22	Purification and characterization of molybdenum-containing aldehyde dehydrogenase that oxidizes benzyl maltol derivative from <i>Pseudomonas nitroreducens</i> SB32154. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 2390-2400.	1.3	2
23	Fermentative Production of Oils Rich in Polyunsaturated Fatty Acids by the Molecularly Bred Strains of <i>Mortierella alpina</i> 1S-4. <i>Oleoscience</i> , 2020, 20, 103-109.	0.0	0
24	Gut microbial fatty acid metabolites (KetoA and KetoC) affect the progression of nonalcoholic steatohepatitis and reverse cholesterol transport metabolism in mouse model. <i>Lipids</i> , 2020, 55, 151-162.	1.7	6
25	Evaluation of electron-transferring cofactor mediating enzyme systems involved in urolithin dehydroxylation in <i>Gordonibacter urolithinfaciens</i> DSM 27213. <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 552-557.	2.2	11
26	Application of Enzymatic Reactions Involving Electron Transfer and Energy Supply for the Production of Useful Chemicals. , 2020, , 101-119.		0
27	Antimicrobial function of the polyunsaturated fatty acid KetoC in an experimental model of periodontitis. <i>Journal of Periodontology</i> , 2019, 90, 1470-1480.	3.4	15
28	Gut microbial metabolites of linoleic acid are metabolized by accelerated peroxisomal $\beta$ -oxidation in mammalian cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1619-1628.	2.4	7
29	Functional Analysis and Application of Food Lipid Metabolites Produced by Gut Microorganisms. <i>Oleoscience</i> , 2019, 19, 133-138.	0.0	0
30	Gut microbiota confers host resistance to obesity by metabolizing dietary polyunsaturated fatty acids. <i>Nature Communications</i> , 2019, 10, 4007.	12.8	231
31	Microbial Cyclic Imide Metabolism and Its Biotechnological Application. , 2019, , 65-90.		0
32	Cloning of a novel gene involved in alkane biosynthesis from <i>Klebsiella</i> sp. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5917-5923.	3.6	1
33	Cobalt-dependent inhibition of nitrite oxidation in <i>Nitrobacter winogradskyi</i> . <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 463-467.	2.2	4
34	16S rRNA Gene Amplicon Sequencing of Microbiota in Polybutylene Succinate Adipate-Packed Denitrification Reactors Used for Water Treatment of Land-Based Recirculating Aquaculture Systems. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	4
35	Production of prostaglandin F <sub>2</sub> ± by molecular breeding of an oleaginous fungus <i>Mortierella alpina</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 774-780.	1.3	1
36	Effects of alkyl gallates, fatty acids, and acylglycerols on the growth of the psychrotolerant bacterium <i>Sporosarcina</i> sp. S92h. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 294-298.	3.1	2

#	ARTICLE	IF	CITATIONS
37	Arachidonic acid production by the oleaginous fungus <i>Mortierella alpina</i> 1S-4: A review. <i>Journal of Advanced Research</i> , 2018, 11, 15-22.	9.5	62
38	Attempt to simultaneously generate three chiral centers in 4-hydroxyisoleucine with microbial carbonyl reductases. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1327-1332.	3.0	3
39	New nucleoside hydrolase with transribosylation activity from <i>Agromyces</i> sp. MM-1 and its application for enzymatic synthesis of 2'-O-methylribonucleosides. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 38-45.	2.2	6
40	A search for microorganisms producing medium-chain alkanes from aldehydes. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 87-91.	2.2	5
41	Linolenic acid-derived metabolites from gut lactic acid bacteria induce differentiation of anti-inflammatory M2 macrophages through G protein-coupled receptor 40. <i>FASEB Journal</i> , 2018, 32, 304-318.	0.5	69
42	Electrochemical Study on the Extracellular Electron Transfer Pathway from <i>Shewanella</i> Strain Hac319 to Electrodes. <i>Analytical Sciences</i> , 2018, 34, 1177-1182.	1.6	6
43	Inhibitory effect of the gut microbial linoleic acid metabolites, 10-oxo-trans-11-octadecenoic acid and 10-hydroxy-cis-12-octadecenoic acid, on BV-2 microglial cell activation. <i>Journal of Pharmacological Sciences</i> , 2018, 138, 9-15.	2.5	22
