

# Tatsuji Sakamoto

## List of Publications by Year in descending order

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63  
papers

1,724  
citations

279798

23  
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315739

38  
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63  
all docs

63  
docs citations

63  
times ranked

1612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gelation of konjac glucomannan by acetylmannan esterases from <i>Aspergillus oryzae</i> . <i>Enzyme and Microbial Technology</i> , 2022, 160, 110075.	3.2	3
2	Biochemical and structural characterization of a novel 4- $\alpha$ -L-rhamnosyl-2- $\alpha$ -D-glucuronidase from <i>Fusarium oxysporum</i> . <i>FEBS Journal</i> , 2021, 288, 4918-4938.	4.7	9
3	Structural and functional analysis of gum arabic l-rhamnose-1,4-d-glucuronate lyase establishes a novel polysaccharide lyase family. <i>Journal of Biological Chemistry</i> , 2021, 297, 101001.	3.4	7
4	Homogalacturonan and xylogalacturonan region specificity of self-cloning vector-expressed pectin methylesterases (AoPME1 <sup>3</sup> ) in <i>Aspergillus oryzae</i> . <i>Enzyme and Microbial Technology</i> , 2021, 150, 109894.	3.2	5
5	NADPH $\rightarrow$ NADH conversion by mitochondrial transhydrogenase is indispensable for sustaining anaerobic metabolism in <i>Euglena gracilis</i> . <i>FEBS Letters</i> , 2021, , .	2.8	5
6	Determination of chemical structure of pea pectin by using pectinolytic enzymes. <i>Carbohydrate Polymers</i> , 2020, 231, 115738.	10.2	27
7	Characterization of three GH35 $\beta$ -galactosidases, enzymes able to shave galactosyl residues linked to rhamnagalacturonan in pectin, from <i>Penicillium chrysogenum</i> 31B. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 1135-1148.	3.6	13
8	Substrate-recognition mechanism of tomato $\beta$ -galactosidase 4 using X-ray crystallography and docking simulation. <i>Planta</i> , 2020, 252, 72.	3.2	3
9	Identification and characterization of ferulic acid esterase from <i>Penicillium chrysogenum</i> 31B: de-esterification of ferulic acid decorated with l-arabinofuranoses and d-galactopyranoses in sugar beet pectin. <i>Enzyme and Microbial Technology</i> , 2019, 131, 109380.	3.2	15
10	Crystal structure of exo $\alpha$ -rhamnagalacturonan lyase from <i>Penicillium chrysogenum</i> as a member of polysaccharide lyase family 26. <i>FEBS Letters</i> , 2018, 592, 1378-1388.	2.8	16
11	Identification and characterization of GH62 bacterial $\beta$ -l-arabinofuranosidase from thermotolerant <i>Streptomyces</i> sp. SWU10 that preferentially degrades branched l-arabinofuranoses in wheat arabinoxylan. <i>Enzyme and Microbial Technology</i> , 2018, 112, 22-28.	3.2	10
12	Identification and characterization of the first $\beta$ -1,3-d-xylosidase from a gram-positive bacterium, <i>Streptomyces</i> sp. SWU10. <i>Enzyme and Microbial Technology</i> , 2018, 112, 72-78.	3.2	10
13	Anaerobic respiration coupled with mitochondrial fatty acid synthesis in wax ester fermentation by <i>Euglena gracilis</i> . <i>FEBS Letters</i> , 2018, 592, 4020-4027.	2.8	16
14	Lactic Acid Bacteria from Kefir Increase Cytotoxicity of Natural Killer Cells to Tumor Cells. <i>Foods</i> , 2018, 7, 48.	4.3	28
15	Identification of a novel <i>Penicillium chrysogenum</i> rhamnagalacturonan rhamnohydrolase and the first report of a rhamnagalacturonan rhamnohydrolase gene. <i>Enzyme and Microbial Technology</i> , 2017, 98, 76-85.	3.2	20
16	Purification, characterization, and overexpression of an endo-1,4- $\beta$ -mannanase from thermotolerant <i>Bacillus</i> sp. SWU60. <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 53.	3.6	19
17	A novel $\beta$ -galactosidase from <i>Fusarium oxysporum</i> and its application in determining the structure of the gum arabic side chain. <i>Enzyme and Microbial Technology</i> , 2017, 103, 25-33.	3.2	22
18	Physiological functions of pyruvate:NADP <sup>+</sup> oxidoreductase and 2-oxoglutarate decarboxylase in <i>Euglena gracilis</i> under aerobic and anaerobic conditions. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1386-1393.	1.3	17

