Tokuma Fukuoka

List of Publications by Year
in descending order

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94	3,643	101543	149698
papers	citations	36 h-index	56 g-index

97	97	97	1959
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-assembling properties of glycolipid biosurfactants and their potential applications. Current Opinion in Colloid and Interface Science, 2009, 14, 315-328.	7.4	246
2	Discovery of Pseudozyma rugulosa NBRC 10877 as a novel producer of the glycolipid biosurfactants, mannosylerythritol lipids, based on rDNA sequence. Applied Microbiology and Biotechnology, 2006, 73, 305-313.	3.6	115
3	Characterization of the genusPseudozymaby the formation of glycolipid biosurfactants, mannosylerythritol lipids. FEMS Yeast Research, 2007, 7, 286-292.	2.3	115
4	Microbial Production of Glyceric Acid, an Organic Acid That Can Be Mass Produced from Glycerol. Applied and Environmental Microbiology, 2009, 75, 7760-7766.	3.1	108
5	Glycolipid Biosurfactants, Mannosylerythritol Lipids, Show Antioxidant and Protective Effects against H2O2-Induced Oxidative Stress in Cultured Human Skin Fibroblasts. Journal of Oleo Science, 2012, 61, 457-464.	1.4	102
6	Production of mannosylerythritol lipids and their application in cosmetics. Applied Microbiology and Biotechnology, 2013, 97, 4691-4700.	3.6	99
7	Production of different types of mannosylerythritol lipids as biosurfactants by the newly isolated yeast strains belonging to the genus Pseudozyma. Applied Microbiology and Biotechnology, 2007, 75, 521-531.	3.6	97
8	Microbial conversion of glycerol into glycolipid biosurfactants, mannosylerythritol lipids, by a basidiomycete yeast, Pseudozyma antarctica JCM 10317T. Journal of Bioscience and Bioengineering, 2007, 104, 78-81.	2.2	93
9	Structural characterization and surface-active properties of a new glycolipid biosurfactant, mono-acylated mannosylerythritol lipid, produced from glucose by Pseudozyma antarctica. Applied Microbiology and Biotechnology, 2007, 76, 801-810.	3.6	88
10	A basidiomycetous yeast, Pseudozyma tsukubaensis, efficiently produces a novel glycolipid biosurfactant. The identification of a new diastereomer of mannosylerythritol lipid-B. Carbohydrate Research, 2008, 343, 555-560.	2.3	86
11	Mannosylerythritol Lipids: Production and Applications. Journal of Oleo Science, 2015, 64, 133-141.	1.4	81
12	Physiological differences in the formation of the glycolipid biosurfactants, mannosylerythritol lipids, between Pseudozyma antarctica and Pseudozyma aphidis. Applied Microbiology and Biotechnology, 2007, 74, 307-315.	3.6	71
13	Production of glycolipid biosurfactants, mannosylerythritol lipids, by Pseudozyma siamensis CBS 9960 and their interfacial properties. Journal of Bioscience and Bioengineering, 2008, 105, 493-502.	2.2	70
14	Biotechnological production of d-glyceric acid and its application. Applied Microbiology and Biotechnology, 2009, 84, 445-452.	3.6	70
15	Enzymatic Polymerization of Tyrosine Derivatives. Peroxidase- and Protease-Catalyzed Synthesis of Poly(tyrosine)s with Different Structures. Biomacromolecules, 2002, 3, 768-774.	5.4	66
16	Efficient production of mannosylerythritol lipids with high hydrophilicity by Pseudozyma hubeiensis KM-59. Applied Microbiology and Biotechnology, 2008, 78, 37-46.	3.6	65
17	Production of glycolipid biosurfactants by basidiomycetous yeasts. Biotechnology and Applied Biochemistry, 2009, 53, 39.	3.1	65
18	The Moisturizing Effects of Glycolipid Biosurfactants, Mannosylerythritol Lipids, on Human Skin. Journal of Oleo Science, 2012, 61, 407-412.	1.4	65

