

Jun Ogawa

List of Publications by Year in descending order

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189
papers

6,051
citations

70961

41
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91712

69
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198
all docs

198
docs citations

198
times ranked

5130
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Polyunsaturated fatty acid saturation by gut lactic acid bacteria affecting host lipid composition. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17808-17813. | 3.3 | 305 |
| 2 | Production of conjugated fatty acids by lactic acid bacteria. Journal of Bioscience and Bioengineering, 2005, 100, 355-364. | 1.1 | 235 |
| 3 | 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. Journal of Electroanalytical Chemistry, 2001, 496, 69-75. | 1.9 | 232 |
| 4 | Gut microbiota confers host resistance to obesity by metabolizing dietary polyunsaturated fatty acids. Nature Communications, 2019, 10, 4007. | 5.8 | 231 |
| 5 | A Gut Microbial Metabolite of Linoleic Acid, 10-Hydroxy-cis-12-octadecenoic Acid, Ameliorates Intestinal Epithelial Barrier Impairment Partially via GPR40-MEK-ERK Pathway. Journal of Biological Chemistry, 2015, 290, 2902-2918. | 1.6 | 189 |
| 6 | Conjugated Linoleic Acid Accumulation via 10-Hydroxy-12-Octadecanoic Acid during Microaerobic Transformation of Linoleic Acid by Lactobacillus acidophilus. Applied and Environmental Microbiology, 2001, 67, 1246-1252. | 1.4 | 184 |
| 7 | Conjugated linoleic acid production from linoleic acid by lactic acid bacteria. JAOCS, Journal of the American Oil Chemists' Society, 2002, 79, 159-163. | 0.8 | 155 |
| 8 | Engineering Cytochrome P450 BM-3 for Oxidation of Polycyclic Aromatic Hydrocarbons. Applied and Environmental Microbiology, 2001, 67, 5735-5739. | 1.4 | 151 |
| 9 | 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. Applied and Environmental Microbiology, 2009, 75, 5529-5535. | 1.4 | 100 |
| 10 | Improved production of various polyunsaturated fatty acids through filamentous fungus <i>Mortierella alpina</i> breeding. Applied Microbiology and Biotechnology, 2009, 84, 1-10. | 1.7 | 96 |
| 11 | Industrial microbial enzymes: their discovery by screening and use in large-scale production of useful chemicals in Japan. Current Opinion in Biotechnology, 2002, 13, 367-375. | 3.3 | 93 |
| 12 | Selection of oleaginous yeasts with high lipid productivity for practical biodiesel production. Bioresource Technology, 2014, 153, 230-235. | 4.8 | 87 |
| 13 | Thermostable N-carbamoyl-d-amino acid amidohydrolase: screening, purification and characterization. Journal of Biotechnology, 1994, 38, 11-19. | 1.9 | 79 |
| 14 | Characterization of <i>Bacillus thuringiensis</i> -Isoleucine Dioxygenase for Production of Useful Amino Acids. Applied and Environmental Microbiology, 2011, 77, 6926-6930. | 1.4 | 78 |
| 15 | Critical Role of the Residue Size at Position 87 in H ₂ O ₂ -Dependent Substrate Hydroxylation Activity and H ₂ O ₂ Inactivation of Cytochrome P450BM-3. Biochemical and Biophysical Research Communications, 2001, 280, 1258-1261. | 1.0 | 76 |
| 16 | Residue size at position 87 of cytochrome P450 BM-3 determines its stereoselectivity in propylbenzene and 3-chlorostyrene oxidation. FEBS Letters, 2001, 508, 249-252. | 1.3 | 76 |
| 17 | A novel unsaturated fatty acid hydratase toward C16 to C22 fatty acids from <i>Lactobacillus acidophilus</i> . Journal of Lipid Research, 2015, 56, 1340-1350. | 2.0 | 74 |
| 18 | Metabolic engineering for the production of polyunsaturated fatty acids by oleaginous fungus <i>Mortierella alpina</i> 1S-4. Journal of Bioscience and Bioengineering, 2013, 116, 417-422. | 1.1 | 73 |

