Tatsuji Sakamoto

List of Publications by Year
in descending order

63	1,724	279798 23	315739 38
papers	citations	h-index	g-index

63	63	63	1612
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	âŒˆPectin, Pectinase, and Protopectinase: Production,âŒˆ Properties, and Applications. Advances in Applied Microbiology, 1993, 39, 213-294.	2.4	291
2	Immunostimulatory Activity of Polysaccharides Isolated fromCaulerpa lentilliferaon Macrophage Cells. Bioscience, Biotechnology and Biochemistry, 2012, 76, 501-505.	1.3	71
3	Esterification of ferulic acid with polyols using a ferulic acid esterase from Aspergillus niger. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 1071-1079.	2.4	67
4	Identification of a GH62 Î±-l-arabinofuranosidase specific for arabinoxylan produced by Penicillium chrysogenum. Applied Microbiology and Biotechnology, 2011, 90, 137-146.	3.6	57
5	Exo-Arabinanase of Penicillium chrysogenum Able To Release Arabinobiose from Î±-1,5- l -Arabinan. Applied and Environmental Microbiology, 2001, 67, 3319-3321.	3.1	52
6	Analysis of structure of sugar-beet pectin by enzymatic methods. Phytochemistry, 1995, 39, 821-823.	2.9	51
7	Induction of Apoptosis in MCF-7 Cells by Î²-1,3-Xylooligosaccharides Prepared fromCaulerpa lentillifera. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1032-1034.	1.3	48
8	Purification, Characterization, and Production of Two Pectic Transeliminases with Protopectinase Activity fromBacillus subtilis. Bioscience, Biotechnology and Biochemistry, 1994, 58, 353-358.	1.3	44
9	Inhibition of Nitric Oxide Production and Inducible Nitric Oxide Synthase Expression by a Polymethoxyflavone from Young Fruits ofCitrus unshiuin Rat Primary Astrocytes. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1843-1848.	1.3	43
10	Studies on enzymes produced by Bacillus. Part III. Purification and some properties of a protopectin-solubilizing enzyme that has potent activity on sugar beet protopectin.. Agricultural and Biological Chemistry, 1990, 54, 879-889.	0.3	41
11	Purification, characterization and gene cloning of two forms of a thermostable endo-xylanase from Streptomyces sp. SWU10. Process Biochemistry, 2011, 46, 2255-2262.	3.7	36
12	Substrate specificity and gene expression of two Penicillium chrysogenum Î±-l-arabinofuranosidases (AFQ1 and AFS1) belonging to glycoside hydrolase families 51 and 54. Applied Microbiology and Biotechnology, 2013, 97, 1121-1130.	3.6	34
13	Molecular characterization of a Penicillium chrysogenum exo-1,5-Î±-L -arabinanase that is structurally distinct from other arabinan-degrading enzymes. FEBS Letters, 2004, 560, 199-204.	2.8	33
14	Alteration of Wax Ester Content and Composition in Euglena gracilis with Gene Silencing of 3â€ketoacylâ€CoA Thiolase Isozymes. Lipids, 2015, 50, 483-492.	1.7	32
15	Biochemical characterization of a GH53 endo-Î²-1,4-galactanase and a GH35 exo-Î²-1,4-galactanase from Penicillium chrysogenum. Applied Microbiology and Biotechnology, 2013, 97, 2895-2906.	3.6	31
16	Purification, Characterization, and Overexpression of Thermophilic Pectate Lyase ofBacillussp. RN1 Isolated from a Hot Spring in Thailand. Bioscience, Biotechnology and Biochemistry, 2009, 73, 268-273.	1.3	30
17	Identification of two GH27 bifunctional proteins with Î²-L-arabinopyranosidase/Î±-D-galactopyranosidase activities from Fusarium oxysporum. Applied Microbiology and Biotechnology, 2010, 86, 1115-1124.	3.6	30
18	Protopectinase-T: a rhamnogalacturonase able to solubilize protopectin from sugar beet. Carbohydrate Research, 1994, 259, 77-91.	2.3	29