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19	Characterization of new glycolipid biosurfactants, tri-acylated mannosylerythritol lipids, produced by Pseudozyma yeasts. Biotechnology Letters, 2007, 29, 1111-1118.	2.2	62
20	Production of a novel glycolipid biosurfactant, mannosylmannitol lipid, by Pseudozyma parantarctica and its interfacial properties. Applied Microbiology and Biotechnology, 2009, 83, 1017-1025.	3.6	62
21	Protease-Catalyzed Regioselective Polymerization and Copolymerization of Glutamic Acid Diethyl Ester. Biomacromolecules, 2002, 3, 318-323.	5.4	60
22	A yeast glycolipid biosurfactant, mannosylerythritol lipid, shows high binding affinity towards lectins on a self-assembled monolayer system. Biotechnology Letters, 2007, 29, 473-480.	2.2	60
23	Aqueous-phase behavior and vesicle formation of natural glycolipid biosurfactant, mannosylerythritol lipid-B. Colloids and Surfaces B: Biointerfaces, 2008, 65, 106-112.	5.0	60
24	Biotransformation of glycerol to d-glyceric acid by Acetobacter tropicalis. Applied Microbiology and Biotechnology, 2009, 81, 1033-1039.	3.6	56
25	Kinetic studies on the interactions between glycolipid biosurfactant assembled monolayers and various classes of immunoglobulins using surface plasmon resonance. Colloids and Surfaces B: Biointerfaces, 2007, 58, 165-171.	5.0	54
26	Isolation of Pseudozyma churashimaensis sp. nov., a novel ustilaginomycetous yeast species as a producer of glycolipid biosurfactants, mannosylerythritol lipids. Journal of Bioscience and Bioengineering, 2011, 112, 137-144.	2.2	51
27	Production of Glyceric Acid byGluconobactersp. NBRC3259 Using Raw Glycerol. Bioscience, Biotechnology and Biochemistry, 2009, 73, 1799-1805.	1.3	49
28	Isolation of basidiomycetous yeast Pseudozyma tsukubaensis and production of glycolipid biosurfactant, a diastereomer type of mannosylerythritol lipid-B. Applied Microbiology and Biotechnology, 2010, 88, 679-688.	3.6	49
29	Yeast extract stimulates production of glycolipid biosurfactants, mannosylerythritol lipids, by Pseudozyma hubeiensis SY62. Journal of Bioscience and Bioengineering, 2011, 111, 702-705.	2.2	49
30	Production of Glycolipid Biosurfactants, Cellobiose Lipids, byCryptococcus humicolaJCM 1461 and Their Interfacial Properties. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1597-1599.	1.3	44
31	Production and Characterization of a Glycolipid Biosurfactant, Mannosylerythritol Lipid B, from Sugarcane Juice byUstilago scitamineaNBRC 32730. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1371-1376.	1.3	42
32	Enzymatic synthesis of a novel glycolipid biosurfactant, mannosylerythritol lipid-D and its aqueous phase behavior. Carbohydrate Research, 2011, 346, 266-271.	2.3	42
33	Formation of the two novel glycolipid biosurfactants, mannosylribitol lipid and mannosylarabitol lipid, by Pseudozyma parantarctica JCM 11752T. Applied Microbiology and Biotechnology, 2012, 96, 931-938.	3.6	42
34	Efficient Production of Acid-Form Sophorolipids from Waste Glycerol and Fatty Acid Methyl Esters by <i>Candida floricola</i>. Journal of Oleo Science, 2018, 67, 489-496.	1.4	42
35	Peroxidase-Catalyzed Oxidative Polymerization of 4,4â€˜-Dihydroxydiphenyl Ether. Formation of Î±,Ï‰-Hydroxyoligo(1,4-phenylene oxide) through an Unusual Reaction Pathway. Macromolecules, 2000, 33, 9152-9155.	4.8	40
36	Accumulation of cellobiose lipids under nitrogen-limiting conditions by two ustilaginomycetous yeasts,Pseudozyma aphidisandPseudozyma hubeiensis. FEMS Yeast Research, 2013, 13, 44-49.	2.3	38

