Tokuma Fukuoka

List of Publications by Citations

92 papers	2,994 citations	33 h-index	50 g-index
97 ext. papers	3,277 ext. citations	3.6 avg, IF	4.83 L-index

#	Paper	IF	Citations
92	Self-assembling properties of glycolipid biosurfactants and their potential applications. *Current Opinion in Colloid and Interface Science*, **2009**, 14, 315-328	7.6	211
91	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, 305-13	5.7	104
90	Characterization of the genus Pseudozyma by the formation of glycolipid biosurfactants, mannosylerythritol lipids. *FEMS Yeast Research*, **2007**, 7, 286-92	3.1	94
89	Microbial production of glyceric acid, an organic acid that can be mass produced from glycerol. *Applied and Environmental Microbiology*, **2009**, 75, 7760-6	4.8	92
88	Microbial conversion of glycerol into glycolipid biosurfactants, mannosylerythritol lipids, by a basidiomycete yeast, Pseudozyma antarctica JCM 10317(T). *Journal of Bioscience and Bioengineering*, **2007**, 104, 78-81	3.3	84
87	Production of mannosylerythritol lipids and their application in cosmetics. *Applied Microbiology and Biotechnology*, **2013**, 97, 4691-700	5.7	81
86	Glycolipid biosurfactants, mannosylerythritol lipids, show antioxidant and protective effects against H(2)O(2)-induced oxidative stress in cultured human skin fibroblasts. *Journal of Oleo Science*, **2012**, 61, 457-64	1.6	80
85	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, 521-31	5.7	76
84	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, 801-10	5.7	76
83	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, 555-60	2.9	70
82	Physiological differences in the formation of the glycolipid biosurfactants, mannosylerythritol lipids, between Pseudozyma antarctica and Pseudozyma aphidis. *Applied Microbiology and Biotechnology*, **2007**, 74, 307-15	5.7	63
81	Production of glycolipid biosurfactants, mannosylerythritol lipids, by Pseudozyma siamensis CBS 9960 and their interfacial properties. *Journal of Bioscience and Bioengineering*, **2008**, 105, 493-502	3.3	60
80	Protease-catalyzed regioselective polymerization and copolymerization of glutamic acid diethyl ester. *Biomacromolecules*, **2002**, 3, 318-23	6.9	59
79	Production of glycolipid biosurfactants by basidiomycetous yeasts. *Biotechnology and Applied Biochemistry*, **2009**, 53, 39-49	2.8	56
78	Enzymatic polymerization of tyrosine derivatives. Peroxidase- and protease-catalyzed synthesis of poly(tyrosine)s with different structures. *Biomacromolecules*, **2002**, 3, 768-74	6.9	56
77	Efficient production of mannosylerythritol lipids with high hydrophilicity by Pseudozyma hubeiensis KM-59. *Applied Microbiology and Biotechnology*, **2008**, 78, 37-46	5.7	54
76	Mannosylerythritol lipids: production and applications. *Journal of Oleo Science*, **2015**, 64, 133-41	1.6	53

