

Katsuro Yaoi

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4328619/katsuro-yaoi-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

59
papers

1,611
citations

24
h-index

39
g-index

62
ext. papers

1,800
ext. citations

4.1
avg, IF

4.64
L-index

#	Paper	IF	Citations
59	Enzymatic degradation of xyloglucans by <i>Aspergillus</i> species: a comparative view of this genus. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 2701-2711	5.7	2
58	Isolation and characterization of <i>Lipomyces starkeyi</i> mutants with greatly increased lipid productivity following UV irradiation. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 131, 613-621	3.3	6
57	Characterization of an extracellular β -xylosidase involved in xyloglucan degradation in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2021 , 106, 675	5.7	0
56	Lipid metabolism of the oleaginous yeast <i>Lipomyces starkeyi</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 6141-6148	5.7	21
55	Identification and characterization of two fatty acid elongases in <i>Lipomyces starkeyi</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 2537-2544	5.7	2
54	A novel electroporation procedure for highly efficient transformation of <i>Lipomyces starkeyi</i> . <i>Journal of Microbiological Methods</i> , 2020 , 169, 105816	2.8	11
53	Identification and characterization of β -xylosidase involved in xyloglucan degradation in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 201-210	5.7	8
52	Identification and characterization of <i>Pseudozyma antarctica</i> $\Delta 12$ fatty acid desaturase and its utilization for the production of polyunsaturated fatty acids. <i>Journal of Bioscience and Bioengineering</i> , 2020 , 130, 604-609	3.3	1
51	Identification and characterization of two xyloglucan-specific endo-1,4-glucanases in <i>Aspergillus oryzae</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 8761-8773	5.7	4
50	Whole-Genome Sequence of GB-01, an Industrial Strain for Food Colorant Production. <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	5
49	Cooperation between β -galactosidase and an isoprimeverose-producing oligoxyloglucan hydrolase is key for xyloglucan degradation in <i>Aspergillus niger</i> . <i>FEBS Journal</i> , 2019 , 286, 3182-3193	5.7	6
48	A novel isoprimeverose-producing enzyme from <i>Aspergillus niger</i> is active with low concentrations of xyloglucan oligosaccharides. <i>FEBS Open Bio</i> , 2019 , 9, 92-100	2.7	3
47	Crystal structure and substrate recognition mechanism of <i>Aspergillus oryzae</i> isoprimeverose-producing enzyme. <i>Journal of Structural Biology</i> , 2019 , 205, 84-90	3.4	5
46	Rational protein design for thermostabilization of glycoside hydrolases based on structural analysis. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8677-8684	5.7	10
45	GH30 Glucuronoxylan-Specific Xylanase from <i>Streptomyces turgidiscabies</i> C56. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	24
44	Identification and characterization of $\Delta 12$ and $\Delta 12/\Delta 15$ bifunctional fatty acid desaturases in the oleaginous yeast <i>Lipomyces starkeyi</i> . <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8817-8826	5.7	7
43	Crystal structure of metagenomic β -xylosidase/ β -arabinofuranosidase activated by calcium. <i>Journal of Biochemistry</i> , 2017 , 162, 173-181	3.1	15