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37	Phase behavior of ternary mannosylerythritol lipid/water/oil systems. Colloids and Surfaces B: Biointerfaces, 2009, 68, 207-212.	5.0	37
38	Production of Glycolipid Biosurfactants, Mannosylerythritol Lipids, by a Smut Fungus,Ustilago scitamineaNBRC 32730. Bioscience, Biotechnology and Biochemistry, 2009, 73, 788-792.	1.3	37
39	New Positive-Type Photoresists Based on Enzymatically Synthesized Polyphenols. Macromolecular Rapid Communications, 2004, 25, 441-444.	3.9	35
40	Xylose induces the phyllosphere yeast Pseudozyma antarctica to produce a cutinase-like enzyme which efficiently degrades biodegradable plastics. Journal of Bioscience and Bioengineering, 2014, 117, 325-329.	2.2	35
41	A basidiomycetous yeast, Pseudozyma crassa, produces novel diastereomers of conventional mannosylerythritol lipids as glycolipid biosurfactants. Carbohydrate Research, 2008, 343, 2947-2955.	2.3	34
42	Enzymatic degradation of polyester films by a cutinase-like enzyme from Pseudozyma antarctica: surface plasmon resonance and atomic force microscopy study. Applied Microbiology and Biotechnology, 2013, 97, 8591-8598.	3.6	33
43	Degradation profiles of biodegradable plastic films by biodegradable plastic-degrading enzymes from the yeast Pseudozyma antarctica and the fungus Paraphoma sp. B47-9. Polymer Degradation and Stability, 2017, 141, 26-32.	5.8	33
44	The diastereomers of mannosylerythritol lipids have different interfacial properties and aqueous phase behavior, reflecting the erythritol configuration. Carbohydrate Research, 2012, 351, 81-86.	2.3	32
45	Disruption of the Membrane-Bound Alcohol Dehydrogenase-Encoding Gene Improved Glycerol Use and Dihydroxyacetone Productivity inGluconobacter oxydans. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1391-1395.	1.3	31
46	Synthesis of Ultrahigh Molecular Weight Polyphenols by Oxidative Coupling. Macromolecules, 2003, 36, 8213-8215.	4.8	30
47	Biosurfactant-producing yeast isolated from Calyptogena soyoae (deep-sea cold-seep clam) in the deep sea. Journal of Bioscience and Bioengineering, 2010, 110, 169-175.	2.2	28
48	Production of a Novel Mannosylerythritol Lipid Containing a Hydroxy Fatty Acid from Castor Oil by Pseudozyma tsukubaensis. Journal of Oleo Science, 2013, 62, 381-389.	1.4	28
49	Identification of the gene PaEMT1 for biosynthesis of mannosylerythritol lipids in the basidiomycetous yeast Pseudozyma antarctica. Yeast, 2010, 27, 905-917.	1.7	27
50	Production of Sophorolipids from Non-edible Jatropha Oil by Stamerella bombicola NBRC 10243 and Evaluation of their Interfacial Properties. Journal of Oleo Science, 2013, 62, 857-864.	1.4	26
51	Production of d-arabitol from raw glycerol by Candida quercitrusa. Applied Microbiology and Biotechnology, 2014, 98, 2947-2953.	3.6	26
52	Production of Glycolipid Biosurfactants, Mannosylerythritol Lipids, Using Sucrose by Fungal and Yeast Strains, and Their Interfacial Properties. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2352-2355.	1.3	25
53	Bacterial production of short-chain organic acids and trehalose from levulinic acid: A potential cellulose-derived building block as a feedstock for microbial production. Bioresource Technology, 2015, 177, 381-386.	9.6	25
54	A Gene Cluster for Biosynthesis of Mannosylerythritol Lipids Consisted of 4-O-Î²-D-Mannopyranosyl-(2R,3S)-Erythritol as the Sugar Moiety in a Basidiomycetous Yeast Pseudozyma tsukubaensis. PLoS ONE, 2016, 11, e0157858.	2.5	25