44	Lipid production via simultaneous conversion of glucose and xylose by a novel yeast, <i>Cystobasidium iriomotense</i> . <i>PLoS ONE</i> , 2018, 13, e0202164.	2.5	18
45	Novel Mechanism of Fatty Acid Sensing in Enteroendocrine Cells: Specific Structures in Oxo-Fatty Acids Produced by Gut Bacteria Are Responsible for CCK Secretion in STC1 Cells via GPR40. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1800146.	3.3	15
46	Hydratase, Dehydrogenase, Isomerase, and Enone Reductase Involved in Fatty Acid Saturation Metabolism. , 2018, , 119-137.		1
47	A bacterial metabolite ameliorates periodontal pathogen-induced gingival epithelial barrier disruption via GPR40 signaling. <i>Scientific Reports</i> , 2018, 8, 9008.	3.3	42
48	Inhibitory effect of the gut microbial linoleic acid metabolites on BV-2 microglial cell activation. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO1-1-110.	0.0	0
49	Enzymatic synthesis of 2'-O-methylribonucleosides with a nucleoside hydrolase family enzyme from <i>Lactobacillus buchneri</i> LBK78. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 659-664.	2.2	5
50	Supplemental feeding of a gut microbial metabolite of linoleic acid, 10-hydroxy-cis-12-octadecenoic acid, alleviates spontaneous atopic dermatitis and modulates intestinal microbiota in NC/nga mice. <i>International Journal of Food Sciences and Nutrition</i> , 2017, 68, 941-951.	2.8	61
51	Synthesized enone fatty acids resembling metabolites from gut microbiota suppress macrophage-mediated inflammation in adipocytes. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1700064.	3.3	36
52	Modulation of fatty acid composition and growth in <i>Sporosarcina</i> species in response to temperatures and exogenous branched-chain amino acids. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 5071-5080.	3.6	5
53	Engineering a short-chain dehydrogenase/reductase for the stereoselective production of (2S,3R,4S)-4-hydroxyisoleucine with three asymmetric centers. <i>Scientific Reports</i> , 2017, 7, 13703.	3.3	11
54	Engineering of the cytochrome P450 monooxygenase system for benzyl maltol hydroxylation. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6651-6658.	3.6	10

#	ARTICLE	IF	CITATIONS
55	10-Oxo-trans-11-octadecenoic acid, a linoleic acid metabolite produced by gut lactic acid bacteria, enhances energy metabolism by activation of TRPV1. <i>FASEB Journal</i> , 2017, 31, 5036-5048.	0.5	65
56	Metabolic engineering of oleaginous fungus <i>Mortierella alpina</i> for high production of oleic and linoleic acids. <i>Bioresource Technology</i> , 2017, 245, 1610-1615.	9.6	26
57	Draft Genome Sequences of the Xylose-Fermenting Yeast <i>Scheffersomyces shehatae</i> NBRC 1983 and a Thermotolerant Isolate of <i>S. shehatae</i> ATY839 (JCM 18690). <i>Genome Announcements</i> , 2017, 5, .	0.8	2
58	Novel fatty acid metabolism in lactic acid bacteria and the physiological function of metabolites. <i>Japanese Journal of Lactic Acid Bacteria</i> , 2017, 28, 58-65.	0.1	0
59	Efficient enzymatic production of hydroxy fatty acids by linoleic acid $\Delta^9$ hydratase from <i>Lactobacillus plantarum</i> AKU 1009a. <i>Journal of Applied Microbiology</i> , 2016, 120, 1282-1288.	3.1	41
60	Lipid production through simultaneous utilization of glucose, xylose, and l-arabinose by <i>Pseudozyma hubeiensis</i> : a comparative screening study. <i>AMB Express</i> , 2016, 6, 58.	3.0	32
61	Production of ricinoleic acid-containing monoester triacylglycerides in an oleaginous diatom, <i>Chaetoceros gracilis</i> . <i>Scientific Reports</i> , 2016, 6, 36809.	3.3	15
62	A novel nucleoside hydrolase from <i>Lactobacillus buchneri</i> LBK78 catalyzing hydrolysis of 2'-O-methylribonucleosides. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 1568-1576.	1.3	4
63	Production of dicarboxylic acids from novel unsaturated fatty acids by laccase-catalyzed oxidative cleavage. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 2132-2137.	1.3	10
