Eiji Sakuradani

List of Publications by Year
in descending order

51	1,652	279798	289244
papers	citations	23 h-index	40 g-index

53	53	53	1173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microbial production of hydroxy fatty acids utilizing crude glycerol. Biocatalysis and Agricultural Biotechnology, 2022, 39, 102286.	3.1	1
2	Recent trends in the field of lipid engineering. Journal of Bioscience and Bioengineering, 2022, 133, 405-413.	2.2	7
3	Isolation and characterization of indigo-reducing bacteria and analysis of microbiota from indigo fermentation suspensions. Bioscience, Biotechnology and Biochemistry, 2022, 86, 273-281.	1.3	4
4	Quantification of leuco-indigo in indigo-dye-fermenting suspension by normal pulse voltammetry. Journal of Bioscience and Bioengineering, 2022, 134, 84-88.	2.2	3
5	Mechanistic Insights into Indigo Reduction in Indigo Fermentation: A Voltammetric Study. Electrochemistry, 2021, 89, 25-30.	1.4	14
6	Characterization of Ï‰3 fatty acid desaturases from oomycetes and their application toward eicosapentaenoic acid production in Mortierella alpina. Bioscience, Biotechnology and Biochemistry, 2021, 85, 1252-1265.	1.3	2
7	Voltammetric in-situ monitoring of leuco-indigo in indigo-fermenting suspensions. Journal of Bioscience and Bioengineering, 2021, 131, 565-571.	2.2	3
8	Indigo-Mediated Semi-Microbial Biofuel Cell Using an Indigo-Dye Fermenting Suspension. Catalysts, 2021, 11, 1080.	3.5	1
9	Neurite Outgrowth-Promoting Activity of Compounds in PC12 Cells from Sunflower Seeds. Molecules, 2020, 25, 4748.	3.8	7
10	Arachidonic acid production by the oleaginous fungus Mortierella alpina 1S-4: A review. Journal of Advanced Research, 2018, 11, 15-22.	9.5	62
11	Metabolic engineering of oleaginous fungus Mortierella alpina for high production of oleic and linoleic acids. Bioresource Technology, 2017, 245, 1610-1615.	9.6	26
12	Microbial production of dihomo-Î³-linolenic acid by Î”5-desaturase gene-disruptants of Mortierella alpina 1S-4. Journal of Bioscience and Bioengineering, 2016, 122, 22-26.	2.2	21
13	Gene targeting in the oil-producing fungus Mortierella alpina 1S-4 and construction of a strain producing a valuable polyunsaturated fatty acid. Current Genetics, 2015, 61, 579-589.	1.7	11
14	Omega-3 eicosatetraenoic acid production by molecular breeding of the mutant strain S14 derived from Mortierella alpina 1S-4. Journal of Bioscience and Bioengineering, 2015, 120, 299-304.	2.2	16
15	Eicosapentaenoic acid (EPA) production by an oleaginous fungus Mortierella alpina expressing heterologous the Î”17â€desaturase gene under ordinary temperature. European Journal of Lipid Science and Technology, 2015, 117, 1919-1927.	1.5	42
16	Disruption of lig4 improves gene targeting efficiency in the oleaginous fungus Mortierella alpina 1S-4. Journal of Biotechnology, 2015, 208, 63-69.	3.8	13
17	Selection and characterization of promoters based on genomic approach for the molecular breeding of oleaginous fungus Mortierella alpina 1S-4. Current Genetics, 2014, 60, 183-191.	1.7	13
18	Selection of oleaginous yeasts with high lipid productivity for practical biodiesel production. Bioresource Technology, 2014, 153, 230-235.	9.6	87