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55	Analysis of expressed sequence tags from the anamorphic basidiomycetous yeast,Pseudozyma antarctica, which produces glycolipid biosurfactants, mannosylerythritol lipids. Yeast, 2006, 23, 661-671.	1.7	24
56	Deep-sea Rhodococcus sp. BS-15, Lacking the Phytopathogenic fas Genes, Produces a Novel Glucotriose Lipid Biosurfactant. Marine Biotechnology, 2014, 16, 484-493.	2.4	23
57	Production of mannitol from raw glycerol by Candida azyma. Journal of Bioscience and Bioengineering, 2014, 117, 725-729.	2.2	22
58	Selective Production of Acid-form Sophorolipids from Glycerol by <i>Candida floricola</i>. Journal of Oleo Science, 2017, 66, 1365-1373.	1.4	22
59	Convenient Transformation of Anamorphic Basidiomycetous Yeasts Belonging to Genus Pseudozyma Induced by Electroporation. Journal of Bioscience and Bioengineering, 2007, 104, 517-520.	2.2	20
60	Application of electrodialysis to glycerate recovery from a glycerol containing model solution and culture broth. Journal of Bioscience and Bioengineering, 2009, 107, 425-428.	2.2	19
61	Application of Yeast Glycolipid Biosurfactant, Mannosylerythritol Lipid, as Agrospreaders. Journal of Oleo Science, 2015, 64, 689-695.	1.4	19
62	Biosynthesis of mono-acylated mannosylerythritol lipid in an acyltransferase gene-disrupted mutant of Pseudozyma tsukubaensis. Applied Microbiology and Biotechnology, 2018, 102, 1759-1767.	3.6	19
63	Effect of Phenolic Monomer Structure of Precursor Polymers in Oxidative Coupling of Enzymatically Synthesized Polyphenols. Macromolecules, 2004, 37, 5911-5915.	4.8	18
64	Bioprocessing of Glycerol into Glyceric Acid for Use in Bioplastic Monomer. Journal of Oleo Science, 2011, 60, 369-373.	1.4	18
65	Use of aGluconobacter frateuriiMutant to Prevent Dihydroxyacetone Accumulation during Glyceric Acid Production from Glycerol. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2330-2332.	1.3	17
66	Synthesis and Interfacial Properties of Monoacyl Glyceric Acids as a New Class of Green Surfactants. Journal of Oleo Science, 2012, 61, 343-348.	1.4	17
67	Spontaneous Vesicle Formation from Sodium Salt of Acidic Sophorolipid and Its Application as a Skin Penetration Enhancer. Journal of Oleo Science, 2014, 63, 141-147.	1.4	17
68	Low Molecular Weight Gelators Based on Biosurfactants, Cellobiose Lipids by Cryptococcus humicola. Journal of Oleo Science, 2012, 61, 659-664.	1.4	16
69	Biosurfactant-producing yeasts widely inhabit various vegetables and fruits. Bioscience, Biotechnology and Biochemistry, 2014, 78, 516-523.	1.3	16
70	Moldable and Humidity-Responsive Self-Healable Complex from Lignosulfonate and Cationic Polyelectrolyte. ACS Sustainable Chemistry and Engineering, 2018, 6, 14831-14837.	6.7	16
71	Isolation and Screening of Glycolipid Biosurfactant Producers from Sugarcane. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1788-1791.	1.3	15
72	Two-stage electrodialytic concentration of glyceric acid from fermentation broth. Journal of Bioscience and Bioengineering, 2010, 110, 690-695.	2.2	14

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73	Characterization of Mannosylerythritol Lipids Containing Hexadecatetraenoic Acid Produced from Cuttlefish Oil by Pseudozyma churashimaensis OK96. Journal of Oleo Science, 2013, 62, 319-327.	1.4	12
74	Selective formation of mannosyl-l-arabitol lipid by Pseudozyma tsukubaensis JCM16987. Applied Microbiology and Biotechnology, 2015, 99, 5833-5841.	3.6	12
75	Control of enzymatic degradation of biodegradable polymers by treatment with biosurfactants, mannosylerythritol lipids, derived from Pseudozyma spp. yeast strains. Applied Microbiology and Biotechnology, 2016, 100, 1733-1741.	3.6	12