64	Analysis of microbial community and nitrogen transition with enriched nitrifying soil microbes for organic hydroponics. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 2247-2254.	1.3	29
65	Novel Enzyme Family Found in Filamentous Fungi Catalyzing <i>trans</i> -4-Hydroxylation of $\gamma$ -Pipelic Acid. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2070-2077.	3.1	33
66	Microbial production of dihomomethyl-linolenic acid by $\Delta^5$ -desaturase gene-disruptants of <i>Mortierella alpina</i> 1S-4. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 22-26.	2.2	21
67	10-Oxo-trans-11-octadecenoic acid generated from linoleic acid by a gut lactic acid bacterium <i>Lactobacillus plantarum</i> is cytoprotective against oxidative stress. <i>Toxicology and Applied Pharmacology</i> , 2016, 296, 1-9.	2.8	43
68	New lipid science in our inner ecosystem. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 577-578.	1.5	9
69	Characterization of hydroxy fatty acid dehydrogenase involved in polyunsaturated fatty acid saturation metabolism in <i>Lactobacillus plantarum</i> AKU 1009a. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 117, 7-12.	1.8	11
70	Characterization of the linoleic acid $\Delta^9$ hydratase catalyzing the first step of polyunsaturated fatty acid saturation metabolism in <i>Lactobacillus plantarum</i> AKU 1009a. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 636-641.	2.2	67
71	Trehalose accumulation enhances tolerance of <i>Saccharomyces cerevisiae</i> to acetic acid. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 172-175.	2.2	27
72	Isolation and characterization of psychrotolerant endospore-forming <i>Sporosarcina</i> species associated with minced fish meat (surimi). <i>International Journal of Food Microbiology</i> , 2015, 199, 15-22.	4.7	15

#	ARTICLE	IF	CITATIONS
73	Multi-Enzymatic Synthesis of Optically Pure $\beta$ -Hydroxy $\alpha$ -Amino Acids. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 767-774.	4.3	38
74	Direct ethanol production from starch using a natural isolate, <i>Scheffersomyces shehatae</i> : Toward consolidated bioprocessing. <i>Scientific Reports</i> , 2015, 5, 9593.	3.3	43
75	A novel unsaturated fatty acid hydratase toward C16 to C22 fatty acids from <i>Lactobacillus acidophilus</i> . <i>Journal of Lipid Research</i> , 2015, 56, 1340-1350.	4.2	74
76	A new aldehyde oxidase catalyzing the conversion of glycolaldehyde to glycolate from <i>Burkholderia</i> sp. AIU 129. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 410-415.	2.2	6
77	Gene targeting in the oil-producing fungus <i>Mortierella alpina</i> 1S-4 and construction of a strain producing a valuable polyunsaturated fatty acid. <i>Current Genetics</i> , 2015, 61, 579-589.	1.7	11
78	Omega-3 eicosatetraenoic acid production by molecular breeding of the mutant strain S14 derived from <i>Mortierella alpina</i> 1S-4. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 299-304.	2.2	16
79	A Gut Microbial Metabolite of Linoleic Acid, 10-Hydroxy-cis-12-octadecenoic Acid, Ameliorates Intestinal Epithelial Barrier Impairment Partially via GPR40-MEK-ERK Pathway. <i>Journal of Biological Chemistry</i> , 2015, 290, 2902-2918.	3.4	189
80	Transformation of Zygomycete <i>Mortierella alpina</i> Using Biolistic Particle Bombardment. <i>Fungal Biology</i> , 2015, , 135-140.	0.6	2
81	Eicosapentaenoic acid (EPA) production by an oleaginous fungus <i>Mortierella alpina</i> expressing heterologous the $\Delta^7$ desaturase gene under ordinary temperature. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 1919-1927.	1.5	42
82	10-oxo-12(Z)-octadecenoic acid, a linoleic acid metabolite produced by gut lactic acid bacteria, potentially activates PPAR $\alpha$ and stimulates adipogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2015, 459, 597-603.	2.1	59
83	Gut Microbial Fatty Acid Metabolites Reduce Triacylglycerol Levels in Hepatocytes. <i>Lipids</i> , 2015, 50, 1093-1102.	1.7	32
84	Imidase catalyzing desymmetric imide hydrolysis forming optically active 3-substituted glutaric acid monoamides for the synthesis of gamma-aminobutyric acid (GABA) analogs. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9961-9969.	3.6	7