42	Characterization of xylan in the early stages of secondary cell wall formation in tobacco bright yellow-2 cells. <i>Carbohydrate Polymers</i> , 2017 , 176, 381-391	10.3	2
41	Improved thermostability of a metagenomic glucose-tolerant β glucosidase based on its X-ray crystal structure. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 8353-8363	5.7	9
40	Screening, identification, and characterization of a novel saccharide-stimulated β glucosidase from a soil metagenomic library. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 633-646	5.7	28
39	GH74 Xyloglucanases: Structures and Modes of Activity. <i>Trends in Glycoscience and Glycotechnology</i> , 2016 , 28, E63-E70	0.1	10
38	Identification of the Gene Encoding Isoprimeverose-producing Oligoxyloglucan Hydrolase in <i>Aspergillus oryzae</i> . <i>Journal of Biological Chemistry</i> , 2016 , 291, 5080-7	5.4	18
37	GH74 Xyloglucanases: Structures and Modes of Activity. <i>Trends in Glycoscience and Glycotechnology</i> , 2016 , 28, J63-J70	0.1	0
36	Crystal structure and identification of a key amino acid for glucose tolerance, substrate specificity, and transglycosylation activity of metagenomic β glucosidase Td2F2. <i>FEBS Journal</i> , 2016 , 283, 2340-53	5.7	39
35	Improvement of thermostability and activity of <i>Trichoderma reesei</i> endo-xylanase Xyn III on insoluble substrates. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8043-51	5.7	12
34	Screening, identification, and characterization of β xylosidase from a soil metagenome. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 393-9	3.3	22
33	Generation and structural validation of a library of diverse xyloglucan-derived oligosaccharides, including an update on xyloglucan nomenclature. <i>Carbohydrate Research</i> , 2015 , 402, 56-66	2.9	88
32	The impact of a single-nucleotide mutation of bgl2 on cellulase induction in a <i>Trichoderma reesei</i> mutant. <i>Biotechnology for Biofuels</i> , 2015 , 8, 230	7.8	27
31	Screening, identification, and characterization of a GH43 Family β xylosidase/ β arabinofuranosidase from a compost microbial metagenome. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 8943-54	5.7	37
30	Diversity of extradiol dioxygenases in aromatic-degrading microbial community explored using both culture-dependent and culture-independent approaches. <i>FEMS Microbiology Ecology</i> , 2014 , 90, 367-79	4.3	11
29	Key amino acid residues for the endo-processive activity of GH74 xyloglucanase. <i>FEBS Letters</i> , 2014 , 588, 1731-8	3.8	28
28	Engineering the <i>Oryza sativa</i> cell wall with rice NAC transcription factors regulating secondary wall formation. <i>Frontiers in Plant Science</i> , 2013 , 4, 383	6.2	67
27	Characterization of a novel β glucosidase from a compost microbial metagenome with strong transglycosylation activity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 18325-34	5.4	95
26	Cloning and Expression of Isoprimeverose-producing Oligoxyloglucan Hydrolase from Actinomycetes Species, <i>Oerskovia</i> sp. Y1. <i>Journal of Applied Glycoscience (1999)</i> , 2012 , 59, 83-88	1	11
25	Characterization of an endo-processive-type xyloglucanase having a β 1,4-glucan-binding module and an endo-type xyloglucanase from <i>Streptomyces avermitilis</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7939-45	4.8	29