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|----|---|-----|-----------|
| 19 | 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. | 1.0 | 70 |
| 20 | Metabolic engineering of <i>Escherichia coli</i> to produce (2S, 3R, 4S)-4-hydroxyisoleucine. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 719-726. | 1.7 | 70 |
| 21 | 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. | 0.2 | 69 |
| 22 | Diversity and versatility of microbial hydantoin-transforming enzymes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1997, 2, 163-176. | 1.8 | 68 |
| 23 | 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. | 0.6 | 67 |
| 24 | Characterization of the linoleic acid 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. | 1.1 | 67 |
| 25 | Characterization of alkaliphilic laccase activity in the culture supernatant of <i>Myrothecium verrucaria</i> 24C-4 in comparison with bilirubin oxidase. <i>FEMS Microbiology Letters</i> , 2004, 230, 209-214. | 0.7 | 66 |
| 26 | 10-oxo-12(Z)-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. | 0.2 | 65 |
| 27 | 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 |
| 28 | 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. | 4.4 | 62 |
| 29 | <i>Cryptococcus terricola</i> is a promising oleaginous yeast for biodiesel production from starch through consolidated bioprocessing. <i>Scientific Reports</i> , 2014, 4, 4776. | 1.6 | 61 |
| 30 | 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. | 1.3 | 61 |
| 31 | 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. | 1.7 | 60 |
| 32 | 10-oxo-12(Z)-octadecenoic acid, a linoleic acid metabolite produced by gut lactic acid bacteria, potently activates PPAR β and stimulates adipogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2015, 459, 597-603. | 1.0 | 59 |
| 33 | 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. | 1.7 | 56 |
| 34 | 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 |
| 35 | 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. | 1.0 | 52 |
| 36 | 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. | 0.6 | 51 |

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|----|---|-----|-----------|
| 37 | Conjugated linoleic acid production from castor oil by <i>Lactobacillus plantarum</i> JCM 1551. <i>Enzyme and Microbial Technology</i> , 2004, 35, 40-45. | 1.6 | 50 |
| 38 | 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. | 1.7 | 50 |
| 39 | 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. | 0.6 | 48 |
| 40 | 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. | 1.7 | 44 |
| 41 | CLA production from ricinoleic acid by lactic acid bacteria. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2003, 80, 889-894. | 0.8 | 43 |
| 42 | Direct ethanol production from starch using a natural isolate, <i>Scheffersomyces shehatae</i> : Toward consolidated bioprocessing. <i>Scientific Reports</i> , 2015, 5, 9593. | 1.6 | 43 |
| 43 | 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. | 1.3 | 43 |
| 44 | 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. | 1.7 | 42 |
| 45 | 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. | 1.7 | 42 |
| 46 | Eicosapentaenoic acid (EPA) production by an oleaginous fungus <i>Mortierella alpina</i> expressing heterologous the Δ^7 -desaturase gene under ordinary temperature. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 1919-1927. | 1.0 | 42 |
| 47 | A bacterial metabolite ameliorates periodontal pathogen-induced gingival epithelial barrier disruption via GPR40 signaling. <i>Scientific Reports</i> , 2018, 8, 9008. | 1.6 | 42 |
| 48 | Efficient enzymatic production of hydroxy fatty acids by linoleic acid Δ^9 hydratase from <i>Lactobacillus plantarum</i> AKU 1009a. <i>Journal of Applied Microbiology</i> , 2016, 120, 1282-1288. | 1.4 | 41 |
| 49 | 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. | 0.6 | 39 |
| 50 | 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. | 1.7 | 39 |
| 51 | Construction of Deoxyribaldolase-Overexpressing <i>Escherichia coli</i> and Its Application to 2-Deoxyribose 5-Phosphate Synthesis from Glucose and Acetaldehyde for Δ^2 -Deoxyribonucleoside Production. <i>Applied and Environmental Microbiology</i> , 2003, 69, 3791-3797. | 1.4 | 38 |
| 52 | Multienzymatic Synthesis of Optically Pure β -Hydroxy α -Amino Acids. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 767-774. | 2.1 | 38 |
| 53 | A possible beneficial effect of <i>Bacteroides</i> on faecal lipopolysaccharide activity and cardiovascular diseases. <i>Scientific Reports</i> , 2020, 10, 13009. | 1.6 | 38 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Imidase, a Dihydropyrimidinase-Like Enzyme Involved in the Metabolism of Cyclic Imides. <i>FEBS Journal</i> , 1997, 243, 322-327. | 0.2 | 37 |
| 56 | 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. | 0.6 | 37 |
| 57 | 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. | 0.7 | 37 |
| 58 | 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. | 1.5 | 36 |
| 59 | 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. | 0.6 | 35 |
| 60 | 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. | 1.7 | 35 |
| 61 | Purification, Characterization, and Gene Cloning of Purine Nucleosidase from <i>Ochrobactrum anthropi</i> . <i>Applied and Environmental Microbiology</i> , 2001, 67, 1783-1787. | 1.4 | 34 |
| 62 | 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. | 0.6 | 33 |
| 63 | Novel Enzyme Family Found in Filamentous Fungi Catalyzing <i>trans</i> -4-Hydroxylation of <i>trans</i> -Pipelicolic Acid. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2070-2077. | 1.4 | 33 |
| 64 | Biochemical retrosynthesis of 2-deoxyribonucleosides from glucose, acetaldehyde, and a nucleobase. <i>Applied Microbiology and Biotechnology</i> , 2006, 71, 615-621. | 1.7 | 32 |
| 65 | Gut Microbial Fatty Acid Metabolites Reduce Triacylglycerol Levels in Hepatocytes. <i>Lipids</i> , 2015, 50, 1093-1102. | 0.7 | 32 |
| 66 | 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. | 1.4 | 32 |
| 67 | Biohydrogenation of C20 polyunsaturated fatty acids by anaerobic bacteria. <i>Journal of Lipid Research</i> , 2014, 55, 1855-1863. | 2.0 | 31 |
| 68 | A novel family of bacterial dioxygenases that catalyse the hydroxylation of free l-amino acids. <i>FEMS Microbiology Letters</i> , 2012, 331, 97-104. | 0.7 | 30 |
| 69 | 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. | 1.1 | 30 |
| 70 | 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. | 0.6 | 29 |
| 71 | 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. | 1.0 | 28 |
| 72 | 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. | 0.8 | 27 |

