

Akira Nakamura

List of Publications by Year in descending order

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87
papers

2,106
citations

201575

27
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41
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88
all docs

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docs citations

88
times ranked

2353
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia Fermentation, a Novel Anoxic Metabolism of Nitrate by Fungi. <i>Journal of Biological Chemistry</i> , 2002, 277, 1892-1896.	1.6	132
2	Fungal Ammonia Fermentation, a Novel Metabolic Mechanism That Couples the Dissimilatory and Assimilatory Pathways of Both Nitrate and Ethanol. <i>Journal of Biological Chemistry</i> , 2004, 279, 12414-12420.	1.6	84
3	Four Aromatic Residues in the Active Center of Cyclodextrin Glucanotransferase from Alkalophilic <i>Bacillus</i> sp. 1011: Effects of Replacements on Substrate Binding and Cyclization Characteristics. <i>Biochemistry</i> , 1994, 33, 9929-9936.	1.2	78
4	<i>Tuberibacillus calidus</i> gen. nov., sp. nov., isolated from a compost pile and reclassification of <i>Bacillus naganensis</i> Tomimura et al. 1990 as <i>Pullulanibacillus naganensis</i> gen. nov., comb. nov. and <i>Bacillus laevolacticus</i> Andersch et al. 1994 as <i>Sporolactobacillus laevolacticus</i> comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 2545-2551.	0.8	76
5	Structural analysis of HTL and D14 proteins reveals the basis for ligand selectivity in <i>Striga</i> . <i>Nature Communications</i> , 2018, 9, 3947.	5.8	73
6	Analysis of Cre1 binding sites in the <i>Trichoderma reesei</i> cbh1upstream region. <i>FEMS Microbiology Letters</i> , 1996, 145, 361-366.	0.7	70
7	<i>Planifilum fimeticola</i> gen. nov., sp. nov. and <i>Planifilum fulgidum</i> sp. nov., novel members of the family <i>Thermoactinomycetaceae</i> ™ isolated from compost. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 2101-2104.	0.8	68
8	In vivo directed evolution for thermostabilization of <i>Escherichia coli</i> hygromycin B phosphotransferase and the use of the gene as a selection marker in the host-vector system of <i>Thermus thermophilus</i> . <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 158-163.	1.1	61
9	<i>Pseudomonas azotifigens</i> sp. nov., a novel nitrogen-fixing bacterium isolated from a compost pile. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 1539-1544.	0.8	61
10	Cloning and sequencing of an α -glucosidase gene from <i>Aspergillus niger</i> and its expression in <i>A. nidulans</i> . <i>Journal of Biotechnology</i> , 1997, 53, 75-84.	1.9	54
11	Overproduction of recombinant <i>Trichoderma reesei</i> cellulases by <i>Aspergillus oryzae</i> and their enzymatic properties. <i>Journal of Biotechnology</i> , 1998, 65, 163-171.	1.9	54
12	Nucleotide sequence of a cellulase gene of <i>Bacillus subtilis</i> . <i>FEBS Journal</i> , 1987, 164, 317-320.	0.2	53
13	Structural basis for controlling the enzymatic properties of polymannuronate preferred alginate lyase FIAlyA from the PL-7 family. <i>Chemical Communications</i> , 2018, 54, 555-558.	2.2	49
14	Cloning and sequencing of a cyclodextrin glucanotransferase gene from <i>Bacillus ohbensis</i> and its expression in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 600-5.	1.7	47
15	Structural basis of unique ligand specificity of KAI2-like protein from parasitic weed <i>Striga hermonthica</i> . <i>Scientific Reports</i> , 2016, 6, 31386.	1.6	47
16	Replacement of an amino acid residue of cyclodextrin glucanotransferase of <i>Bacillus ohbensis</i> doubles the production of β -cyclodextrin. <i>Journal of Biotechnology</i> , 1994, 32, 283-288.	1.9	46
17	Cloning, sequencing, and expression of the cellulase genes of <i>Humicola grisea</i> var. <i>thermoidea</i> . <i>Journal of Biotechnology</i> , 1996, 50, 137-147.	1.9	43
18	Correlation between cellulose binding and activity of cellulose-binding domain mutants of <i>Humicola grisea</i> cellobiohydrolase 1. <i>FEBS Letters</i> , 2007, 581, 5891-5896.	1.3	42

