Kazuhiko Ishikawa

List of Publications by Year
in descending order

54	959	430874 18	477307 29
papers	citations	h-index	g-index

55	55	55	1077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyperthermostable Endoglucanase from Pyrococcus horikoshii. Applied and Environmental Microbiology, 2002, 68, 430-433.	3.1	117
2	Combining biomass wet disk milling and endoglucanase/Î²-glucosidase hydrolysis for the production of cellulose nanocrystals. Carbohydrate Polymers, 2015, 128, 75-81.	10.2	53
3	Enhancing cellulase and hemicellulase production by genetic modification of the carbon catabolite repressor gene, creA, in Acremonium cellulolyticus. AMB Express, 2013, 3, 73.	3.0	48
4	Characterization of a Novel Thermostable O -Acetylserine Sulfhydrylase from Aeropyrum pernix K1. Journal of Bacteriology, 2003, 185, 2277-2284.	2.2	44
5	Crystal structure of Î²â€galactosidase from BacillusÂcirculans <scp>ATCC</scp>Â31382 (BgaD) and the construction of the thermophilic mutants. FEBS Journal, 2015, 282, 2540-2552.	4.7	44
6	Analysis of the function of a hyperthermophilic endoglucanase from Pyrococcus horikoshii that hydrolyzes crystalline cellulose. Extremophiles, 2005, 9, 37-43.	2.3	41
7	A novelO-phospho-L-serine sulfhydrylation reaction catalyzed byO-acetylserine sulfhydrylase fromAeropyrum pernixK1. FEBS Letters, 2003, 551, 133-138.	2.8	39
8	Three-dimensional Structure of a New Enzyme, O-Phosphoserine Sulfhydrylase, Involved in l-Cysteine Biosynthesis by a Hyperthermophilic Archaeon, Aeropyrum pernix K1, at 2.0Ã... Resolution. Journal of Molecular Biology, 2005, 351, 334-344.	4.2	34
9	Construction of a starch-inducible homologous expression system to produce cellulolytic enzymes from Acremonium cellulolyticus. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 823-830.	3.0	33
10	Contribution of a family 1 carbohydrate-binding module in thermostable glycoside hydrolase 10 xylanase from Talaromyces cellulolyticus toward synergistic enzymatic hydrolysis of lignocellulose. Biotechnology for Biofuels, 2015, 8, 77.	6.2	33
11	Structure of hyperthermophilic endocellulase from Pyrococcus horikoshii. Proteins: Structure, Function and Bioinformatics, 2010, 78, 496-500.	2.6	29
12	Structure of hyperthermophilic Î²-glucosidase from Pyrococcus furiosus. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1473-1479.	0.7	29
13	Xylanase (GH11) from Acremonium cellulolyticus: homologous expression and characterization. AMB Express, 2014, 4, 27.	3.0	26
14	Absolute chirality of the Î³-polymorph of glycine: correlation of the absolute structure with the optical rotation. Chemical Communications, 2012, 48, 6031.	4.1	24
15	Crystal Structure of Talaromyces cellulolyticus (Formerly Known as Acremonium cellulolyticus) GH Family 11 Xylanase. Applied Biochemistry and Biotechnology, 2014, 174, 1599-1612.	2.9	23
16	Complete Saccharification of Cellulose at High Temperature Using Endocellulase and Î²-Glucosidase from Pyrococcus sp.. Journal of Microbiology and Biotechnology, 2010, 20, 889-892.	2.1	23
17	Construction of Thermophilic Xylanase and Its Structural Analysis. Biochemistry, 2016, 55, 4399-4409.	2.5	21
18	Decreased Cellulase and Xylanase Production in the Fungus Talaromyces cellulolyticus by Disruption of tacA and tctA Genes, Encoding Putative Zinc Finger Transcriptional Factors. Applied Biochemistry and Biotechnology, 2015, 175, 3218-3229.	2.9	19