85	Disruption of <i>lig4</i> improves gene targeting efficiency in the oleaginous fungus <i>Mortierella alpina</i> 1S-4. <i>Journal of Biotechnology</i> , 2015, 208, 63-69.	3.8	13
86	Lactic acid bacteria-containing chocolate as a practical probiotic product with increased acid tolerance. <i>Biocatalysis and Agricultural Biotechnology</i> , 2015, 4, 773-777.	3.1	27
87	The Case for an Early Biological Origin of DNA. <i>Journal of Molecular Evolution</i> , 2014, 79, 204-212.	1.8	25
88	Biohydrogenation of C20 polyunsaturated fatty acids by anaerobic bacteria. <i>Journal of Lipid Research</i> , 2014, 55, 1855-1863.	4.2	31
89	Structural optimization of SadA, an Fe(II)- and $\alpha$ -ketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-L-threo-3,4-dimethoxyphenylserine. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1458-1461.	2.1	15
90	Characterization of a novel L-amino acid oxidase with protein oxidizing activity from <i>Penicillium steckii</i> AIU 027. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 690-695.	2.2	3

#	ARTICLE	IF	CITATIONS
91	Novel alcohol oxidase with glycolate oxidase activity from <i>Ochrobactrum</i> sp. AIU 033. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 105, 41-48.	1.8	12
92	β-Glucuronidase from <i>Lactobacillus brevis</i> useful for baicalin hydrolysis belongs to glycoside hydrolase family 30. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4021-4032.	3.6	42
93	Characteristics and biotechnology applications of aliphatic amino acid hydroxylases belonging to the Fe(II)/α-ketoglutarate-dependent dioxygenase superfamily. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3869-3876.	3.6	42
94	Selection and characterization of promoters based on genomic approach for the molecular breeding of oleaginous fungus <i>Mortierella alpina</i> 1S-4. <i>Current Genetics</i> , 2014, 60, 183-191.	1.7	13
95	Characterization of galactose-dependent promoters from an oleaginous fungus <i>Mortierella alpina</i> 1S-4. <i>Current Genetics</i> , 2014, 60, 175-182.	1.7	8
96	Selection of oleaginous yeasts with high lipid productivity for practical biodiesel production. <i>Bioresource Technology</i> , 2014, 153, 230-235.	9.6	87
97	Production of a pharmaceutical intermediate via biohydroxylation using whole cells of <i>Rhodococcus rubropertinctus</i> N82. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 1772-1776.	1.3	3
98	Achlorophyllous alga <i>Prototheca zopfii</i> oxidizes n-alkanes with different carbon-chain lengths through a unique subterminal oxidation pathway. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 275-277.	2.2	0
99	<i>Cryptococcus terricola</i> is a promising oleaginous yeast for biodiesel production from starch through consolidated bioprocessing. <i>Scientific Reports</i> , 2014, 4, 4776.	3.3	61
100	Microbial Production of Functional Polyunsaturated Fatty Acids and Their Derivatives. , 2014, , 207-218.		0
101	Novel Functional Lipid Development Based on the Analysis of Gut Microbial Lipid Metabolism. <i>Oleoscience</i> , 2014, 14, 375-380.	0.0	0
102	Enzymatic synthesis of chiral amino acid sulfoxides by Fe(II)/α-ketoglutarate-dependent dioxygenase. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 990-994.	1.8	18
103	l-Leucine 5-hydroxylase of <i>Nostoc punctiforme</i> is a novel type of Fe(II)/α-ketoglutarate-dependent dioxygenase that is useful as a biocatalyst. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2467-2472.	3.6	44
104	Metabolic engineering for the production of polyunsaturated fatty acids by oleaginous fungus <i>Mortierella alpina</i> 1S-4. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 417-422.	2.2	73
105	Polyunsaturated fatty acid saturation by gut lactic acid bacteria affecting host lipid composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17808-17813.	7.1	305
106	Isolation and Characterization of a Docosahexaenoic Acid-Phospholipids Producing Microorganism <i>Cryptocodium</i> sp. D31. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1837-1844.	1.9	11
107	Hydroxy fatty acid production by <i>Pediococcus</i> sp.. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 386-393.	1.5	24