75	Biotechnological production of D-glyceric acid and its application. *Applied Microbiology and Biotechnology*, **2009**, 84, 445-52	5.7	53
74	Production of a novel glycolipid biosurfactant, mannosylmannitol lipid, by Pseudozyma parantarctica and its interfacial properties. *Applied Microbiology and Biotechnology*, **2009**, 83, 1017-25	5.7	52
73	Aqueous-phase behavior and vesicle formation of natural glycolipid biosurfactant, mannosylerythritol lipid-B. *Colloids and Surfaces B: Biointerfaces*, **2008**, 65, 106-12	6	51
72	The moisturizing effects of glycolipid biosurfactants, mannosylerythritol lipids, on human skin. *Journal of Oleo Science*, **2012**, 61, 407-12	1.6	50
71	Biotransformation of glycerol to D-glyceric acid by Acetobacter tropicalis. *Applied Microbiology and Biotechnology*, **2009**, 81, 1033-9	5.7	50
70	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, 165-71	6	49
69	A yeast glycolipid biosurfactant, mannosylerythritol lipid, shows high binding affinity towards lectins on a self-assembled monolayer system. *Biotechnology Letters*, **2007**, 29, 473-80	3	49
68	Characterization of new glycolipid biosurfactants, tri-acylated mannosylerythritol lipids, produced by Pseudozyma yeasts. *Biotechnology Letters*, **2007**, 29, 1111-8	3	46
67	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, 137-44	3.3	43
66	Isolation of basidiomycetous yeast Pseudozyma tsukubaensis and production of glycolipid biosurfactant, a diastereomer type of mannosylerythritol lipid-B. *Applied Microbiology and Biotechnology*, **2010**, 88, 679-88	5.7	43
65	Production of glyceric acid by Gluconobacter sp. NBRC3259 using raw glycerol. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 1799-805	2.1	42
64	Yeast extract stimulates production of glycolipid biosurfactants, mannosylerythritol lipids, by Pseudozyma hubeiensis SY62. *Journal of Bioscience and Bioengineering*, **2011**, 111, 702-5	3.3	39
63	Peroxidase-Catalyzed Oxidative Polymerization of 4,4□Dihydroxydiphenyl Ether. Formation of □Hydroxyoligo(1,4-phenylene oxide) through an Unusual Reaction Pathway. *Macromolecules*, **2000**, 33, 9152-9155	5.5	37
62	Formation of the two novel glycolipid biosurfactants, mannosylribitol lipid and mannosylarabitol lipid, by Pseudozyma parantarctica JCM 11752T. *Applied Microbiology and Biotechnology*, **2012**, 96, 931-8	5.7	36
61	Production of Glycolipid Biosurfactants, cellobiose lipids, by Cryptococcus humicola JCM 1461 and their interfacial properties. *Bioscience, Biotechnology and Biochemistry*, **2011**, 75, 1597-9	2.1	35
60	New Positive-Type Photoresists Based on Enzymatically Synthesized Polyphenols. *Macromolecular Rapid Communications*, **2004**, 25, 441-444	4.8	34
59	Production and characterization of a glycolipid biosurfactant, mannosylerythritol lipid B, from sugarcane juice by Ustilago scitaminea NBRC 32730. *Bioscience, Biotechnology and Biochemistry*, **2011**, 75, 1371-6	2.1	33
58	Production of glycolipid biosurfactants, mannosylerythritol lipids, by a smut fungus, Ustilago scitaminea NBRC 32730. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 788-92	2.1	32

57	Enzymatic synthesis of a novel glycolipid biosurfactant, mannosylerythritol lipid-D and its aqueous phase behavior. *Carbohydrate Research*, **2011**, 346, 266-71	2.9	31
56	Accumulation of cellobiose lipids under nitrogen-limiting conditions by two ustilaginomycetous yeasts, Pseudozyma aphidis and Pseudozyma hubeiensis. *FEMS Yeast Research*, **2013**, 13, 44-9	3.1	30
55	A basidiomycetous yeast, Pseudozyma crassa, produces novel diastereomers of conventional mannosylerythritol lipids as glycolipid biosurfactants. *Carbohydrate Research*, **2008**, 343, 2947-55	2.9	30
54	Disruption of the membrane-bound alcohol dehydrogenase-encoding gene improved glycerol use and dihydroxyacetone productivity in Gluconobacter oxydans. *Bioscience, Biotechnology and Biochemistry*, **2010**, 74, 1391-5	2.1	29
53	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, 325-9	3.3	28
52	Efficient Production of Acid-Form Sophorolipids from Waste Glycerol and Fatty Acid Methyl Esters by Candida floricola. *Journal of Oleo Science*, **2018**, 67, 489-496	1.6	27
51	Synthesis of Ultrahigh Molecular Weight Polyphenols by Oxidative Coupling. *Macromolecules*, **2003**, 36, 8213-8215	5.5	27
50	Phase behavior of ternary mannosylerythritol lipid/water/oil systems. *Colloids and Surfaces B: Biointerfaces*, **2009**, 68, 207-12	6	26
49	Biosurfactant-producing yeast isolated from Calyptogena soyoae (deep-sea cold-seep clam) in the deep sea. *Journal of Bioscience and Bioengineering*, **2010**, 110, 169-75	3.3	26
48	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, 8591-8	5.7	24
47	Identification of the gene PaEMT1 for biosynthesis of mannosylerythritol lipids in the basidiomycetous yeast Pseudozyma antarctica. *Yeast*, **2010**, 27, 905-17	3.4	24
46	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, 381-6	11	23
45	The diastereomers of mannosylerythritol lipids have different interfacial properties and aqueous phase behavior, reflecting the erythritol configuration. *Carbohydrate Research*, **2012**, 351, 81-6	2.9	21
44	Analysis of expressed sequence tags from the anamorphic basidiomycetous yeast, Pseudozyma antarctica, which produces glycolipid biosurfactants, mannosylerythritol lipids. *Yeast*, **2006**, 23, 661-71	3.4	21
43	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, 857-64	1.6	20
42	Production of a novel mannosylerythritol lipid containing a hydroxy fatty acid from castor oil by Pseudozyma tsukubaensis. *Journal of Oleo Science*, **2013**, 62, 381-9	1.6	20
41	Production of glycolipid biosurfactants, mannosylerythritol lipids, using sucrose by fungal and yeast strains, and their interfacial properties. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 2352-5	2.1	20
40	Deep-sea Rhodococcus sp. BS-15, lacking the phytopathogenic fas genes, produces a novel glucotriose lipid biosurfactant. *Marine Biotechnology*, **2014**, 16, 484-93	3.4	18

