Toki Taira

List of Publications by Year
in descending order

64	1,211	394421 19	414414 32
papers	citations	h-index	g-index

65	65	65	1243
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GH-16 Type Î²-1,3-Glucanase from <i>Lysobacter </i>sp. MK9-1 Enhances Antifungal Activity of GH-19 Type Chitinase, and Its Glucan-binding Domain Binds to Fungal Cell-wall. Journal of Applied Glycoscience (1999), 2022, 69, 49-56.	0.7	5
2	Enhancement of the Antifungal Activity of Chitinase by Palmitoylation and the Synergy of Palmitoylated Chitinase with Amphotericin B. ACS Infectious Diseases, 2022, 8, 1051-1061.	3.8	8
3	Structure, mechanism, and phylogeny of LysM-chitinase conjugates specifically found in fern plants. Plant Science, 2022, 321, 111310.	3.6	2
4	Structural Analysis and Construction of a Thermostable Antifungal Chitinase. Applied and Environmental Microbiology, 2022, 88, .	3.1	5
5	Preparation of amphotericin B-loaded hybrid liposomes and the integration of chitin-binding proteins for enhanced antifungal activity. Journal of Bioscience and Bioengineering, 2022, 134, 259-263.	2.2	2
6	Cloning, expression, and characterization of a GH 19-type chitinase with antifungal activity from Lysobacter sp. MK9-1. Journal of Bioscience and Bioengineering, 2021, 131, 348-355.	2.2	17
7	Some characteristics of flavor of moromi vinegar fermented by a lactic acid bacterium and its effects on obesity. Journal for the Integrated Study of Dietary Habits, 2021, 31, 221-228.	0.0	0
8	cDNA cloning, expression, and antifungal activity of chitinase from Ficus microcarpa latex: difference in antifungal action of chitinase with and without chitin-binding domain. Planta, 2021, 253, 120.	3.2	9
9	Orthogonal Enzymatic Conjugation Reactions Create Chitin Binding Domain Grafted Chitinase Polymers with Enhanced Antifungal Activity. Bioconjugate Chemistry, 2021, 32, 1688-1698.	3.6	9
10	Antifungal activities of LysM-domain multimers and their fusion chitinases. International Journal of Biological Macromolecules, 2020, 154, 1295-1302.	7.5	13
11	Phenolic acid decarboxylase of Aspergillus luchuensis plays a crucial role in 4-vinylguaiacol production during awamori brewing. Journal of Bioscience and Bioengineering, 2020, 130, 352-359.	2.2	3
12	Characterization and induction of phenolic acid decarboxylase from Aspergillus luchuensis. Journal of Bioscience and Bioengineering, 2018, 126, 162-168.	2.2	35
13	Unique GH18 chitinase from Euglena gracilis: full-length cDNA cloning and characterization of its catalytic domain. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1090-1100.	1.3	5
14	Comparative multi-omics analysis reveals diverse latex-based defense strategies against pests among latex-producing organs of the fig tree (Ficus carica). Planta, 2018, 247, 1423-1438.	3.2	31
15	Structure and Enzymatic Properties of a Two-Domain Family GH19 Chitinase from Japanese Cedar (Cryptomeria japonica) Pollen. Journal of Agricultural and Food Chemistry, 2018, 66, 5699-5706.	5.2	4
16	Purification, cDNA cloning, and characterization of plant chitinase with a novel domain combination from lycophyte Selaginella doederleinii. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1742-1752.	1.3	4
17	Mode of action and specificity of a chitinase from unicellular microalgae, Euglena gracilis. Plant Molecular Biology, 2018, 97, 553-564.	3.9	1
18	Crystal structure and thermodynamic dissection of chitin oligosaccharide binding to the LysM module of chitinase-A from Pteris ryukyuensis. Biochemical and Biophysical Research Communications, 2017, 494, 736-741.	2.1	12