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19	Ferulic acid and its water-soluble derivatives inhibit nitric oxide production and inducible nitric oxide synthase expression in rat primary astrocytes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1607-1611.	1.3	21
20	Naringin lauroyl ester inhibits lipopolysaccharide-induced activation of nuclear factor $\kappa$ B signaling in macrophages. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 1403-1409.	1.3	7
21	Water-soluble ferulic acid derivatives improve amyloid- $\beta$ -induced neuronal cell death and dysmnesia through inhibition of amyloid- $\beta$ aggregation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 547-553.	1.3	25
22	Biochemical Characterization and Overexpression of an Endo-rhamnogalacturonan Lyase from <i>Penicillium chrysogenum</i> . <i>Molecular Biotechnology</i> , 2015, 57, 539-548.	2.4	19
23	Identification and characterization of three <i>Penicillium chrysogenum</i> $\beta$ -L-arabinofuranosidases (PcABF43B, PcABF51C, and AFQ1) with different specificities toward arabino-oligosaccharides. <i>Enzyme and Microbial Technology</i> , 2015, 73-74, 65-71.	3.2	14
24	Alteration of Wax Ester Content and Composition in <i>Euglena gracilis</i> with Gene Silencing of $\beta$ -ketoacyl-CoA Thiolase Isozymes. <i>Lipids</i> , 2015, 50, 483-492.	1.7	32
25	Molecular characterization of a <i>Penicillium chrysogenum</i> exo-rhamnogalacturonan lyase that is structurally distinct from other polysaccharide lyase family proteins. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8515-8525.	3.6	14
26	A novel GH43 $\beta$ -L-arabinofuranosidase of <i>Penicillium chrysogenum</i> that preferentially degrades single-substituted arabinosyl side chains in arabinan. <i>Enzyme and Microbial Technology</i> , 2014, 58-59, 80-86.	3.2	24
27	Expression and Characterization of Recombinant GH11 Xylanase from Thermotolerant <i>Streptomyces</i> sp. SWU10. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 436-446.	2.9	15
28	Identification of an exo- $\beta$ -1,3-d-galactanase from <i>Fusarium oxysporum</i> and the synergistic effect with related enzymes on degradation of type II arabinogalactan. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9685-9694.	3.6	16
29	Purification, Characterization of GH11 Endo- $\beta$ -1,4-xylanase from Thermotolerant <i>Streptomyces</i> sp. SWU10 and Overexpression in <i>Pichia pastoris</i> KM71H. <i>Molecular Biotechnology</i> , 2013, 54, 37-46.	2.4	18
30	Peculiarities and applications of galactanolytic enzymes that act on type I and II arabinogalactans. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 5201-5213.	3.6	22
31	Biochemical characterization of a GH53 endo- $\beta$ -1,4-galactanase and a GH35 exo- $\beta$ -1,4-galactanase from <i>Penicillium chrysogenum</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2895-2906.	3.6	31
32	Substrate specificity and gene expression of two <i>Penicillium chrysogenum</i> $\beta$ -L-arabinofuranosidases (AFQ1 and AFS1) belonging to glycoside hydrolase families 51 and 54. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1121-1130.	3.6	34
33	Immunostimulatory Activity of Polysaccharides Isolated from <i>Caulerpa lentillifera</i> on Macrophage Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 501-505.	1.3	71
34	Inhibition of Nitric Oxide Production and Inducible Nitric Oxide Synthase Expression by a Polymethoxyflavone from Young Fruits of <i>Citrus unshiu</i> in Rat Primary Astrocytes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1843-1848.	1.3	43
35	Induction of Apoptosis in MCF-7 Cells by $\beta$ -1,3-Xylooligosaccharides Prepared from <i>Caulerpa lentillifera</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1032-1034.	1.3	48
36	Synthesis of highly water-soluble feruloyl diglycerols by esterification of an <i>Aspergillus niger</i> feruloyl esterase. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 615-622.	3.6	21