76	Isolation and characterization of bacterial strains with the ability to utilize high concentrations of levulinic acid, a platform chemical from inedible biomass. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1552-1555.	1.3	11
77	Moldable Material from Îµ-Poly-l-lysine and Lignosulfonate: Mechanical and Self-Healing Properties of a Bio-Based Polyelectrolyte Complex. ACS Omega, 2019, 4, 9756-9762.	3.5	10
78	Reverse vesicle formation from the yeast glycolipid biosurfactant mannosylerythritol lipid-D. Journal of Oleo Science, 2012, 61, 285-289.	1.4	9
79	Selective production of two diastereomers of disaccharide sugar alcohol, mannosylerythritol by Pseudozyma yeasts. Applied Microbiology and Biotechnology, 2014, 98, 823-830.	3.6	9
80	Preparation of pH-Responsive Poly(Î³-glutamic acid) Hydrogels by Enzymatic Cross-Linking. ACS Biomaterials Science and Engineering, 2022, 8, 551-559.	5.2	9
81	Synthesis of Poly(amino acid)â^'Polyphenol Hybrids by Oxidative Cross-Coupling. Macromolecules, 2004, 37, 8481-8484.	4.8	8
82	Synthesis of Dilinoleoyl-D-Glyceric Acid and Evaluation of Its Cytotoxicity to Human Dermal Fibroblast and Endothelial Cells. Journal of Oleo Science, 2011, 60, 483-487.	1.4	8
83	Biochemical synthesis of novel, self-assembling glycolipids from ricinoleic acid by a recombinant Î±-glucosidase from Geobacillus sp.. Biotechnology Letters, 2011, 33, 139-145.	2.2	8
84	Membrane-Bound Alcohol Dehydrogenase Is Essential for Glyceric Acid Production in Acetobacter tropicalis. Journal of Oleo Science, 2011, 60, 489-494.	1.4	8
85	Monolayer Behavior of Binary Systems of Lactonic and Acidic Forms of Sophorolipids: Thermodynamic Analyses of Langmuir Monolayers and AFM Study of Langmuir^|^ndash;Blodgett Monolayers. Journal of Oleo Science, 2014, 63, 67-73.	1.4	7
86	Microbial resolution of dl-glyceric acid for l-glyceric acid production with newly isolated bacterial strains. Journal of Bioscience and Bioengineering, 2015, 119, 554-557.	2.2	7
87	The role of PaAAC1 encoding a mitochondrial ADP/ATP carrier in the biosynthesis of extracellular glycolipids, mannosylerythritol lipids, in the basidiomycetous yeast Pseudozyma antarctica. Yeast, 2010, 27, 379-388.	1.7	6
88	Bio-Based, Flexible, and Tough Material Derived from Îµ-Poly-<scp>l</scp>-lysine and Fructose via the Maillard Reaction. ACS Omega, 2020, 5, 22793-22799.	3.5	6
89	Stepwise synthesis of 2,3-<i>O</i>-dipalmitoyl-D-glyceric acid and an in vitro evaluation of its cytotoxicity. Journal of Oleo Science, 2012, 61, 337-341.	1.4	5
90	Thermal behavior and phase morphology of miscible hydrogen-bonded blends of poly(Îµ-caprolactone) and enzymatically polymerized polyphenol. Journal of Applied Polymer Science, 2006, 101, 149-160.	2.6	4

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91	Biobased and mechanically stiff lignosulfonate/cationic-polyelectrolyte/sugar complexes with coexisting ionic and covalent crosslinks. Polymer Journal, 2021, 53, 1037-1045.	2.7	4
92	Synthesis and Characterization of Dioctanoyl Glycerate as Water-soluble Trypsin Inhibitor. Journal of Oleo Science, 2016, 65, 251-256.	1.4	2
93	Effect of Membrane-bound Aldehyde Dehydrogenase-encoding Gene Disruption on Glyceric Acid Production in Gluconobacter oxydans. Journal of Oleo Science, 2014, 63, 953-957.	1.4	2
94	Novel glycolipid-type surfactants synthesized by a recombinant Î±-glucosidase of Geobacillus sp. HTA-462, a deep-sea microorganism. Journal of Biotechnology, 2010, 150, 408-409.	3.8	0