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19	Comparison of gene structures and enzymatic properties between two endoglucanases from <i>Humicola grisea</i> . <i>Journal of Biotechnology</i> , 1999, 67, 85-97.	1.9	37
20	An l-glucose Catabolic Pathway in <i>Paracoccus</i> Species 43P. <i>Journal of Biological Chemistry</i> , 2012, 287, 40448-40456.	1.6	37
21	Denitrification of Nitrate by the Fungus <i>Cylindrocarpon tonkinense</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1115-1120.	0.6	34
22	Structural basis for regulation of bifunctional roles in replication initiator protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18484-18489.	3.3	34
23	Improvement in Quality of Protein Crystals Grown in a High Magnetic Field Gradient. <i>Crystal Growth and Design</i> , 2012, 12, 1141-1150.	1.4	33
24	Structural basis for brassinosteroid response by BIL1/BZR1. <i>Nature Plants</i> , 2018, 4, 771-776.	4.7	33
25	Cloning of a Gene Encoding a Putative Carbon Catabolite Repressor from <i>Trichoderma reesei</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 173-176.	0.6	32
26	Purification and Characterization of Cellulases from <i>Humicola grisea</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 77-82.	0.6	29
27	Molecular cloning of a cellulase gene from <i>Bacillus subtilis</i> and its expression in <i>Escherichia coli</i> . <i>Agricultural and Biological Chemistry</i> , 1986, 50, 233-237.	0.3	28
28	Anaerobic Elemental Sulfur Reduction by Fungus <i>Fusarium oxysporum</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2402-2407.	0.6	26
29	Studies on the regulatory mechanism of isocitrate dehydrogenase 2 using acetylation mimics. <i>Scientific Reports</i> , 2017, 7, 9785.	1.6	26
30	Cloning of a New <i>cryIA</i> Gene from <i>Bacillus thuringiensis</i> Strain FU-2-7 and Analysis of Chimaeric <i>CryIA(a)</i> Proteins for Toxicity. <i>Bioscience, Biotechnology and Biochemistry</i> , 1994, 58, 830-835.	0.6	25
31	Isolation of the Gene and Characterization of the Enzymatic Properties of a Major Exoglucanase of <i>Humicola grisea</i> without a Cellulose-Binding Domain. <i>Journal of Biochemistry</i> , 1998, 124, 717-725.	0.9	25
32	Gene cloning and characterization of a novel extracellular ribonuclease of <i>Bacillus subtilis</i> . <i>FEBS Journal</i> , 1992, 209, 121-127.	0.2	24
33	Structure and Polymannuronate Specificity of a Eukaryotic Member of Polysaccharide Lyase Family 14. <i>Journal of Biological Chemistry</i> , 2017, 292, 2182-2190.	1.6	24
34	Dynamic, Ligand-dependent Conformational Change Triggers Reaction of Ribose-1,5-bisphosphate Isomerase from <i>Thermococcus kodakarensis</i> KOD1. <i>Journal of Biological Chemistry</i> , 2012, 287, 20784-20796.	1.6	22
35	Laminarinase from <i>Flavobacterium</i> sp. reveals the structural basis of thermostability and substrate specificity. <i>Scientific Reports</i> , 2017, 7, 11425.	1.6	22
36	Crystal Structure of a Thermophilic GrpE Protein: Insight into Thermosensing Function for the DnaK Chaperone System. <i>Journal of Molecular Biology</i> , 2010, 396, 1000-1011.	2.0	21