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37	Biochemical characterization and gene expression of two endo-arabinanases from <i>Penicillium chrysogenum</i> 31B. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1087-1096.	3.6	23
38	Purification, characterization and gene cloning of two forms of a thermostable endo-xylanase from <i>Streptomyces</i> sp. SWU10. <i>Process Biochemistry</i> , 2011, 46, 2255-2262.	3.7	36
39	Identification of a GH62 $\beta$ -L-arabinofuranosidase specific for arabinoxytan produced by <i>Penicillium chrysogenum</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 137-146.	3.6	57
40	Characterization of an exo- $\beta$ -1,3-d-galactanase from <i>Sphingomonas</i> sp. 24T and its application to structural analysis of larch wood arabinogalactan. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1701-1710.	3.6	20
41	High-resolution structure of exo-arabinanase from <i>Penicillium chrysogenum</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011, 67, 415-422.	2.5	14
42	Identification of two GH27 bifunctional proteins with $\beta$ -L-arabinopyranosidase/ $\beta$ -D-galactopyranosidase activities from <i>Fusarium oxysporum</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1115-1124.	3.6	30
43	Purification, Characterization, and Overexpression of Thermophilic Pectate Lyase of <i>Bacillus</i> sp. RN1 Isolated from a Hot Spring in Thailand. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 268-273.	1.3	30
44	Enzymatic Synthesis of Hydroxycinnamic Acid Glycerol Esters Using Type A Feruloyl Esterase from <i>Aspergillus niger</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2606-2609.	1.3	23
45	Characterization of <i>Fusarium oxysporum</i> $\beta$ -1,6-Galactanase, an Enzyme That Hydrolyzes Larch Wood Arabinogalactan. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3109-3112.	3.1	26
46	Esterification of ferulic acid with polyols using a ferulic acid esterase from <i>Aspergillus niger</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1071-1079.	2.4	67
47	Efficient Extraction of Ferulic Acid from Sugar Beet Pulp Using the Culture Supernatant of <i>Penicillium chrysogenum</i> . <i>Journal of Applied Glycoscience</i> (1999), 2005, 52, 115-120.	0.7	17
48	Molecular Identification of a Cold-adapted Endo-arabinanase of <i>Penicillium chrysogenum</i> . <i>Journal of Applied Glycoscience</i> (1999), 2005, 52, 369-372.	0.7	4
49	Transglycosylation catalyzed by a <i>Penicillium chrysogenum</i> exo-1,5- $\beta$ -L-arabinanase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004, 1674, 85-90.	2.4	17
50	Molecular characterization of a <i>Penicillium chrysogenum</i> exo-1,5- $\beta$ -L-arabinanase that is structurally distinct from other arabinan-degrading enzymes. <i>FEBS Letters</i> , 2004, 560, 199-204.	2.8	33
51	Exo-Arabinanase of <i>Penicillium chrysogenum</i> Able To Release Arabinobiose from $\beta$ -1,5-L-Arabinan. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3319-3321.	3.1	52
52	Biotechnological Processing of Textiles: Refinement of Cotton Fiber Using Protopectin-solubilizing Enzyme. <i>Journal of Fiber Science and Technology</i> , 1999, 55, P127-P131.	0.0	0
53	Molecular Cloning and Nucleotide Sequence of an Endo-1,5- $\alpha$ -L-Arabinase Gene from <i>Bacillus Subtilis</i> . <i>FEBS Journal</i> , 1997, 245, 708-714.	0.2	23
54	Molecular cloning and nucleotide sequence of the gene encoding phosphate-inducible pectin lyase of <i>Bacillus subtilis</i> . <i>FEBS Letters</i> , 1996, 398, 269-273.	2.8	11

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55	Analysis of structure of sugar-beet pectin by enzymatic methods. <i>Phytochemistry</i> , 1995, 39, 821-823.	2.9	51
56	Enzymic pectin extraction from protopectins using microbial protopectinases. <i>Process Biochemistry</i> , 1995, 30, 403-409.	3.7	19
57	Enzymic Pectin Extraction from Protopectins Using Microbial Protopectinases. <i>Process Biochemistry</i> , 1995, 30, 403-409.	0.2	1
58	Purification, Characterization, and Production of Two Pectic Transeliminases with Protopectinase Activity from <i>Bacillus subtilis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1994, 58, 353-358.	1.3	44
59	Protopectinase-T: a rhamnogalacturonase able to solubilize protopectin from sugar beet. <i>Carbohydrate Research</i> , 1994, 259, 77-91.	2.3	29
60	Purification and Characterization of a Rhamnogalacturonase with Protopectinase Activity from <i>Trametes sanguinea</i> . <i>FEBS Journal</i> , 1994, 226, 285-291.	0.2	23
61	â€ˆPectin, Pectinase, and Protopectinase: Production,â€ˆ Properties, and Applications. <i>Advances in Applied Microbiology</i> , 1993, 39, 213-294.	2.4	291
62	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. <i>Bioscience, Biotechnology and Biochemistry</i> , 1993, 57, 1832-1837.	1.3	22
63	Studies on enzymes produced by <i>Bacillus</i> . Part III. Purification and some properties of a protopectin-solubilizing enzyme that has potent activity on sugar beet protopectin.. <i>Agricultural and Biological Chemistry</i> , 1990, 54, 879-889.	0.3	41