24	Further Structural Study of the Xyloglucanase-derived Eggplant Xyloglucan Oligo-saccharides. <i>Journal of Applied Glycoscience</i> (1999), 2010 , 57, 265-268	1	1
23	The crystal structure of a xyloglucan-specific endo-beta-1,4-glucanase from <i>Geotrichum</i> sp. M128 xyloglucanase reveals a key amino acid residue for substrate specificity. <i>FEBS Journal</i> , 2009 , 276, 5094-100	5.7	21
22	Substrate Recognition of <i>Escherichia coli</i> YicI (.ALPHA.-Xylosidase). <i>Journal of Applied Glycoscience</i> (1999), 2008 , 55, 111-118	1	1
21	Substrate recognition by glycoside hydrolase family 74 xyloglucanase from the basidiomycete <i>Phanerochaete chrysosporium</i> . <i>FEBS Journal</i> , 2007 , 274, 5727-36	5.7	40
20	Aglycone specificity of <i>Escherichia coli</i> alpha-xylosidase investigated by transxylosylation. <i>FEBS Journal</i> , 2007 , 274, 6074-84	5.7	6
19	A system for the directed evolution of the insecticidal protein from <i>Bacillus thuringiensis</i> . <i>Molecular Biotechnology</i> , 2007 , 36, 90-101	3	23
18	The structural basis for the exo-mode of action in GH74 oligoxyloglucan reducing end-specific cellobiohydrolase. <i>Journal of Molecular Biology</i> , 2007 , 370, 53-62	6.5	46
17	Screening, Purification and Characterization of a Prokaryotic Isoprimeverose-producing Oligoxyloglucan Hydrolase from <i>Oerskovia</i> sp. Y1. <i>Journal of Applied Glycoscience</i> (1999), 2007 , 54, 91-94 ¹		17
16	Cloning and characterization of two xyloglucanases from <i>Paenibacillus</i> sp. strain KM21. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 7670-8	4.8	63
15	Functions and Structures of Xyloglucan Hydrolases Belonging to Glycoside Hydrolase Family 74. <i>Journal of Applied Glycoscience</i> (1999), 2005 , 52, 169-176	1	2
14	Tandem repeat of a seven-bladed beta-propeller domain in oligoxyloglucan reducing-end-specific cellobiohydrolase. <i>Structure</i> , 2004 , 12, 1209-17	5.2	43
13	Purification, characterization, cDNA cloning, and expression of a xyloglucan endoglucanase from <i>Geotrichum</i> sp. M128. <i>FEBS Letters</i> , 2004 , 560, 45-50	3.8	56
12	Crystallization and preliminary X-ray crystallographic study on a xyloglucan-specific exo-beta-glycosidase, oligoxyloglucan reducing-end specific cellobiohydrolase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1838-9		5
11	A cadherin-like protein functions as a receptor for <i>Bacillus thuringiensis</i> Cry1Aa and Cry1Ac toxins on midgut epithelial cells of <i>Bombyx mori</i> larvae. <i>FEBS Letters</i> , 2003 , 538, 29-34	3.8	53
10	Purification, characterization, cloning, and expression of a novel xyloglucan-specific glycosidase, oligoxyloglucan reducing end-specific cellobiohydrolase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48276-81	5.4	63
9	Aminopeptidase N isoforms from the midgut of <i>Bombyx mori</i> and <i>Plutella xylostella</i> -- their classification and the factors that determine their binding specificity to <i>Bacillus thuringiensis</i> Cry1A toxin. <i>FEBS Letters</i> , 2002 , 519, 215-20	3.8	83
8	Binding of phylogenetically distant <i>Bacillus thuringiensis</i> cry toxins to a <i>Bombyx mori</i> aminopeptidase N suggests importance of Cry toxin conserved structure in receptor binding. <i>Current Microbiology</i> , 1999 , 39, 14-20	2.4	16
7	cDNA cloning and expression of <i>Bacillus thuringiensis</i> Cry1Aa toxin binding 120 kDa aminopeptidase N from <i>Bombyx mori</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999 , 1444, 131-7		38

6	Bacillus thuringiensis insecticidal Cry1Aa toxin binds to a highly conserved region of aminopeptidase N in the host insect leading to its evolutionary success. <i>BBA - Proteins and Proteomics</i> , 1999 , 1432, 57-63		21
5	Lipopolysaccharide-binding protein of Bombyx mori participates in a hemocyte-mediated defense reaction against gram-negative bacteria. <i>Journal of Insect Physiology</i> , 1999 , 45, 853-859	2.4	64
4	Acaloleptins A: inducible antibacterial peptides from larvae of the beetle, Acalolepta luxuriosa. <i>Archives of Insect Biochemistry and Physiology</i> , 1999 , 40, 88-98	2.3	25
3	The lipopolysaccharide-binding protein participating in hemocyte nodule formation in the silkworm Bombyx mori is a novel member of the C-type lectin superfamily with two different tandem carbohydrate-recognition domains. <i>FEBS Letters</i> , 1999 , 443, 139-43	3.8	147
2	Bacillus thuringiensis Cry1Aa toxin-binding region of Bombyx mori aminopeptidase N. <i>FEBS Letters</i> , 1999 , 463, 221-4	3.8	26
1	Aminopeptidase N from Bombyx mori as a candidate for the receptor of Bacillus thuringiensis Cry1Aa toxin. <i>FEBS Journal</i> , 1997 , 246, 652-7		88