

Makoto Hibi

List of Publications by Year in descending order

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45
papers

927
citations

430843

18
h-index

454934

30
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47
all docs

47
docs citations

47
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of a direct electron transfer-type fructose/dioxygen biofuel cell with a substrate-modified biocathode. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4823.	2.8	99
2	Characterization of <i>Bacillus thuringiensis</i> -Isoleucine Dioxygenase for Production of Useful Amino Acids. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6926-6930.	3.1	78
3	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
4	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
5	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
6	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
7	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
8	Multi-Enzymatic Synthesis of Optically Pure β -Hydroxy α -Amino Acids. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 767-774.	4.3	38
9	Functional coupling between vanillate-O-demethylase and formaldehyde detoxification pathway. <i>FEMS Microbiology Letters</i> , 2005, 253, 237-242.	1.8	35
10	Novel Enzyme Family Found in Filamentous Fungi Catalyzing <i>trans</i> -4-Hydroxylation of <i>trans</i> -Pipelic Acid. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2070-2077.	3.1	33
11	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
12	Improvement of NADPH-Dependent Bioconversion by Transcriptome-Based Molecular Breeding. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7657-7663.	3.1	29
13	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
14	A novel Fe(II)/ α -ketoglutarate-dependent dioxygenase from <i>Burkholderia ambifaria</i> has β -hydroxylating activity of N-succinyl l-leucine. <i>Letters in Applied Microbiology</i> , 2012, 55, 414-419.	2.2	26
15	<i>Dictyostelium Discoideum</i> Talin A is Crucial for Myosin II-Independent and Adhesion-Dependent Cytokinesis. <i>Journal of Muscle Research and Cell Motility</i> , 2004, 25, 127-140.	2.0	25
16	The Case for an Early Biological Origin of DNA. <i>Journal of Molecular Evolution</i> , 2014, 79, 204-212.	1.8	25
17	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
18	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

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19	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
20	Structural optimization of SadA, an Fe(II)- and α -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
21	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
22	Advances in Cytokinesis Research. Genetic Approaches to Dissect the Mechanisms of Two Distinct Pathways of Cell Cycle-coupled Cytokinesis in <i>Dictyostelium</i> .. <i>Cell Structure and Function</i> , 2001, 26, 585-591.	1.1	12
23	Construction of microbial platform for an energy-requiring bioprocess: practical $^{2\alpha}$ -deoxyribonucleoside production involving a $C\alpha^{13}C$ coupling reaction with high energy substrates. <i>Microbial Cell Factories</i> , 2012, 11, 82.	4.0	11
24	A novel α -isoleucine α -ketoglutarate-dependent dioxygenase and α -isoleucine dihydroxylation cascade in <i>Pantoea ananatis</i> . <i>MicrobiologyOpen</i> , 2013, 2, 471-481.	3.0	11
25	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
26	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
27	Engineering of the cytochrome P450 monooxygenase system for benzyl maltol hydroxylation. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6651-6658.	3.6	10
28	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
29	New nucleoside hydrolase with transribosylation activity from <i>Agromyces</i> sp. MM-1 and its application for enzymatic synthesis of 2α -O-methylribonucleosides. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 38-45.	2.2	6
30	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
31	Enzymatic synthesis of 2α -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
32	β -Aryl- β -amino acid aminotransferase from <i>Variovorax</i> sp. JH2 is useful for enantioselective β -phenylalanine production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2012, 1, 253-258.	3.1	4
33	A novel nucleoside hydrolase from <i>Lactobacillus buchneri</i> LBK78 catalyzing hydrolysis of 2α -O-methylribonucleosides. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 1568-1576.	1.3	4
34	Breeding of a Cyclic Imide-Assimilating Bacterium, <i>Pseudomonas putidas</i> 52, for High Efficiency Production of Pyruvate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1650-1654.	1.3	3
35	Characterization and application of a L-specific amino acid oxidase from <i>Rhodococcus</i> sp. AIU LAB-3. <i>Journal of Bioscience and Bioengineering</i> , 2013, 115, 613-617.	2.2	3
36	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

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37	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
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	Expression, purification, crystallization and preliminary X-ray analysis of a novel N-substituted branched-chain L-amino-acid dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1067-1069.	0.7	2
40	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
41	S-Tryptophan-starved cultivation enhances S-allyl-L-cysteine synthesis in various food-related microorganisms. <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 792-799.	1.3	2
42	Expression, purification, crystallization and preliminary X-ray analysis of 4-hydroxy-3-methyl-2-keto-pentanoate aldolase (asHPAL) from <i>Arthrobacter simplex</i> strain AKU 626. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 958-961.	0.7	1
43	Identification of tryptophanase from <i>Escherichia coli</i> for the synthesis of S-allyl-L-cysteine and related S-substituted cysteine derivatives. <i>Journal of Bioscience and Bioengineering</i> , 2022, 134, 182-186.	2.2	1
44	Microbial Cyclic Imide Metabolism and Its Biotechnological Application. , 2019, , 65-90.		0
45	Application of Enzymatic Reactions Involving Electron Transfer and Energy Supply for the Production of Useful Chemicals. , 2020, , 101-119.		0