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|----|---|-----|-----------|
| 73 | Trehalose accumulation enhances tolerance of <i>Saccharomyces cerevisiae</i> to acetic acid. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 172-175. | 1.1 | 27 |
| 74 | Lactic acid bacteria-containing chocolate as a practical probiotic product with increased acid tolerance. <i>Biocatalysis and Agricultural Biotechnology</i> , 2015, 4, 773-777. | 1.5 | 27 |
| 75 | 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. | 4.8 | 26 |
| 76 | Conjugated γ -linolenic acid production from γ -linolenic acid by <i>Lactobacillus plantarum</i> AKU 1009a. <i>European Journal of Lipid Science and Technology</i> , 2003, 105, 572-577. | 1.0 | 25 |
| 77 | The Case for an Early Biological Origin of DNA. <i>Journal of Molecular Evolution</i> , 2014, 79, 204-212. | 0.8 | 25 |
| 78 | Microbial production of conjugated fatty acids. <i>Lipid Technology</i> , 2009, 21, 177-181. | 0.3 | 24 |
| 79 | Hydroxy fatty acid production by <i>Pediococcus</i> sp.. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 386-393. | 1.0 | 24 |
| 80 | Rational Engineering of Hydratase from <i>Lactobacillus acidophilus</i> Reveals Critical Residues Directing Substrate Specificity and Regioselectivity. <i>ChemBioChem</i> , 2020, 21, 550-563. | 1.3 | 23 |
| 81 | 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. | 0.6 | 22 |
| 82 | 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. | 1.1 | 22 |
| 83 | Microbial production of dihomogamma-linolenic acid by Δ 5-desaturase gene-disruptants of <i>Mortierella alpina</i> 1S-4. <i>Journal of Bioscience and Bioengineering</i> , 2016, 122, 22-26. | 1.1 | 21 |
| 84 | 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. | 1.5 | 20 |
| 85 | One-pot Microbial Synthesis of 2-deoxyribonucleoside from Glucose, Acetaldehyde, and a Nucleobase. <i>Biotechnology Letters</i> , 2006, 28, 877-881. | 1.1 | 19 |
| 86 | Crystal Structure of a Novel N-Substituted L-Amino Acid Dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>PLoS ONE</i> , 2013, 8, e63996. | 1.1 | 19 |
| 87 | Stereoinversion of optically active 3-pentyn-2-ol by <i>Nocardia</i> species. <i>Biotechnology Letters</i> , 1999, 21, 331-335. | 1.1 | 18 |
| 88 | Production of 8,11-cis-eicosadienoic acid by a Δ 5 and Δ 12 desaturase-defective mutant derived from the arachidonic acid-producing fungus <i>Mortierella alpina</i> 1S-4. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 1999, 76, 1269-1274. | 0.8 | 18 |
| 89 | 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 |
| 90 | Enzymatic synthesis of chiral amino acid sulfoxides by Fe(II)-ketoglutarate-dependent dioxygenase. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 990-994. | 1.8 | 18 |