39	Application of electrodialysis to glycerate recovery from a glycerol containing model solution and culture broth. *Journal of Bioscience and Bioengineering*, **2009**, 107, 425-8	3.3	18
38	Production of D-arabitol from raw glycerol by Candida quercitrusa. *Applied Microbiology and Biotechnology*, **2014**, 98, 2947-53	5.7	17
37	Convenient transformation of anamorphic basidiomycetous yeasts belonging to genus pseudozyma induced by electroporation. *Journal of Bioscience and Bioengineering*, **2007**, 104, 517-20	3.3	17
36	Effect of Phenolic Monomer Structure of Precursor Polymers in Oxidative Coupling of Enzymatically Synthesized Polyphenols. *Macromolecules*, **2004**, 37, 5911-5915	5.5	17
35	A Gene Cluster for Biosynthesis of Mannosylerythritol Lipids Consisted of 4-O-β-D-Mannopyranosyl-(2R,3S)-Erythritol as the Sugar Moiety in a Basidiomycetous Yeast Pseudozyma tsukubaensis. *PLoS ONE*, **2016**, 11, e0157858	3.7	17
34	Production of mannitol from raw glycerol by Candida azyma. *Journal of Bioscience and Bioengineering*, **2014**, 117, 725-9	3.3	16
33	Bioprocessing of glycerol into glyceric Acid for use in bioplastic monomer. *Journal of Oleo Science*, **2011**, 60, 369-73	1.6	16
32	Use of a Gluconobacter frateurii mutant to prevent dihydroxyacetone accumulation during glyceric acid production from glycerol. *Bioscience, Biotechnology and Biochemistry*, **2010**, 74, 2330-2	2.1	15
31	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	4.7	14
30	Biosurfactant-producing yeasts widely inhabit various vegetables and fruits. *Bioscience, Biotechnology and Biochemistry*, **2014**, 78, 516-23	2.1	14
29	Selective Production of Acid-form Sophorolipids from Glycerol by Candida floricola. *Journal of Oleo Science*, **2017**, 66, 1365-1373	1.6	14
28	Isolation and screening of glycolipid biosurfactant producers from sugarcane. *Bioscience, Biotechnology and Biochemistry*, **2012**, 76, 1788-91	2.1	14
27	Biosynthesis of mono-acylated mannosylerythritol lipid in an acyltransferase gene-disrupted mutant of Pseudozyma tsukubaensis. *Applied Microbiology and Biotechnology*, **2018**, 102, 1759-1767	5.7	13
26	Spontaneous vesicle formation from sodium salt of acidic sophorolipid and its application as a skin penetration enhancer. *Journal of Oleo Science*, **2014**, 63, 141-7	1.6	13
25	Two-stage electrodialytic concentration of glyceric acid from fermentation broth. *Journal of Bioscience and Bioengineering*, **2010**, 110, 690-5	3.3	13
24	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	5.7	12
23	Application of yeast glycolipid biosurfactant, mannosylerythritol lipid, as agrospreaders. *Journal of Oleo Science*, **2015**, 64, 689-95	1.6	12
22	Low molecular weight gelators based on biosurfactants, cellobiose lipids by Cryptococcus humicola. *Journal of Oleo Science*, **2012**, 61, 659-64	1.6	12