108	Characterization of a new enzyme oxidizing β-amino group of aminocarboxylic acid, aminoalcohols and amines from <i>Phialemonium</i> sp. AIU 274. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 96, 89-95.	1.8	3

#	ARTICLE	IF	CITATIONS
109	Characterization of a trifunctional fatty acid desaturase from oleaginous filamentous fungus <i>Mortierella alpina</i> 1S-4 using a yeast expression system. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 672-676.	2.2	30
110	A novel <i>l</i> -isoleucine 4 $\alpha$ -dioxygenase and <i>l</i> -isoleucine dihydroxylation cascade in <i>Pantoea ananatis</i> . <i>MicrobiologyOpen</i> , 2013, 2, 471-481.	3.0	11
111	Crystal Structure of a Novel N-Substituted L-Amino Acid Dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>PLoS ONE</i> , 2013, 8, e63996.	2.5	19
112	Polyunsaturated fatty acids production and transformation by <i>Mortierella alpina</i> and anaerobic bacteria. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 1107-1113.	1.5	10
113	Construction of microbial platform for an energy-requiring bioprocess: practical 2 $\alpha$ -deoxyribonucleoside production involving a C $\alpha$ -C coupling reaction with high energy substrates. <i>Microbial Cell Factories</i> , 2012, 11, 82.	4.0	11
114	Effect of pretreatment of hydrothermally processed rice straw with laccase-displaying yeast on ethanol fermentation. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 939-948.	3.6	39
115	Extracellular oxidases of <i>Cerrena</i> sp. complementarily functioning in artificial dye decolorization including laccase, manganese peroxidase, and novel versatile peroxidases. <i>Biocatalysis and Agricultural Biotechnology</i> , 2012, 1, 220-225.	3.1	20
116	Oxidative pyrimidine metabolism in <i>Rhodococcus erythropolis</i> useful for valuable nucleoside synthesis: Discovery of a novel amidohydrolase, ureidomalonnase. <i>Biocatalysis and Agricultural Biotechnology</i> , 2012, 1, 264-266.	3.1	3
117	$\beta$ -Aryl- $\beta$ -amino acid aminotransferase from <i>Variovorax</i> sp. JH2 is useful for enantioselective $\beta$ -phenylalanine production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2012, 1, 253-258.	3.1	4
118	A novel family of bacterial dioxygenases that catalyse the hydroxylation of free l-amino acids. <i>FEMS Microbiology Letters</i> , 2012, 331, 97-104.	1.8	30
119	Production of Microbial Lipids Containing Arachidonic Acid and Its Related Polyunsaturated Fatty Acids. <i>Oleoscience</i> , 2012, 12, 263-272.	0.0	1
120	Novel multi-component enzyme machinery in lactic acid bacteria catalyzing C C double bond migration useful for conjugated fatty acid synthesis. <i>Biochemical and Biophysical Research Communications</i> , 2011, 416, 188-193.	2.1	52
121	A novel l-isoleucine metabolism in <i>Bacillus thuringiensis</i> generating (2S,3R,4S)-4-hydroxyisoleucine, a potential insulinotropic and anti-obesity amino acid. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 1929-1938.	3.6	50
122	Linoleic Acid Isomerase in <i>Lactobacillus plantarum</i> AKU1009a Proved to Be a Multi-Component Enzyme System Requiring Oxidoreduction Cofactors. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 318-322.	1.3	51
123	Characterization of <i>Bacillus thuringiensis</i> <i>l</i> -isoleucine Dioxygenase for Production of Useful Amino Acids. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6926-6930.	3.1	78
124	Metabolic engineering of <i>Escherichia coli</i> to produce (2S, 3R, 4S)-4-hydroxyisoleucine. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 719-726.	3.6	70
125	Two laccase isoenzymes and a peroxidase of a commercial laccase-producing basidiomycete, <i>Trametes</i> sp. Ha1. <i>New Biotechnology</i> , 2010, 27, 317-323.	4.4	14
126	Arachidonic Acid-Producing <i>Mortierella alpina</i> : Creation of Mutants, Isolation of the Related Enzyme Genes, and Molecular Breeding. , 2010, , 29-49.		5