#	Article	IF	Citations
19	Achlorophyllous alga Prototheca zopfii oxidizes n-alkanes with different carbon-chain lengths through a unique subterminal oxidation pathway. Journal of Bioscience and Bioengineering, 2014, 117, 275-277.	2.2	0
20	Cryptococcus terricola is a promising oleaginous yeast for biodiesel production from starch through consolidated bioprocessing. Scientific Reports, 2014, 4, 4776.	3.3	61
21	Metabolic engineering for the production of polyunsaturated fatty acids by oleaginous fungus Mortierella alpina 1S-4. Journal of Bioscience and Bioengineering, 2013, 116, 417-422.	2.2	73
22	Isolation and Characterization of a Docosahexaenoic Acidâ€Phospholipids Producing Microorganism Crypthecodinium sp. D31. JAOCS, Journal of the American Oil Chemists' Society, 2013, 90, 1837-1844.	1.9	11
23	Subterminal oxidation of n-alkanes in achlorophyllous alga Prototheca sp.. Journal of Bioscience and Bioengineering, 2013, 116, 472-474.	2.2	2
24	Characterization of a trifunctional fatty acid desaturase from oleaginous filamentous fungus Mortierella alpina 1S-4 using a yeast expression system. Journal of Bioscience and Bioengineering, 2013, 116, 672-676.	2.2	30
25	Polyunsaturated fatty acids production and transformation by Mortierella alpina and anaerobic bacteria. European Journal of Lipid Science and Technology, 2012, 114, 1107-1113.	1.5	10
26	Production of Microbial Lipids Containing Arachidonic Acid and Its Related Polyunsaturated Fatty Acids. Oleoscience, 2012, 12, 263-272.	0.0	1
27	Advances in the Production of Various Polyunsaturated Fatty Acids through Oleaginous FungusMortierella alpinaBreeding. Bioscience, Biotechnology and Biochemistry, 2010, 74, 908-917.	1.3	52
28	Establishment of Agrobacterium tumefaciens -Mediated Transformation of an Oleaginous Fungus, Mortierella alpina 1S-4, and Its Application for Eicosapentaenoic Acid Producer Breeding. Applied and Environmental Microbiology, 2009, 75, 5529-5535.	3.1	100
29	Identification of mutation sites on ï‰3 desaturase genes from Mortierella alpina 1S-4 mutants. Journal of Bioscience and Bioengineering, 2009, 107, 7-9.	2.2	8
30	Identification of mutation sites on Î”12 desaturase genes from Mortierella alpina 1S-4 mutants. Journal of Bioscience and Bioengineering, 2009, 107, 99-101.	2.2	14
31	Fatty Acid Desaturation and Elongation Reactions of Trichoderma sp. 1â€ŌHâ€2â€3. JAOCS, Journal of the American Oil Chemists' Society, 2009, 86, 227-233.	1.9	5
32	Identification of a novel fatty acid elongase with a wide substrate specificity from arachidonic acid-producing fungus Mortierella alpina 1S-4. Applied Microbiology and Biotechnology, 2009, 84, 709-716.	3.6	31
33	Improved production of various polyunsaturated fatty acids through filamentous fungus Mortierella alpina breeding. Applied Microbiology and Biotechnology, 2009, 84, 1-10.	3.6	96
34	Functional analysis of a fatty acid elongase from arachidonic acid-producing Mortierella alpina 1S-4. Applied Microbiology and Biotechnology, 2008, 81, 497-503.	3.6	18
35	Identification of a novel bifunctional Î”12/Î”15 fatty acid desaturase from a basidiomycete,Coprinus cinereusTD#822-2. FEBS Letters, 2007, 581, 315-319.	2.8	33
36	Functional characterization of Î”9 and ï‰9 desaturase genes in Mortierella alpina 1S-4 and its derivative mutants. Applied Microbiology and Biotechnology, 2006, 70, 711-719.	3.6	31

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37	A novel fungal ?3-desaturase with wide substrate specificity from arachidonic acid-producing Mortierella alpina 1S-4. Applied Microbiology and Biotechnology, 2005, 66, 648-654.	3.6	86
38	Molecular evidence that the rate-limiting step for the biosynthesis of arachidonic acid in Mortierella alpina is at the level of an elongase. Lipids, 2005, 40, 25-30.	1.7	39
39	Identification of Mutation Sites on Î”6 Desaturase Genes fromMortierella alpina1S-4 Mutants. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1021-1024.	1.3	11
40	Improvement of the Fatty Acid Composition of an Oil-Producing Filamentous Fungus, Mortierella alpina 1S-4, through RNA Interference with Î”12-Desaturase Gene Expression. Applied and Environmental Microbiology, 2005, 71, 5124-5128.	3.1	48
41	Improvement of arachidonic acid production by mutants with lower n-3 desaturation activity derived from Mortierella alpina 1S-4. Applied Microbiology and Biotechnology, 2004, 66, 243-248.	3.6	35
42	Gene Cloning and Functional Analysis of a SecondÎ”6-Fatty Acid Desaturase from an Arachidonic Acid-producingMortierellaFungus. Bioscience, Biotechnology and Biochemistry, 2003, 67, 704-711.	1.3	52
43	Isolation and characterization of a Î”-desaturation-defective mutant of an arachidonic acid-producing fungus,Mortierella alpina1S-4. JAOCS, Journal of the American Oil Chemists' Society, 2002, 79, 1021-1026.	1.9	16
44	Production of 8,11-cis-eicosadienoic acid by a Î”5 and Î”12 desaturase-defective mutant derived from the arachidonic acid-producing fungusMortierella alpina1S-4. JAOCS, Journal of the American Oil Chemists' Society, 1999, 76, 1269-1274.	1.9	18
45	Î”⁹â€Fatty acid desaturase from arachidonic acidâ€producing fungus. FEBS Journal, 1999, 260, 208-216.	0.2	99
46	Identification of Î”12-fatty acid desaturase from arachidonic acid-producingMortierellafungus by heterologous expression in the yeastSaccharomyces cerevisiaeand the fungusAspergillus oryzae. FEBS Journal, 1999, 261, 812-820.	0.2	112
47	Î”6-Fatty acid desaturase from an arachidonic acid-producing Mortierella fungus. Gene, 1999, 238, 445-453.	2.2	102
48	Production of 8,11,14,17-cis-eicosatetraenoic acid (20:4ï‰-3) by a Î”5 and Î”12 desaturase-defective mutant of an arachidonic acid-producing fungusMortierella alpina1S-4. JAOCS, Journal of the American Oil Chemists' Society, 1998, 75, 1495-1500.	1.9	14
49	Production of 8,11,14,17-cis-eicosatetraenoic acid by Î”5 desaturase-defective mutants of an arachidonic acid-producing fungus,Mortierella alpina. JAOCS, Journal of the American Oil Chemists' Society, 1997, 74, 455-459.	1.9	26
50	Isolation and characterization of an ?3-desaturation-defective mutant of an arachidonic acid-producing fungus, Mortierella alpina 1S-4. Archives of Microbiology, 1994, 161, 316-319.	2.2	25
51	A Novel Î”5-Desaturase-Defective Mutant of Mortierella alpina 1S-4 and Its Dihomo-Î³-Linolenic Acid Productivity. Applied and Environmental Microbiology, 1993, 59, 4300-4304.	3.1	59