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19	Lactic Acid Bacteria from Kefir Increase Cytotoxicity of Natural Killer Cells to Tumor Cells. Foods, 2018, 7, 48.	4.3	28
20	Determination of chemical structure of pea pectin by using pectinolytic enzymes. Carbohydrate Polymers, 2020, 231, 115738.	10.2	27
21	Characterization of Fusarium oxysporum Î²-1,6-Galactanase, an Enzyme That Hydrolyzes Larch Wood Arabinogalactan. Applied and Environmental Microbiology, 2007, 73, 3109-3112.	3.1	26
22	Water-soluble ferulic acid derivatives improve amyloid-Î²-induced neuronal cell death and dysmnesia through inhibition of amyloid-Î² aggregation. Bioscience, Biotechnology and Biochemistry, 2016, 80, 547-553.	1.3	25
23	A novel GH43 Î±-l-arabinofuranosidase of Penicillium chrysogenum that preferentially degrades single-substituted arabinosyl side chains in arabinan. Enzyme and Microbial Technology, 2014, 58-59, 80-86.	3.2	24
24	Purification and Characterization of a Rhamnogalacturonase with Protopectinase Activity from Trametes sanguinea. FEBS Journal, 1994, 226, 285-291.	0.2	23
25	Molecular Cloning and Nucleotide Sequence of an Endo-1,5-alpha-L-Arabinase Gene from Bacillus Subtilis. FEBS Journal, 1997, 245, 708-714.	0.2	23
26	Enzymatic Synthesis of Hydroxycinnamic Acid Glycerol Esters Using Type A Feruloyl Esterase fromAspergillus niger. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2606-2609.	1.3	23
27	Biochemical characterization and gene expression of two endo-arabinanases from Penicillium chrysogenum 31B. Applied Microbiology and Biotechnology, 2012, 93, 1087-1096.	3.6	23
28	Studies on Protopectinase-C Mode of Action: Analysis of the Chemical Structure of the Specific Substrate in Sugar Beet Protopectin and Characterization of the Enzyme Activity. Bioscience, Biotechnology and Biochemistry, 1993, 57, 1832-1837.	1.3	22
29	Peculiarities and applications of galactanolytic enzymes that act on type I and II arabinogalactans. Applied Microbiology and Biotechnology, 2013, 97, 5201-5213.	3.6	22
30	A novel Î±-galactosidase from Fusarium oxysporum and its application in determining the structure of the gum arabic side chain. Enzyme and Microbial Technology, 2017, 103, 25-33.	3.2	22
31	Synthesis of highly water-soluble feruloyl diglycerols by esterification of an Aspergillus niger feruloyl esterase. Applied Microbiology and Biotechnology, 2012, 95, 615-622.	3.6	21
32	Ferulic acid and its water-soluble derivatives inhibit nitric oxide production and inducible nitric oxide synthase expression in rat primary astrocytes. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1607-1611.	1.3	21
33	Characterization of an exo-Î²-1,3-d-galactanase from Sphingomonas sp. 24T and its application to structural analysis of larch wood arabinogalactan. Applied Microbiology and Biotechnology, 2011, 90, 1701-1710.	3.6	20
34	Identification of a novel Penicillium chrysogenum rhamnogalacturonan rhamnohydrolase and the first report of a rhamnogalacturonan rhamnohydrolase gene. Enzyme and Microbial Technology, 2017, 98, 76-85.	3.2	20
35	Enzymic pectin extraction from protopectins using microbial protopectinases. Process Biochemistry, 1995, 30, 403-409.	3.7	19
36	Biochemical Characterization and Overexpression of an Endo-rhamnogalacturonan Lyase from Penicillium chrysogenum. Molecular Biotechnology, 2015, 57, 539-548.	2.4	19