21	Moldable and Humidity-Responsive Self-Healable Complex from Lignosulfonate and Cationic Polyelectrolyte. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14831-14837	8.3	12
20	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, 1552-5	2.1	11
19	Characterization of mannosylerythritol lipids containing hexadecatetraenoic acid produced from cuttlefish oil by Pseudozyma churashimaensis OK96. *Journal of Oleo Science*, **2013**, 62, 319-27	1.6	11
18	Synthesis and interfacial properties of monoacyl glyceric acids as a new class of green surfactants. *Journal of Oleo Science*, **2012**, 61, 343-8	1.6	11
17	Selective formation of mannosyl-L-arabitol lipid by Pseudozyma tsukubaensis JCM16987. *Applied Microbiology and Biotechnology*, **2015**, 99, 5833-41	5.7	10
16	Moldable Material from Poly-l-lysine and Lignosulfonate: Mechanical and Self-Healing Properties of a Bio-Based Polyelectrolyte Complex. *ACS Omega*, **2019**, 4, 9756-9762	3.9	8
15	Synthesis of dilinoleoyl-D-glyceric acid and evaluation of its cytotoxicity to human dermal fibroblast and endothelial cells. *Journal of Oleo Science*, **2011**, 60, 483-7	1.6	8
14	Biochemical synthesis of novel, self-assembling glycolipids from ricinoleic acid by a recombinant glucosidase from Geobacillus sp. *Biotechnology Letters*, **2011**, 33, 139-45	3	8
13	Synthesis of Poly(amino acid)Polyphenol Hybrids by Oxidative Cross-Coupling. *Macromolecules*, **2004**, 37, 8481-8484	5.5	8
12	Selective production of two diastereomers of disaccharide sugar alcohol, mannosylerythritol by Pseudozyma yeasts. *Applied Microbiology and Biotechnology*, **2014**, 98, 823-30	5.7	7
11	Reverse vesicle formation from the yeast glycolipid biosurfactant mannosylerythritol lipid-D. *Journal of Oleo Science*, **2012**, 61, 285-9	1.6	7
10	Membrane-bound alcohol dehydrogenase is essential for glyceric acid production in Acetobacter tropicalis. *Journal of Oleo Science*, **2011**, 60, 489-94	1.6	7
9	Microbial resolution of DL-glyceric acid for L-glyceric acid production with newly isolated bacterial strains. *Journal of Bioscience and Bioengineering*, **2015**, 119, 554-7	3.3	6
8	Monolayer behavior of binary systems of lactonic and acidic forms of sophorolipids: thermodynamic analyses of Langmuir monolayers and AFM study of Langmuir-Blodgett monolayers. *Journal of Oleo Science*, **2014**, 63, 67-73	1.6	5
7	Stepwise synthesis of 2,3-O-dipalmitoyl-D-glyceric acid and an in vitro evaluation of its cytotoxicity. *Journal of Oleo Science*, **2012**, 61, 337-41	1.6	5
6	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, 379-88	3.4	5
5	Thermal behavior and phase morphology of miscible hydrogen-bonded blends of poly(?-caprolactone) and enzymatically polymerized polyphenol. *Journal of Applied Polymer Science*, **2006**, 101, 149-160	2.9	4
4	Bio-Based, Flexible, and Tough Material Derived from Poly-l-lysine and Fructose via the Maillard Reaction. *ACS Omega*, **2020**, 5, 22793-22799	3.9	3

3	Effect of membrane-bound aldehyde dehydrogenase-encoding gene disruption on glyceric acid production in Gluconobacter oxydans. *Journal of Oleo Science*, **2014**, 63, 953-7	1.6	2
2	Synthesis and Characterization of Dioctanoyl Glycerate as Water-soluble Trypsin Inhibitor. *Journal of Oleo Science*, **2016**, 65, 251-6	1.6	2
1	Biobased and mechanically stiff lignosulfonate/cationic-polyelectrolyte/sugar complexes with coexisting ionic and covalent crosslinks. *Polymer Journal*, **2021**, 53, 1037-1045	2.7	1