#	ARTICLE	IF	CITATIONS
127	Establishment of <i>Agrobacterium tumefaciens</i> -Mediated Transformation of an Oleaginous Fungus, <i>Mortierella alpina</i> 1S-4, and Its Application for Eicosapentaenoic Acid Producer Breeding. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5529-5535.	3.1	100
128	Enantioselective ester hydrolase from <i>Sphingobacterium</i> sp. 238C5 useful for chiral resolution of $\hat{I}^2$ -phenylalanine and for its $\hat{I}^2$ -peptide synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 138-144.	1.8	7
129	Microbial production of conjugated fatty acids. <i>Lipid Technology</i> , 2009, 21, 177-181.	0.3	24
130	Fatty Acid Desaturation and Elongation Reactions of <i>Trichoderma</i> sp. $\hat{I}^2$ . <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2009, 86, 227-233.	1.9	5
131	Metabolic diversity in biohydrogenation of polyunsaturated fatty acids by lactic acid bacteria involving conjugated fatty acid production. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 87-97.	3.6	60
132	Improved production of various polyunsaturated fatty acids through filamentous fungus <i>Mortierella alpina</i> breeding. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 1-10.	3.6	96
133	Transformation of an oleaginous zygomycete <i>Mortierella alpina</i> 1S-4 with the carboxin resistance gene conferred by mutation of the iron-sulfur subunit of succinate dehydrogenase. <i>Current Genetics</i> , 2009, 55, 349-356.	1.7	27
134	Screening and characterization of a phosphopentomutase useful for enzymatic production of 2-deoxyribonucleoside. <i>New Biotechnology</i> , 2009, 26, 75-82.	4.4	8
135	A novel l-isoleucine hydroxylating enzyme, l-isoleucine dioxygenase from <i>Bacillus thuringiensis</i> , produces (2S,3R,4S)-4-hydroxyisoleucine. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 506-510.	2.1	70
136	Retrobiosynthetic Production of 2-Deoxyribonucleoside from Glucose, Acetaldehyde, and Nucleobase through Multistep Enzymatic Reactions. , 2009, , 269-278.		0
137	Synthesis of 4-Hydroxyisoleucine by the Aldolase-Transaminase Coupling Reaction and Basic Characterization of the Aldolase from <i>Arthrobacter simplex</i> AKU 626. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 1607-1615.	1.3	37
138	A novel strategy for enzymatic synthesis of 4-hydroxyisoleucine: identification of an enzyme possessing HMKP (4-hydroxy-3-methyl-2-keto-pentanoate) aldolase activity. <i>FEMS Microbiology Letters</i> , 2007, 273, 70-77.	1.8	37
139	Efficient Production of 2-Deoxyribose 5-Phosphate from Glucose and Acetaldehyde by Coupling of the Alcoholic Fermentation System of Baker's Yeast and Deoxyriboaldolase-Expressing <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 1371-1378.	1.3	22
140	Screening and Industrial Application of Unique Microbial Reactions Involved in Nucleic Acid and Lipid Metabolisms. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 574-582.	1.3	14
141	One-pot Microbial Synthesis of 2-deoxyribonucleoside from Glucose, Acetaldehyde, and a Nucleobase. <i>Biotechnology Letters</i> , 2006, 28, 877-881.	2.2	19
142	Microbial production of optically active $\hat{I}^2$ -phenylalanine ethyl ester through stereoselective hydrolysis of racemic $\hat{I}^2$ -phenylalanine ethyl ester. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 663-669.	3.6	7
143	Biochemical retrosynthesis of 2-deoxyribonucleosides from glucose, acetaldehyde, and a nucleobase. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 615-621.	3.6	32
144	Microbial Production of Optically Active $\hat{I}^2$ -Phenylalanine through Stereoselective Degradation of Racemic $\hat{I}^2$ -Phenylalanine. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 1941-1946.	1.3	8

#	ARTICLE	IF	CITATIONS
145	Hydroxylation activity of P450 BM-3 mutant F87V towards aromatic compounds and its application to the synthesis of hydroquinone derivatives from phenolic compounds. <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 556-562.	3.6	56
146	Indole Hydroxylation by Bacterial Cytochrome P450 BM-3 and Modulation of Activity by Cumene Hydroperoxide. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 293-300.	1.3	39
147	Production of conjugated fatty acids by lactic acid bacteria. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 355-364.	2.2	235
