

Tokuma Fukuoka

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Biobased and mechanically stiff lignosulfonate/cationic-polyelectrolyte/sugar complexes with coexisting ionic and covalent crosslinks. <i>Polymer Journal</i> , 2021 , 53, 1037-1045	2.7	1
91	Bio-Based, Flexible, and Tough Material Derived from Poly-L-lysine and Fructose via the Maillard Reaction. <i>ACS Omega</i> , 2020 , 5, 22793-22799	3.9	3
90	Moldable Material from Poly-L-lysine and Lignosulfonate: Mechanical and Self-Healing Properties of a Bio-Based Polyelectrolyte Complex. <i>ACS Omega</i> , 2019 , 4, 9756-9762	3.9	8
89	Biosynthesis of mono-acylated mannosylerythritol lipid in an acyltransferase gene-disrupted mutant of <i>Pseudozyma tsukubaensis</i> . <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 1759-1767	5.7	13
88	Efficient Production of Acid-Form Sophorolipids from Waste Glycerol and Fatty Acid Methyl Esters by <i>Candida floricola</i> . <i>Journal of Oleo Science</i> , 2018 , 67, 489-496	1.6	27
87	Moldable and Humidity-Responsive Self-Healable Complex from Lignosulfonate and Cationic Polyelectrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14831-14837	8.3	12
86	Degradation profiles of biodegradable plastic films by biodegradable plastic-degrading enzymes from the yeast <i>Pseudozyma antarctica</i> and the fungus <i>Paraphoma</i> sp. B47-9. <i>Polymer Degradation and Stability</i> , 2017 , 141, 26-32	4.7	14
85	Selective Production of Acid-form Sophorolipids from Glycerol by <i>Candida floricola</i> . <i>Journal of Oleo Science</i> , 2017 , 66, 1365-1373	1.6	14
84	Control of enzymatic degradation of biodegradable polymers by treatment with biosurfactants, mannosylerythritol lipids, derived from <i>Pseudozyma</i> spp. yeast strains. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 1733-1741	5.7	12
83	A Gene Cluster for Biosynthesis of Mannosylerythritol Lipids Consisted of 4-O-ED-Mannopyranosyl-(2R,3S)-Erythritol as the Sugar Moiety in a Basidiomycetous Yeast <i>Pseudozyma tsukubaensis</i> . <i>PLoS ONE</i> , 2016 , 11, e0157858	3.7	17
82	Synthesis and Characterization of Dioctanoyl Glycerate as Water-soluble Trypsin Inhibitor. <i>Journal of Oleo Science</i> , 2016 , 65, 251-6	1.6	2
81	Microbial resolution of DL-glyceric acid for L-glyceric acid production with newly isolated bacterial strains. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 119, 554-7	3.3	6
80	Isolation and characterization of bacterial strains with the ability to utilize high concentrations of levulinic acid, a platform chemical from inedible biomass. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015 , 79, 1552-5	2.1	11
79	Selective formation of mannosyl-L-arabitol lipid by <i>Pseudozyma tsukubaensis</i> JCM16987. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 5833-41	5.7	10
78	Mannosylerythritol lipids: production and applications. <i>Journal of Oleo Science</i> , 2015 , 64, 133-41	1.6	53
77	Application of yeast glycolipid biosurfactant, mannosylerythritol lipid, as agrospreaders. <i>Journal of Oleo Science</i> , 2015 , 64, 689-95	1.6	12
76	Bacterial production of short-chain organic acids and trehalose from levulinic acid: a potential cellulose-derived building block as a feedstock for microbial production. <i>Bioresource Technology</i> , 2015 , 177, 381-6	11	23