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19	Functional analyses of chitinases in the moss Physcomitrella patens: chitin oligosaccharide-induced gene expression and enzymatic characterization. Bioscience, Biotechnology and Biochemistry, 2016, 80, 2347-2356.	1.3	3
20	Transcriptome and proteome analyses provide insight into laticifer's defense of Euphorbia tirucalli against pests. Plant Physiology and Biochemistry, 2016, 108, 434-446.	5.8	16
21	Crystal structures and inhibitor binding properties of plant classÂV chitinases: the cycad enzyme exhibits unique structural and functional features. Plant Journal, 2015, 82, 54-66.	5.7	16
22	Purification, cDNA cloning, and characterization of LysM-containing plant chitinase from horsetail (Equisetum arvense). Bioscience, Biotechnology and Biochemistry, 2015, 79, 1296-1304.	1.3	18
23	A class III chitinase without disulfide bonds from the fern, Pteris ryukyuensis: crystal structure and ligand-binding studies. Planta, 2015, 242, 895-907.	3.2	14
24	The mannobiose-forming exo-mannanase involved in a new mannan catabolic pathway in Bacteroides fragilis. Archives of Microbiology, 2014, 196, 17-23.	2.2	34
25	Crystal structure of a â€œlooplessâ€•GH19 chitinase in complex with chitin tetrasaccharide spanning the catalytic center. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 793-802.	2.3	31
26	Interaction of di-N-acetylchitobiosyl moranoline with a family GH19 chitinase from moss, Bryum coronatum. Glycobiology, 2014, 24, 945-955.	2.5	2
27	Crystallization and preliminary X-ray diffraction analysis of an active-site mutant of `loopless' family GH19 chitinase fromBryum coronatumin a complex with chitotetraose. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1360-1362.	0.7	2
28	Chitin-Related Enzymes in Agro-Biosciences. Current Drug Targets, 2012, 13, 442-470.	2.1	43
29	Merozoite surface protein-1 of Plasmodium yoelii fused via an oligosaccharide moiety of cholera toxin B subunit glycoprotein expressed in yeast induced protective immunity against lethal malaria infection in mice. Vaccine, 2012, 30, 948-958.	3.8	15
30	Physicochemically stable cholera toxin B subunit pentamer created by peripheral molecular constraints imposed by de novo-introduced intersubunit disulfide crosslinks. Vaccine, 2012, 30, 4225-4232.	3.8	15
31	Backbone chemical shifts assignments, secondary structure, and ligand binding of a family GH-19 chitinase from moss, Bryum coronatum. Biomolecular NMR Assignments, 2012, 6, 157-161.	0.8	8
32	Antifungal Activity of Recombinant Class V Chitinases from Nicotiana tabacum and Arabidopsis thaliana. Journal of Applied Glycoscience (1999), 2012, 59, 47-50.	0.7	5
33	An endogenous factor enhances ferulic acid decarboxylation catalyzed by phenolic acid decarboxylase from Candida guilliermondii. AMB Express, 2012, 2, 4.	3.0	14
34	Comparative study of gene expression and major proteinsâ€™ function of laticifers in lignified and unlignified organs of mulberry. Planta, 2012, 235, 589-601.	3.2	22
35	Purification and properties of phenolic acid decarboxylase from Candida guilliermondii. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 55-62.	3.0	24
36	Chitin oligosaccharide binding to a family GH19 chitinase from the moss Bryumâ€ƒcoronatum. FEBS Journal, 2011, 278, 3991-4001.	4.7	40