148	Improvement of arachidonic acid production by mutants with lower n-3 desaturation activity derived from <i>Mortierella alpina</i> 1S-4. <i>Applied Microbiology and Biotechnology</i> , 2004, 66, 243-248.	3.6	35
149	Characterization of alkaliphilic laccase activity in the culture supernatant of <i>Myrothecium verrucaria</i> 24G-4 in comparison with bilirubin oxidase. <i>FEMS Microbiology Letters</i> , 2004, 230, 209-214.	1.8	66
150	Conjugated linoleic acid production from castor oil by <i>Lactobacillus plantarum</i> JCM 1551. <i>Enzyme and Microbial Technology</i> , 2004, 35, 40-45.	3.2	50
151	Two extracellular proteins with alkaline peroxidase activity, a novel cytochrome c and a catalase-peroxidase, from <i>Bacillus</i> sp. No.13. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1699, 65-75.	2.3	4
152	CLA production from ricinoleic acid by lactic acid bacteria. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2003, 80, 889-894.	1.9	43
153	Conjugated $\gamma$ -linolenic acid production from $\gamma$ -linolenic acid by <i>Lactobacillus plantarum</i> AKU 1009a. <i>European Journal of Lipid Science and Technology</i> , 2003, 105, 572-577.	1.5	25
154	Structural Analysis of Conjugated Linoleic Acid Produced by <i>Lactobacillus plantarum</i> , and Factors Affecting Isomer Production. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 179-182.	1.3	48
155	Construction of Deoxyriboaldolase-Overexpressing <i>Escherichia coli</i> and Its Application to 2-Deoxyribose 5-Phosphate Synthesis from Glucose and Acetaldehyde for 2'-Deoxyribonucleoside Production. <i>Applied and Environmental Microbiology</i> , 2003, 69, 3791-3797.	3.1	38
156	Microbial Production of 2-Deoxyribose 5-Phosphate from Acetaldehyde and Triosephosphate for the Synthesis of 2'-Deoxyribonucleosides. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 933-936.	1.3	33
157	Production of Functional Lipids by Microorganisms. <i>Oleoscience</i> , 2003, 3, 129-139,128.	0.0	7
158	Ricinoleic Acid and Castor Oil as Substrates for Conjugated Linoleic Acid Production by Washed Cells of <i>Lactobacillus plantarum</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 2283-2286.	1.3	67
159	Bilirubin Dehydrogenase, an Enzyme in <i>Aspergillus ochraceus</i> B-3 Useful for Diagnostic Measurement of Bilirubin. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 2376-2381.	1.3	0
160	Conjugated linoleic acid production from linoleic acid by lactic acid bacteria. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2002, 79, 159-163.	1.9	155
161	Industrial microbial enzymes: their discovery by screening and use in large-scale production of useful chemicals in Japan. <i>Current Opinion in Biotechnology</i> , 2002, 13, 367-375.	6.6	93
162	Critical Role of the Residue Size at Position 87 in H <sub>2</sub> O <sub>2</sub> -Dependent Substrate Hydroxylation Activity and H <sub>2</sub> O <sub>2</sub> Inactivation of Cytochrome P450BM-3. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 1258-1261.	2.1	76

#	ARTICLE	IF	CITATIONS
163	Novel Amidohydrolytic Reactions in Oxidative Pyrimidine Metabolism: Analysis of the Barbiturase Reaction and Discovery of a Novel Enzyme, Ureidomalonnase. <i>Biochemical and Biophysical Research Communications</i> , 2001, 286, 222-226.	2.1	28
164	Residue size at position 87 of cytochrome P450 BM-3 determines its stereoselectivity in propylbenzene and 3-chlorostyrene oxidation. <i>FEBS Letters</i> , 2001, 508, 249-252.	2.8	76
165	Bioelectrocatalytic reduction of dioxygen to water at neutral pH using bilirubin oxidase as an enzyme and 2,2-azobis (3-ethylbenzothiazolin-6-sulfonate) as an electron transfer mediator. <i>Journal of Electroanalytical Chemistry</i> , 2001, 496, 69-75.	3.8	232
166	Cyclic ureide and imide metabolism in microorganisms producing a d-hydantoinase useful for d-amino acid production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 12, 61-70.	1.8	9
167	Engineering Cytochrome P450 BM-3 for Oxidation of Polycyclic Aromatic Hydrocarbons. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5735-5739.	3.1	151