75	Deep-sea <i>Rhodococcus</i> sp. BS-15, lacking the phytopathogenic <i>fas</i> genes, produces a novel glucotriose lipid biosurfactant. <i>Marine Biotechnology</i> , 2014 , 16, 484-93	3.4	18
74	Production of mannitol from raw glycerol by <i>Candida azyma</i> . <i>Journal of Bioscience and Bioengineering</i> , 2014 , 117, 725-9	3.3	16
73	Biosurfactant-producing yeasts widely inhabit various vegetables and fruits. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014 , 78, 516-23	2.1	14
72	Xylose induces the phyllosphere yeast <i>Pseudozyma antarctica</i> to produce a cutinase-like enzyme which efficiently degrades biodegradable plastics. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 117, 325-9	3.3	28
71	Spontaneous vesicle formation from sodium salt of acidic sophorolipid and its application as a skin penetration enhancer. <i>Journal of Oleo Science</i> , 2014 , 63, 141-7	1.6	13
70	Monolayer behavior of binary systems of lactonic and acidic forms of sophorolipids: thermodynamic analyses of Langmuir monolayers and AFM study of Langmuir-Blodgett monolayers. <i>Journal of Oleo Science</i> , 2014 , 63, 67-73	1.6	5
69	Selective production of two diastereomers of disaccharide sugar alcohol, mannosylerythritol by <i>Pseudozyma</i> yeasts. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 823-30	5.7	7
68	Production of D-arabitol from raw glycerol by <i>Candida quercitrusa</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 2947-53	5.7	17
67	Effect of membrane-bound aldehyde dehydrogenase-encoding gene disruption on glyceric acid production in <i>Gluconobacter oxydans</i> . <i>Journal of Oleo Science</i> , 2014 , 63, 953-7	1.6	2
66	Enzymatic degradation of polyester films by a cutinase-like enzyme from <i>Pseudozyma antarctica</i> : surface plasmon resonance and atomic force microscopy study. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 8591-8	5.7	24
65	Accumulation of cellobiose lipids under nitrogen-limiting conditions by two ustilaginomycetous yeasts, <i>Pseudozyma aphidis</i> and <i>Pseudozyma hubeiensis</i> . <i>FEMS Yeast Research</i> , 2013 , 13, 44-9	3.1	30
64	Production of mannosylerythritol lipids and their application in cosmetics. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 4691-700	5.7	81
63	Production of sophorolipids from non-edible <i>Jatropha</i> oil by <i>Stamerella bombicola</i> NBRC 10243 and evaluation of their interfacial properties. <i>Journal of Oleo Science</i> , 2013 , 62, 857-64	1.6	20
62	Production of a novel mannosylerythritol lipid containing a hydroxy fatty acid from castor oil by <i>Pseudozyma tsukubaensis</i> . <i>Journal of Oleo Science</i> , 2013 , 62, 381-9	1.6	20
61	Characterization of mannosylerythritol lipids containing hexadecatetraenoic acid produced from cuttlefish oil by <i>Pseudozyma churashimaensis</i> OK96. <i>Journal of Oleo Science</i> , 2013 , 62, 319-27	1.6	11
60	Formation of the two novel glycolipid biosurfactants, mannosylribitol lipid and mannosylarabitol lipid, by <i>Pseudozyma parantarctica</i> JCM 11752T. <i>Applied Microbiology and Biotechnology</i> , 2012 , 96, 931-8	5.7	36
59	Stepwise synthesis of 2,3-O-dipalmitoyl-D-glyceric acid and an in vitro evaluation of its cytotoxicity. <i>Journal of Oleo Science</i> , 2012 , 61, 337-41	1.6	5
58	Reverse vesicle formation from the yeast glycolipid biosurfactant mannosylerythritol lipid-D. <i>Journal of Oleo Science</i> , 2012 , 61, 285-9	1.6	7

57	Low molecular weight gelators based on biosurfactants, cellobiose lipids by <i>Cryptococcus humicola</i> . <i>Journal of Oleo Science</i> , 2012 , 61, 659-64	1.6	12
56	Glycolipid biosurfactants, mannosylerythritol lipids, show antioxidant and protective effects against H ₂ O ₂ -induced oxidative stress in cultured human skin fibroblasts. <i>Journal of Oleo Science</i> , 2012 , 61, 457-64	1.6	80
55	The moisturizing effects of glycolipid biosurfactants, mannosylerythritol lipids, on human skin. <i>Journal of Oleo Science</i> , 2012 , 61, 407-12	1.6	50
54	The diastereomers of mannosylerythritol lipids have different interfacial properties and aqueous phase behavior, reflecting the erythritol configuration. <i>Carbohydrate Research</i> , 2012 , 351, 81-6	2.9	21
53	Isolation and screening of glycolipid biosurfactant producers from sugarcane. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012 , 76, 1788-91	2.1	14
52	Synthesis and interfacial properties of monoacyl glyceric acids as a new class of green surfactants. <i>Journal of Oleo Science</i> , 2012 , 61, 343-8	1.6	11
51	Synthesis of dilinoleoyl-D-glyceric acid and evaluation of its cytotoxicity to human dermal fibroblast and endothelial cells. <i>Journal of Oleo Science</i> , 2011 , 60, 483-7	1.6	8
50	Bioprocessing of glycerol into glyceric Acid for use in bioplastic monomer. <i>Journal of Oleo Science</i> , 2011 , 60, 369-73	1.6	16
49	Yeast extract stimulates production of glycolipid biosurfactants, mannosylerythritol lipids, by <i>Pseudozyma hubeiensis</i> SY62. <i>Journal of Bioscience and Bioengineering</i> , 2011 , 111, 702-5	3.3	39
48	Isolation of <i>Pseudozyma churashimaensis</i> sp. nov., a novel ustilaginomycetous yeast species as a producer of glycolipid biosurfactants, mannosylerythritol lipids. <i>Journal of Bioscience and Bioengineering</i> , 2011 , 112, 137-44	3.3	43
47	Biochemical synthesis of novel, self-assembling glycolipids from ricinoleic acid by a recombinant β -glucosidase from <i>Geobacillus</i> sp. <i>Biotechnology Letters</i> , 2011 , 33, 139-45	3	8
46	Production of Glycolipid Biosurfactants, cellobiose lipids, by <i>Cryptococcus humicola</i> JCM 1461 and their interfacial properties. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011 , 75, 1597-9	2.1	35
45	Production and characterization of a glycolipid biosurfactant, mannosylerythritol lipid B, from sugarcane juice by <i>Ustilago scitaminea</i> NBRC 32730. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011 , 75, 1371-6	2.1	33
44	Enzymatic synthesis of a novel glycolipid biosurfactant, mannosylerythritol lipid-D and its aqueous phase behavior. <i>Carbohydrate Research</i> , 2011 , 346, 266-71	2.9	31
43	Membrane-bound alcohol dehydrogenase is essential for glyceric acid production in <i>Acetobacter tropicalis</i> . <i>Journal of Oleo Science</i> , 2011 , 60, 489-94	1.6	7
42	Use of a <i>Gluconobacter frateurii</i> mutant to prevent dihydroxyacetone accumulation during glyceric acid production from glycerol. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 2330-2	2.1	15
41	Disruption of the membrane-bound alcohol dehydrogenase-encoding gene improved glycerol use and dihydroxyacetone productivity in <i>Gluconobacter oxydans</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2010 , 74, 1391-5	2.1	29
40	Isolation of basidiomycetous yeast <i>Pseudozyma tsukubaensis</i> and production of glycolipid biosurfactant, a diastereomer type of mannosylerythritol lipid-B. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 679-88	5.7	43