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37	Purification, characterization, and overexpression of an endo-1,4-Î²-mannanase from thermotolerant Bacillus sp. SWU60. World Journal of Microbiology and Biotechnology, 2017, 33, 53.	3.6	19
38	Purification, Characterization of GH11 Endo-Î²-1,4-xylanase from Thermotolerant Streptomyces sp. SWU10 and Overexpression in Pichia pastoris KM71H. Molecular Biotechnology, 2013, 54, 37-46.	2.4	18
39	Transglycosylation catalyzed by a Penicillium chrysogenum exo-1,5-Î±-l-arabinanase. Biochimica Et Biophysica Acta - General Subjects, 2004, 1674, 85-90.	2.4	17
40	Efficient Extraction of Ferulic Acid from Sugar Beet Pulp Using the Culture Supernatant of Penicillium chrysogenum. Journal of Applied Glycoscience (1999), 2005, 52, 115-120.	0.7	17
41	Physiological functions of pyruvate:NADP+ oxidoreductase and 2-oxoglutarate decarboxylase in Euglena gracilis under aerobic and anaerobic conditions. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1386-1393.	1.3	17
42	Identification of an exo-ÃŸ-1,3-d-galactanase from Fusarium oxysporum and the synergistic effect with related enzymes on degradation of type II arabinogalactan. Applied Microbiology and Biotechnology, 2013, 97, 9685-9694.	3.6	16
43	Crystal structure of exoâ€rhamnogalacturonan lyase from Penicillium chrysogenum as a member of polysaccharide lyase family 26. FEBS Letters, 2018, 592, 1378-1388.	2.8	16
44	Anaerobic respiration coupled with mitochondrial fatty acid synthesis in wax ester fermentation by Euglena gracilis. FEBS Letters, 2018, 592, 4020-4027.	2.8	16
45	Expression and Characterization of Recombinant GH11 Xylanase from Thermotolerant Streptomyces sp. SWU10. Applied Biochemistry and Biotechnology, 2014, 172, 436-446.	2.9	15
46	Identification and characterization of ferulic acid esterase from Penicillium chrysogenum 31B: de-esterification of ferulic acid decorated with l-arabinofuranoses and d-galactopyranoses in sugar beet pectin. Enzyme and Microbial Technology, 2019, 131, 109380.	3.2	15
47	High-resolution structure of exo-arabinanase fromPenicillium chrysogenum. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 415-422.	2.5	14
48	Identification and characterization of three Penicillium chrysogenum Î±-l-arabinofuranosidases (PcABF43B, PcABF51C, and AFQ1) with different specificities toward arabino-oligosaccharides. Enzyme and Microbial Technology, 2015, 73-74, 65-71.	3.2	14
49	Molecular characterization of a Penicillium chrysogenum exo-rhamnogalacturonan lyase that is structurally distinct from other polysaccharide lyase family proteins. Applied Microbiology and Biotechnology, 2015, 99, 8515-8525.	3.6	14
50	Characterization of three GH35 Î²-galactosidases, enzymes able to shave galactosyl residues linked to rhamnogalacturonan in pectin, from Penicillium chrysogenum 31B. Applied Microbiology and Biotechnology, 2020, 104, 1135-1148.	3.6	13
51	Molecular cloning and nucleotide sequence of the gene encoding phosphate-inducible pectin lyase of Bacillus subtilis. FEBS Letters, 1996, 398, 269-273.	2.8	11
52	Identification and characterization of GH62 bacterial Î±-l-arabinofuranosidase from thermotolerant Streptomyces sp. SWU10 that preferentially degrades branched l-arabinofuranoses in wheat arabinoxylan. Enzyme and Microbial Technology, 2018, 112, 22-28.	3.2	10
53	Identification and characterization of the first Î²-1,3-d-xylosidase from a gram-positive bacterium, Streptomyces sp. SWU10. Enzyme and Microbial Technology, 2018, 112, 72-78.	3.2	10
54	Biochemical and structural characterization of a novel 4â€Oâ€Î±â€<scp>l</scp>â€rhamnosylâ€Î²â€<scp>d</scp>â€glucuronidase from Fusarium oxysporum. FEBS Journal, 2021, 288, 4918-4938.	4.7	9

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55	Naringin lauroyl ester inhibits lipopolysaccharide-induced activation of nuclear factor Î¹B signaling in macrophages. Bioscience, Biotechnology and Biochemistry, 2016, 80, 1403-1409.	1.3	7
56	Structural and functional analysis of gum arabic l-rhamnose-Î±-1,4-d-glucuronate lyase establishes a novel polysaccharide lyase family. Journal of Biological Chemistry, 2021, 297, 101001.	3.4	7
57	Homogalacturonan and xylogalacturonan region specificity of self-cloning vector-expressed pectin methylesterases (AoPME1â€“3) in Aspergillus oryzae. Enzyme and Microbial Technology, 2021, 150, 109894.	3.2	5
58	NADPHâ€toâ€NADH conversion by mitochondrial transhydrogenase is indispensable for sustaining anaerobic metabolism in Euglena gracilis. FEBS Letters, 2021, , .	2.8	5
59	Molecular Identification of a Cold-adapted Endo-arabinanase of Penicillium chrysogenum. Journal of Applied Glycoscience (1999), 2005, 52, 369-372.	0.7	4
60	Substrate-recognition mechanism of tomato Î²-galactosidase 4 using X-ray crystallography and docking simulation. Planta, 2020, 252, 72.	3.2	3
61	Gelation of konjac glucomannan by acetylmannan esterases from Aspergillus oryzae. Enzyme and Microbial Technology, 2022, 160, 110075.	3.2	3
62	Enzymic Pectin Extraction from Protopectins Using Microbial Protopectinases. Process Biochemistry, 1995, 30, 403-409.	0.2	1
63	Biotechnological Processing of Textiles: Refinement of Cotton Fiber Using Protopectin-solubilizing Enayme. Journal of Fiber Science and Technology, 1999, 55, P127-P131.	0.0	0