168	Purification, Characterization, and Gene Cloning of Purine Nucleosidase from <i>Ochrobactrum anthropi</i> . <i>Applied and Environmental Microbiology</i> , 2001, 67, 1783-1787.	3.1	34
169	Conjugated Linoleic Acid Accumulation via 10-Hydroxy-12-Octadecaenoic Acid during Microaerobic Transformation of Linoleic Acid by <i>Lactobacillus acidophilus</i> . <i>Applied and Environmental Microbiology</i> , 2001, 67, 1246-1252.	3.1	184
170	A Novel Amidase (Half-Amidase) for Half-Amide Hydrolysis Involved in the Bacterial Metabolism of Cyclic Imides. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1947-1952.	3.1	14
171	Stereoselective Synthesis Using Hydantoinases and Carbamoylases. , 2000, , 1-21.		1
172	Coordinate induction of peroxidase and H <sub>2</sub> O <sub>2</sub> -forming nucleoside oxidase in <i>Flavobacterium meningosepticum</i> . <i>FEMS Microbiology Letters</i> , 1999, 175, 113-117.	1.8	4
173	Stereoinversion of optically active 3-pentyn-2-ol by <i>Nocardia</i> species. <i>Biotechnology Letters</i> , 1999, 21, 331-335.	2.2	18
174	Title is missing!. <i>Biotechnology Letters</i> , 1999, 21, 711-713.	2.2	5
175	Production of 8,11-cis-eicosadienoic acid by a $\Delta 5$ and $\Delta 12$ desaturase-defective mutant derived from the arachidonic acid-producing fungus <i>Mortierella alpina</i> S-4. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1999, 76, 1269-1274.	1.9	18
176	Novel bacterial peroxidase without catalase activity from <i>Flavobacterium meningosepticum</i> : purification and characterization. <i>BBA - Proteins and Proteomics</i> , 1999, 1435, 117-126.	2.1	18
177	Distribution of cyclic imide-transforming activity in microorganisms. <i>FEMS Microbiology Letters</i> , 1998, 158, 51-55.	1.8	16
178	Production of 8,11,14,17-cis-eicosatetraenoic acid (20:4 $\omega$ -3) by a $\Delta 5$ and $\Delta 12$ desaturase-defective mutant of an arachidonic acid-producing fungus <i>Mortierella alpina</i> S-4. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1998, 75, 1495-1500.	1.9	14
179	Distribution of cyclic imide-transforming activity in microorganisms. <i>FEMS Microbiology Letters</i> , 1998, 158, 51-55.	1.8	1
180	Screening of novel microbial enzymes for the production of biologically and chemically useful compounds. <i>Advances in Biochemical Engineering/Biotechnology</i> , 1997, 58, 45-87.	1.1	35

#	ARTICLE	IF	CITATIONS
181	Diversity and versatility of microbial hydantoin-transforming enzymes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1997, 2, 163-176.	1.8	68
182	Imidase, a Dihydropyrimidinase-Like Enzyme Involved in the Metabolism of Cyclic Imides. <i>FEBS Journal</i> , 1997, 243, 322-327.	0.2	37
183	Purification and Characterization of an ATP-dependent Amidohydrolase, N-methylhydantoin Amidohydrolase, from <i>Pseudomonas putida</i> 77. <i>FEBS Journal</i> , 1995, 229, 284-290.	0.2	37
184	Purification and characterization of dihydroorotase from <i>Pseudomonas putida</i> . <i>Archives of Microbiology</i> , 1995, 164, 353-357.	2.2	17
185	Diversity of Cyclic Ureide Compound-, Dihydropyrimidine-, and Hydantoin-hydrolyzing Enzymes in <i>Blastobacter</i> sp. A17p-4. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995, 59, 1960-1962.	1.3	16
186	Purification and characterization of dihydroorotase from <i>Pseudomonas putida</i> . <i>Archives of Microbiology</i> , 1995, 164, 353-357.	2.2	1
187	beta-Ureidopropionase with N-carbamoyl-alpha-l-amino acid amidohydrolase activity from an aerobic bacterium, <i>Pseudomonas putida</i> IFO 12996. <i>FEBS Journal</i> , 1994, 223, 625-630.	0.2	53
188	Thermostable N-carbamoyl-d-amino acid amidohydrolase: screening, purification and characterization. <i>Journal of Biotechnology</i> , 1994, 38, 11-19.	3.8	79
189	N-Carbamoyl-d-amino acid amidohydrolase from <i>Comamonas</i> sp. E222c Purification and characterization. <i>FEBS Journal</i> , 1993, 212, 685-691.	0.2	62
190	Purification and characterization of a novel enzyme, arylalkyl acylamidase, from <i>Pseudomonas putida</i> Sc2. <i>FEBS Journal</i> , 1992, 209, 375-382.	0.2	17