39	Biosurfactant-producing yeast isolated from <i>Calyptogena soyoae</i> (deep-sea cold-seep clam) in the deep sea. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 110, 169-75	3.3	26
38	Two-stage electro dialytic concentration of glyceric acid from fermentation broth. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 110, 690-5	3.3	13
37	The role of PaAAC1 encoding a mitochondrial ADP/ATP carrier in the biosynthesis of extracellular glycolipids, mannosylerythritol lipids, in the basidiomycetous yeast <i>Pseudozyma antarctica</i> . <i>Yeast</i> , 2010 , 27, 379-88	3.4	5
36	Identification of the gene PaEMT1 for biosynthesis of mannosylerythritol lipids in the basidiomycetous yeast <i>Pseudozyma antarctica</i> . <i>Yeast</i> , 2010 , 27, 905-17	3.4	24
35	Microbial production of glyceric acid, an organic acid that can be mass produced from glycerol. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 7760-6	4.8	92
34	Application of electro dialysis to glycerate recovery from a glycerol containing model solution and culture broth. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 107, 425-8	3.3	18
33	Production of a novel glycolipid biosurfactant, mannosylmannitol lipid, by <i>Pseudozyma parantarctica</i> and its interfacial properties. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 1017-25	5.7	52
32	Biotechnological production of D-glyceric acid and its application. <i>Applied Microbiology and Biotechnology</i> , 2009 , 84, 445-52	5.7	53
31	Self-assembling properties of glycolipid biosurfactants and their potential applications. <i>Current Opinion in Colloid and Interface Science</i> , 2009 , 14, 315-328	7.6	211
30	Phase behavior of ternary mannosylerythritol lipid/water/oil systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009 , 68, 207-12	6	26
29	Biotransformation of glycerol to D-glyceric acid by <i>Acetobacter tropicalis</i> . <i>Applied Microbiology and Biotechnology</i> , 2009 , 81, 1033-9	5.7	50
28	Production of glycolipid biosurfactants by basidiomycetous yeasts. <i>Biotechnology and Applied Biochemistry</i> , 2009 , 53, 39-49	2.8	56
27	Production of glyceric acid by <i>Gluconobacter</i> sp. NBRC3259 using raw glycerol. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 1799-805	2.1	42
26	Production of glycolipid biosurfactants, mannosylerythritol lipids, by a smut fungus, <i>Ustilago scitaminea</i> NBRC 32730. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 788-92	2.1	32
25	Production of glycolipid biosurfactants, mannosylerythritol lipids, using sucrose by fungal and yeast strains, and their interfacial properties. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 2352-5 ¹	2.1	20
24	Production of glycolipid biosurfactants, mannosylerythritol lipids, by <i>Pseudozyma siamensis</i> CBS 9960 and their interfacial properties. <i>Journal of Bioscience and Bioengineering</i> , 2008 , 105, 493-502	3.3	60
23	Efficient production of mannosylerythritol lipids with high hydrophilicity by <i>Pseudozyma hubeiensis</i> KM-59. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 37-46	5.7	54
22	Aqueous-phase behavior and vesicle formation of natural glycolipid biosurfactant, mannosylerythritol lipid-B. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 65, 106-12	6	51