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19	Heterologous expression of hyperthermophilic cellulases of archaea Pyrococcus sp. by fungus Talaromyces cellulolyticus. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 137-141.	3.0	19
20	Use of cellobiohydrolase-free cellulase blends for the hydrolysis of microcrystalline cellulose and sugarcane bagasse pretreated by either ball milling or ionic liquid [Emim][Ac]. Bioresource Technology, 2013, 149, 551-555.	9.6	18
21	Atomic resolution of the crystal structure of the hyperthermophilic family 12 endocellulase and stabilizing role of the DxDxDG calciumâ€binding motif in Pyrococcus furiosus. FEBS Letters, 2012, 586, 1009-1013.	2.8	17
22	Cellulose-inducible xylanase Xyl10A from Acremonium cellulolyticus: Purification, cloning and homologous expression. Protein Expression and Purification, 2014, 94, 40-45.	1.3	17
23	Structural Analysis of the Substrate Recognition Mechanism in O-Phosphoserine Sulfhydrylase from the Hyperthermophilic Archaeon Aeropyrum pernix K1. Journal of Molecular Biology, 2012, 422, 33-44.	4.2	14
24	Characterization of the xylanase regulator protein gene, xlnR, in Talaromyces cellulolyticus (formerly known as Acremonium cellulolyticus). Bioscience, Biotechnology and Biochemistry, 2014, 78, 1564-1567.	1.3	14
25	The role of disulfide bond in hyperthermophilic endocellulase. Extremophiles, 2013, 17, 593-599.	2.3	13
26	Crystal structure of an acetylesterase from Talaromyces cellulolyticus and the importance of a disulfide bond near the active site. FEBS Letters, 2015, 589, 1200-1206.	2.8	13
27	Enhancing cellulase production by overexpression of xylanase regulator protein gene, xlnR, in Talaromyces cellulolyticus cellulase hyperproducing mutant strain. Bioscience, Biotechnology and Biochemistry, 2016, 80, 2065-2068.	1.3	13
28	Characterization of a feruloyl esterase B from Talaromyces cellulolyticus. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1845-1851.	1.3	12
29	Crystallization and preliminary X-ray analysis of endoglucanase fromPyrococcus horikoshii. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 1169-1171.	0.7	11
30	Complete saccharification of Î²-glucan using hyperthermophilic endocellulase and Î²-glucosidase from Pyrococcus furiosus. Bioscience, Biotechnology and Biochemistry, 2014, 78, 1537-1541.	1.3	11
31	Analysis of the Putative Substrate Binding Region of Hyperthermophilic Endoglucanase fromPyrococcus horikoshii. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2585-2587.	1.3	10
32	Absolute Structure Determination of Chiral Crystals Consisting of Achiral Benzophenone with Single-crystal X-ray Diffraction and Its Correlation with Solid-state Circular Dichroism. Chemistry Letters, 2016, 45, 526-528.	1.3	10
33	Accurate measurement of the optical activity of alanine crystals and the determination of their absolute chirality. Journal of Physics and Chemistry of Solids, 2017, 104, 257-266.	4.0	10
34	New function and application of the cysteine synthase from archaea. Biochemical Engineering Journal, 2010, 48, 315-322.	3.6	9
35	Construction of thermostable cellobiohydrolase I from the fungus Talaromyces cellulolyticus by protein engineering. Protein Engineering, Design and Selection, 2019, 32, 33-40.	2.1	9
36	Structural analysis of Î²-glucosidase mutants derived from a hyperthermophilic tetrameric structure. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 877-888.	2.5	8

#	Article	IF	Citations
37	RNAi Knockdown of Potent Sugar Sensor in Cellulase-Producing Fungus Acremonium cellulolyticus. Applied Biochemistry and Biotechnology, 2014, 172, 3009-3015.	2.9	6
38	Gene Targeting by RNAi-Mediated Knockdown of Potent DNA Ligase IV Homologue in the Cellulase-Producing Fungus Talaromyces cellulolyticus. Applied Biochemistry and Biotechnology, 2014, 174, 1697-1704.	2.9	5
39	Role of F225 in O-phosphoserine sulfhydrylase from Aeropyrum pernix K1. Extremophiles, 2016, 20, 733-745.	2.3	5
40	Deletion Analysis of GH7 Endoglucanase Gene (cel7B) Promoter Region in a Talaromyces cellulolyticus ligD-Disrupted Strain. Applied Biochemistry and Biotechnology, 2017, 183, 1516-1525.	2.9	5
41	Structural Analysis and Construction of a Thermostable Antifungal Chitinase. Applied and Environmental Microbiology, 2022, 88, .	3.1	5
42	A new crystal form of a hyperthermophilic endocellulase. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 878-883.	0.8	4
43	Monomer structure of a hyperthermophilic Î²-glucosidase mutant forming a dodecameric structure in the crystal form. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 854-859.	0.8	4
44	Thermostability and reactivity in organic solvent of O-phospho-l-serine sulfhydrylase from hyperthermophilic archaeon Aeropyrum pernix K1. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1280-1286.	1.3	4
45	The structure of hyperthermophilic Î²â€‹<i>N</i>â€‹acetylglucosaminidase reveals a novel dimer architecture associated with the active site. FEBS Journal, 2014, 281, 5092-5103.	4.7	3
46	Crystal structure of (<i>S</i>)-4-carbamoyl-4-(1,3-dioxoisoindolin-2-yl)butanoic acid. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 107-109.	0.5	3
47	Crystallization and preliminary X-ray analysis of a hyperthermophilic endoglucanase fromPyrococcus furiosus. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 328-329.	0.7	2
48	Crystallization and preliminary X-ray crystallographic analysis of a putative feruloyl esterase from<i>Talaromyces cellulolyticus</i>. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1664-1667.	0.8	2
49	Crystallization and preliminary X-ray crystallographic analysis of a putative acetylxylan esterase fromTalaromyces cellulolyticus. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1668-1670.	0.8	1
50	Unnatural Amino Acid Synthesis by Thermostable <i>O</i>-Phospho-<scp>l</scp>-serine Sulfhydrylase from Hyperthermophilic Archaeon <i>Aeropyrum pernix</i> K1. Chemistry Letters, 2017, 46, 1789-1792.	1.3	1
51	Identification of amino acid residues important for recognition of O-phospho-l-serine substrates by cysteine synthase. Journal of Bioscience and Bioengineering, 2021, 131, 483-490.	2.2	1
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53	Increased Production of Recombinant O-Phospho-L-Serine Sulfhydrylase from the Hyperthermophilic Archaeon Aeropyrum pernix K1 Using Escherichia coli. Current Biotechnology, 2019, 8, 15-23.	0.4	0
54	Chiroptical Study on Organic Crystals Using the G-HAUP. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2017, 75, 530-537.	0.1	0