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|-----|--|-----|-----------|
| 91 | Lipid production via simultaneous conversion of glucose and xylose by a novel yeast, <i>Cystobasidium iriomotense</i> . PLoS ONE, 2018, 13, e0202164. | 1.1 | 18 |
| 92 | A bacterial metabolite induces Nrf2-mediated anti-oxidative responses in gingival epithelial cells by activating the MAPK signaling pathway. Archives of Oral Biology, 2020, 110, 104602. | 0.8 | 18 |
| 93 | Purification and characterization of a novel enzyme, arylalkyl acylamidase, from <i>Pseudomonas putida</i> Sc2. FEBS Journal, 1992, 209, 375-382. | 0.2 | 17 |
| 94 | Purification and characterization of dihydroorotase from <i>Pseudomonas putida</i> . Archives of Microbiology, 1995, 164, 353-357. | 1.0 | 17 |
| 95 | Diversity of Cyclic Ureide Compound-, Dihydropyrimidine-, and Hydantoin-hydrolyzing Enzymes in <i>Blastobacter</i> sp. A17p-4. Bioscience, Biotechnology and Biochemistry, 1995, 59, 1960-1962. | 0.6 | 16 |
| 96 | Distribution of cyclic imide-transforming activity in microorganisms. FEMS Microbiology Letters, 1998, 158, 51-55. | 0.7 | 16 |
| 97 | Omega-3 eicosatetraenoic acid production by molecular breeding of the mutant strain S14 derived from <i>Mortierella alpina</i> 1S-4. Journal of Bioscience and Bioengineering, 2015, 120, 299-304. | 1.1 | 16 |
| 98 | Intestinal microbe-dependent ω 3 lipid metabolite Δ^5 -KetoA prevents inflammatory diseases in mice and cynomolgus macaques. Mucosal Immunology, 2022, 15, 289-300. | 2.7 | 16 |
| 99 | Structural optimization of SadA, an Fe(II)- and Δ^5 -ketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-L-threo-3,4-dimethoxyphenylserine. Biochemical and Biophysical Research Communications, 2014, 450, 1458-1461. | 1.0 | 15 |
| 100 | Isolation and characterization of psychrotolerant endospore-forming <i>Sporosarcina</i> species associated with minced fish meat (surimi). International Journal of Food Microbiology, 2015, 199, 15-22. | 2.1 | 15 |
| 101 | Production of ricinoleic acid-containing monoester diacylglycerides in an oleaginous diatom, <i>Chaetoceros gracilis</i> . Scientific Reports, 2016, 6, 36809. | 1.6 | 15 |
| 102 | Novel Mechanism of Fatty Acid Sensing in Enteroendocrine Cells: Specific Structures in Oxoleic Fatty Acids Produced by Gut Bacteria Are Responsible for CCK Secretion in STC1 Cells via GPR40. Molecular Nutrition and Food Research, 2018, 62, e1800146. | 1.5 | 15 |
| 103 | Antimicrobial function of the polyunsaturated fatty acid KetoC in an experimental model of periodontitis. Journal of Periodontology, 2019, 90, 1470-1480. | 1.7 | 15 |
| 104 | Production of 8,11,14,17-cis-eicosatetraenoic acid (20:4 ω -3) by a Δ^5 and Δ^{12} desaturase-defective mutant of an arachidonic acid-producing fungus <i>Mortierella alpina</i> 1S-4. JAOCS, Journal of the American Oil Chemists' Society, 1998, 75, 1495-1500. | 0.8 | 14 |
| 105 | A Novel Amidase (Half-Amidase) for Half-Amide Hydrolysis Involved in the Bacterial Metabolism of Cyclic Imides. Applied and Environmental Microbiology, 2000, 66, 1947-1952. | 1.4 | 14 |
| 106 | Screening and Industrial Application of Unique Microbial Reactions Involved in Nucleic Acid and Lipid Metabolisms. Bioscience, Biotechnology and Biochemistry, 2006, 70, 574-582. | 0.6 | 14 |
| 107 | Two laccase isoenzymes and a peroxidase of a commercial laccase-producing basidiomycete, <i>Trametes</i> sp. Ha1. New Biotechnology, 2010, 27, 317-323. | 2.4 | 14 |
| 108 | Mechanistic Insights into Indigo Reduction in Indigo Fermentation: A Voltammetric Study. Electrochemistry, 2021, 89, 25-30. | 0.6 | 14 |

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| 109 | 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. | 0.8 | 13 |
| 110 | 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. | 1.9 | 13 |
| 111 | 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 |
| 112 | Construction of microbial platform for an energy-requiring bioprocess: practical 2â€²-deoxyribonucleoside production involving a Câ”C coupling reaction with high energy substrates. <i>Microbial Cell Factories</i> , 2012, 11, 82. | 1.9 | 11 |
| 113 | Isolation and Characterization of a Docosahexaenoic Acidâ€Phospholipids Producing Microorganism <i>Cryptocodinium</i> sp. D31. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 1837-1844. | 0.8 | 11 |
| 114 | A novel <i>isoleucine</i> 4â€²-dioxygenase and <i>isoleucine</i> dihydroxylation cascade in <i>Pantoea ananatis</i> . <i>MicrobiologyOpen</i> , 2013, 2, 471-481. | 1.2 | 11 |
| 115 | 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 |
| 116 | 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. | 0.8 | 11 |
| 117 | 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. | 1.6 | 11 |
| 118 | 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. | 1.1 | 11 |
| 119 | Medium-chain triglycerides inhibit long-chain triglyceride-induced GIP secretion through GPR120-dependent inhibition of CCK. <i>iScience</i> , 2021, 24, 102963. | 1.9 | 11 |
| 120 | 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. | 1.0 | 10 |
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