21	A basidiomycetous yeast, <i>Pseudozyma tsukubaensis</i> , efficiently produces a novel glycolipid biosurfactant. The identification of a new diastereomer of mannosylerythritol lipid-B. <i>Carbohydrate Research</i> , 2008 , 343, 555-60	2.9	70
20	A basidiomycetous yeast, <i>Pseudozyma crassa</i> , produces novel diastereomers of conventional mannosylerythritol lipids as glycolipid biosurfactants. <i>Carbohydrate Research</i> , 2008 , 343, 2947-55	2.9	30
19	Kinetic studies on the interactions between glycolipid biosurfactant assembled monolayers and various classes of immunoglobulins using surface plasmon resonance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 58, 165-71	6	49
18	Characterization of the genus <i>Pseudozyma</i> by the formation of glycolipid biosurfactants, mannosylerythritol lipids. <i>FEMS Yeast Research</i> , 2007 , 7, 286-92	3.1	94
17	Physiological differences in the formation of the glycolipid biosurfactants, mannosylerythritol lipids, between <i>Pseudozyma antarctica</i> and <i>Pseudozyma aphidis</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 307-15	5.7	63
16	Production of different types of mannosylerythritol lipids as biosurfactants by the newly isolated yeast strains belonging to the genus <i>Pseudozyma</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 75, 521-31	5.7	76
15	Structural characterization and surface-active properties of a new glycolipid biosurfactant, mono-acylated mannosylerythritol lipid, produced from glucose by <i>Pseudozyma antarctica</i> . <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 801-10	5.7	76
14	A yeast glycolipid biosurfactant, mannosylerythritol lipid, shows high binding affinity towards lectins on a self-assembled monolayer system. <i>Biotechnology Letters</i> , 2007 , 29, 473-80	3	49
13	Characterization of new glycolipid biosurfactants, tri-acylated mannosylerythritol lipids, produced by <i>Pseudozyma</i> yeasts. <i>Biotechnology Letters</i> , 2007 , 29, 1111-8	3	46
12	Convenient transformation of anamorphic basidiomycetous yeasts belonging to genus <i>pseudozyma</i> induced by electroporation. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 104, 517-20	3.3	17
11	Microbial conversion of glycerol into glycolipid biosurfactants, mannosylerythritol lipids, by a basidiomycete yeast, <i>Pseudozyma antarctica</i> JCM 10317(T). <i>Journal of Bioscience and Bioengineering</i> , 2007 , 104, 78-81	3.3	84
10	Discovery of <i>Pseudozyma rugulosa</i> NBRC 10877 as a novel producer of the glycolipid biosurfactants, mannosylerythritol lipids, based on rDNA sequence. <i>Applied Microbiology and Biotechnology</i> , 2006 , 73, 305-13	5.7	104
9	Thermal behavior and phase morphology of miscible hydrogen-bonded blends of poly(ϵ -caprolactone) and enzymatically polymerized polyphenol. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 149-160	2.9	4
8	Analysis of expressed sequence tags from the anamorphic basidiomycetous yeast, <i>Pseudozyma antarctica</i> , which produces glycolipid biosurfactants, mannosylerythritol lipids. <i>Yeast</i> , 2006 , 23, 661-71	3.4	21
7	New Positive-Type Photoresists Based on Enzymatically Synthesized Polyphenols. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 441-444	4.8	34
6	Effect of Phenolic Monomer Structure of Precursor Polymers in Oxidative Coupling of Enzymatically Synthesized Polyphenols. <i>Macromolecules</i> , 2004 , 37, 5911-5915	5.5	17
5	Synthesis of Poly(amino acid)Polyphenol Hybrids by Oxidative Cross-Coupling. <i>Macromolecules</i> , 2004 , 37, 8481-8484	5.5	8
4	Synthesis of Ultrahigh Molecular Weight Polyphenols by Oxidative Coupling. <i>Macromolecules</i> , 2003 , 36, 8213-8215	5.5	27

3	Protease-catalyzed regioselective polymerization and copolymerization of glutamic acid diethyl ester. <i>Biomacromolecules</i> , 2002 , 3, 318-23	6.9	59
2	Enzymatic polymerization of tyrosine derivatives. Peroxidase- and protease-catalyzed synthesis of poly(tyrosine)s with different structures. <i>Biomacromolecules</i> , 2002 , 3, 768-74	6.9	56
1	Peroxidase-Catalyzed Oxidative Polymerization of 4,4'-Dihydroxydiphenyl Ether. Formation of β -Hydroxyoligo(1,4-phenylene oxide) through an Unusual Reaction Pathway. <i>Macromolecules</i> , 2000 , 33, 9152-9155	5.5	37