# 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 | LysM Domains from Pteris ryukyuensis Chitinase-A. Journal of Biological Chemistry, 2008, 283, 5178-5187. | 3.4 | 106 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Purification, Characterization, and Antifungal Activity of Chitinases from Pineapple (Ananas comosus) Leaf. Bioscience, Biotechnology and Biochemistry, 2005, 69, 189-196. | 1.3 | 63 |
| 6 | Cloning and characterization of a small family 19 chitinase from moss (Bryum coronatum). Glycobiology, 2011, 21, 644-654. | 2.5 | 49 |
| 7 | 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 |
| 8 | 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 |
| 9 | Chitin-Related Enzymes in Agro-Biosciences. Current Drug Targets, 2012, 13, 442-470. | 2.1 | 43 |
| 10 | Chitin oligosaccharide binding to a family GH19 chitinase from the moss Bryumâ€ƒcoronatum. FEBS Journal, 2011, 278, 3991-4001. | 4.7 | 40 |
| 11 | Characterization and induction of phenolic acid decarboxylase from Aspergillus luchuensis. Journal of Bioscience and Bioengineering, 2018, 126, 162-168. | 2.2 | 35 |
| 12 | 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 |
| 13 | 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 |
| 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 | Structures and Antifungal Activity of Plant Chitinases. Journal of Applied Glycoscience (1999), 2010, 57, 167-176. | 0.7 | 27 |
| 16 | Purification and properties of phenolic acid decarboxylase from Candida guilliermondii. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 55-62. | 3.0 | 24 |
| 17 | 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 |
| 18 | Localization, Accumulation, and Antifungal Activity of Chitinases in Rye (Secale cereale) Seed. Bioscience, Biotechnology and Biochemistry, 2001, 65, 2710-2718. | 1.3 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Tissue Distribution, Synthesis Stage, and Ethylene Induction of Pineapple (Ananas comosus) Chitinases. Bioscience, Biotechnology and Biochemistry, 2005, 69, 852-854. | 1.3 | 20 |
| 21 | 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 |
| 22 | Highly thermostable chitinase from pineapple: Cloning, expression, and enzymatic properties. Process Biochemistry, 2011, 46, 695-700. | 3.7 | 18 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | Purification and characterisation of two extracellular acid proteinases from Monascus pilosus. Food Chemistry, 2010, 121, 1216-1224. | 8.2 | 15 |
| 28 | 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 |
| 29 | 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 |
| 30 | Reducing the antigenicity of milk whey protein using acid proteinases from Monascus pilosus. Process Biochemistry, 2011, 46, 806-810. | 3.7 | 14 |
| 31 | An endogenous factor enhances ferulic acid decarboxylation catalyzed by phenolic acid decarboxylase from Candida guilliermondii. AMB Express, 2012, 2, 4. | 3.0 | 14 |
| 32 | 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 |
| 33 | 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 |
| 34 | Antifungal activities of LysM-domain multimers and their fusion chitinases. International Journal of Biological Macromolecules, 2020, 154, 1295-1302. | 7.5 | 13 |
| 35 | 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 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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 | 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 |
| 39 | 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 |
| 40 | Orthogonal Enzymatic Conjugation Reactions Create Chitin Binding Domain Grafted Chitinase Polymers with Enhanced Antifungal Activity. Bioconjugate Chemistry, 2021, 32, 1688-1698. | 3.6 | 9 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Isolation and Characterization of Pectin from Pericarp of Citrus depressa. Journal of Applied Glycoscience (1999), 2004, 51, 19-25. | 0.7 | 6 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Structural Analysis and Construction of a Thermostable Antifungal Chitinase. Applied and Environmental Microbiology, 2022, 88, . | 3.1 | 5 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | Purification and Characterization of Extracellular Cysteine Protease Inhibitor from Chlorella sp.. Food Science and Technology Research, 2000, 6, 161-165. | 0.6 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | 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 |
| 56 | Interaction of di-N-acetylchitobiosyl moranoline with a family GH19 chitinase from moss, Bryum coronatum. Glycobiology, 2014, 24, 945-955. | 2.5 | 2 |
| 57 | Structure, mechanism, and phylogeny of LysM-chitinase conjugates specifically found in fern plants. Plant Science, 2022, 321, 111310. | 3.6 | 2 |
| 58 | 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 |
| 59 | An Antihemolysin from Pineapple Stem.. Journal of the Japanese Society for Food Science and Technology, 2003, 50, 141-144. | 0.1 | 1 |
| 60 | Mode of action and specificity of a chitinase from unicellular microalgae, Euglena gracilis. Plant Molecular Biology, 2018, 97, 553-564. | 3.9 | 1 |
| 61 | 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 |
| 62 | 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 |
| 63 | Title is missing!. Kagaku To Seibutsu, 2009, 47, 676-677. | 0.0 | 0 |
| 64 | 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 |