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37	Application of an acid proteinase from Monascus purpureus to reduce antigenicity of bovine milk whey protein. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1485-1492.	3.0	10
38	Reducing the antigenicity of milk whey protein using acid proteinases from Monascus pilosus. Process Biochemistry, 2011, 46, 806-810.	3.7	14
39	Highly thermostable chitinase from pineapple: Cloning, expression, and enzymatic properties. Process Biochemistry, 2011, 46, 695-700.	3.7	18
40	Cloning and characterization of a small family 19 chitinase from moss (Bryum coronatum). Glycobiology, 2011, 21, 644-654.	2.5	49
41	Purification and characterisation of two extracellular acid proteinases from Monascus pilosus. Food Chemistry, 2010, 121, 1216-1224.	8.2	15
42	Transglycosylation reaction catalyzed by a class V chitinase from cycad, Cycas revoluta: A study involving site-directed mutagenesis, HPLC, and real-time ESI-MS. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 668-675.	2.3	44
43	Structures and Antifungal Activity of Plant Chitinases. Journal of Applied Glycoscience (1999), 2010, 57, 167-176.	0.7	27
44	Structure and Function of Family 50 Carbohydrate Binding Modules (LysM Domains) from Pteris ryukyuensis Chitinase-A. Journal of Applied Glycoscience (1999), 2009, 56, 97-104.	0.7	0
45	A plant class V chitinase from a cycad (Cycas revoluta): Biochemical characterization, cDNA isolation, and posttranslational modification. Glycobiology, 2009, 19, 1452-1461.	2.5	45
46	Title is missing!. Kagaku To Seibutsu, 2009, 47, 676-677.	0.0	0
47	LysM Domains from Pteris ryukyuensis Chitinase-A. Journal of Biological Chemistry, 2008, 283, 5178-5187.	3.4	106
48	A new type of plant chitinase containing LysM domains from a fern (Pteris ryukyuensis): Roles of LysM domains in chitin binding and antifungal activity. Glycobiology, 2008, 18, 414-423.	2.5	67
49	Purification and characterization of extracellular cysteine protease inhibitor, ECPI-2, from Chlorella sp.. Journal of Bioscience and Bioengineering, 2006, 101, 166-171.	2.2	9
50	Purification, Characterization, and Antifungal Activity of Chitinases from Pineapple (Ananas comosus) Leaf. Bioscience, Biotechnology and Biochemistry, 2005, 69, 189-196.	1.3	63
51	Characterization and Antifungal Activity of Gazyumaru (Ficus microcarpa) Latex Chitinases: Both the Chitin-Binding and the Antifungal Activities of Class I Chitinase Are Reinforced with Increasing Ionic Strength. Bioscience, Biotechnology and Biochemistry, 2005, 69, 811-818.	1.3	64
52	Tissue Distribution, Synthesis Stage, and Ethylene Induction of Pineapple (Ananas comosus) Chitinases. Bioscience, Biotechnology and Biochemistry, 2005, 69, 852-854.	1.3	20
53	Isolation and Characterization of Pectin from Pericarp of Citrus depressa. Journal of Applied Glycoscience (1999), 2004, 51, 19-25.	0.7	6
54	Molecular Cloning, Functional Expression, and Mutagenesis of cDNA Encoding Class I Chitinase from Rye (Secale cereale) Seeds. Bioscience, Biotechnology and Biochemistry, 2004, 68, 324-332.	1.3	19

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55	Purification and characterization of a new type of serine carboxypeptidase from Monascus purpureus. Journal of Industrial Microbiology and Biotechnology, 2004, 31, 23-28.	3.0	13
56	Purification and characterization of a high molecular mass serine carboxypeptidase from Monascus pilosus. Journal of Industrial Microbiology and Biotechnology, 2004, 31, 572-580.	3.0	11
57	An Antihemolysin from Pineapple Stem.. Journal of the Japanese Society for Food Science and Technology, 2003, 50, 141-144.	0.1	1
58	An alkaline protease inhibitor from Aspergillus oryzae W-1. Journal of the Japanese Society for Food Science and Technology, 2003, 50, 327-330.	0.1	0
59	Antifungal Activity of Rye (Secale cereale) Seed Chitinases: the Different Binding Manner of Class I and Class II Chitinases to the Fungal Cell Walls. Bioscience, Biotechnology and Biochemistry, 2002, 66, 970-977.	1.3	70
60	Molecular Cloning, Functional Expression, and Mutagenesis of cDNA Encoding Rye (Secale cereale) Seed Chitinase-c. Bioscience, Biotechnology and Biochemistry, 2002, 66, 277-284.	1.3	20
61	Localization, Accumulation, and Antifungal Activity of Chitinases in Rye (Secale cereale) Seed. Bioscience, Biotechnology and Biochemistry, 2001, 65, 2710-2718.	1.3	21
62	Purification and Characterization of Extracellular Cysteine Protease Inhibitor from Chlorella sp.. Food Science and Technology Research, 2000, 6, 161-165.	0.6	2
63	Isolation and Antimicrobial Activity of Feruloyl Oligosaccharide Ester from Pineapple Stem Residues.. Journal of the Japanese Society for Food Science and Technology, 2000, 47, 23-29.	0.1	4
64	Isolation and Characterization of Chitinase Isoforms from the Bulbs of Four Species of the Genus Tulipa.. Bioscience, Biotechnology and Biochemistry, 1998, 62, 584-587.	1.3	6