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37	Paracoccus laeviglucoovorans sp. nov., an l-glucose-utilizing bacterium isolated from soil. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 3878-3884.	0.8	21
38	Cloning, Sequencing, and Expression of a Thermostable Cellulase Gene of <i>Humicola grisea</i> . Bioscience, Biotechnology and Biochemistry, 1997, 61, 245-250.	0.6	19
39	Functional analysis of the small subunit of the putative homoaconitase from <i>Pyrococcus horikoshii</i> in the Thermus lysine biosynthetic pathway. FEMS Microbiology Letters, 2004, 233, 315-324.	0.7	19
40	Crystal Structure of a Novel N-Substituted L-Amino Acid Dioxygenase from <i>Burkholderia ambifaria</i> AMMD. PLoS ONE, 2013, 8, e63996.	1.1	19
41	Construction and characterization of multicopy expression-vectors in <i>Streptomyces</i> spp. Molecular Genetics and Genomics, 1987, 210, 468-475.	2.4	18
42	Nucleotide sequence of the cryptic plasmid pTT8 from <i>Thermus thermophilus</i> HB8 and isolation and characterization of its high-copy-number mutant. Plasmid, 2004, 51, 227-237.	0.4	18
43	Unusual Transcription Regulation of the <i>thiaD</i> Gene under Anaerobic Conditions Supporting Fungal Ammonia Fermentation. Bioscience, Biotechnology and Biochemistry, 2004, 68, 978-980.	0.6	16
44	Crystal structure of TTHA1657 (AT-rich DNA-binding protein; p25) from <i>Thermus thermophilus</i> HB8 at 2.16 Å... resolution. Proteins: Structure, Function and Bioinformatics, 2006, 66, 755-759.	1.5	16
45	Yam Tuber Storage Protein Reduces Plant Oxidants Using the Coupled Reactions as Carbonic Anhydrase and Dehydroascorbate Reductase. Molecular Plant, 2015, 8, 1115-1118.	3.9	16
46	<i>Brevibacillus fulvus</i> sp. nov., isolated from a compost pile. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 506-512.	0.8	15
47	Structural optimization of SadA, an Fe(II)- and α -ketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-L-threo-3,4-dimethoxyphenylserine. Biochemical and Biophysical Research Communications, 2014, 450, 1458-1461.	1.0	15
48	Characterization of three putative Lon proteases of <i>Thermus thermophilus</i> HB27 and use of their defective mutants as hosts for production of heterologous proteins. Extremophiles, 2008, 12, 285-296.	0.9	14
49	Crystal structures of the ternary complex of APH(4)-Ia/Hph with hygromycin B and an ATP analog using a thermostable mutant. Journal of Structural Biology, 2013, 183, 76-85.	1.3	13
50	Functional analysis of the small subunit of the putative homoaconitase from <i>Pyrococcus horikoshii</i> in the Thermus lysine biosynthetic pathway. FEMS Microbiology Letters, 2004, 233, 315-324.	0.7	13
51	Formate-forming Fungal Catabolic Pathway to Supply Electrons to Nitrate Respiration. Bioscience, Biotechnology and Biochemistry, 2003, 67, 937-939.	0.6	12
52	Isolation of a low-molecular-weight, multicopy plasmid, pNHK101, from <i>Thermus</i> sp. TK10 and its use as an expression vector for <i>T. thermophilus</i> HB27. Plasmid, 2005, 54, 70-79.	0.4	12
53	Overproduction of α -glucosidase in <i>Aspergillus niger</i> transformed with the cloned gene <i>aglA</i> . Journal of General and Applied Microbiology, 1998, 44, 177-181.	0.4	11
54	Regulation of cyclodextrin glucanotransferase synthesis in <i>Bacillus ohlbensis</i> . FEMS Microbiology Letters, 2006, 149, 221-226.	0.7	11

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55	Engineering a short-chain dehydrogenase/reductase for the stereoselective production of (2S,3R,4S)-4-hydroxyisoleucine with three asymmetric centers. <i>Scientific Reports</i> , 2017, 7, 13703.	1.6	11
56	Extracellular Production of <i>Bacillus ohlbensis</i> Cyclodextrin Glucanotransferase by <i>B. subtilis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1993, 57, 346-347.	0.6	10
57	A Possible Role of NADPH-Dependent Cytochrome P450 α Isozyme in Glycolysis under Denitrifying Conditions. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1109-1114.	0.6	10
58	Enzymatic Analysis of a Thermostabilized Mutant of an <i>Escherichia coli</i> Hygromycin B Phosphotransferase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 2467-2471.	0.6	10
59	Directed Evolution for Thermostabilization of a Hygromycin B Phosphotransferase from <i>Streptomyces hygrosopicus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2234-2241.	0.6	10
60	Structural basis of L-glucose oxidation by scyllo-inositol dehydrogenase: Implications for a novel enzyme subfamily classification. <i>PLoS ONE</i> , 2018, 13, e0198010.	1.1	10
61	Isolation of Flavohemoglobin from the Actinomycete <i>Streptomyces antibioticus</i> Grown without External Nitric Oxide Stress. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1106-1112.	0.6	9
62	Expression and purification of F-plasmid RepE and preliminary X-ray crystallographic study of its complex with operator DNA. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 346-349.	0.7	9
63	Structure Analysis of Archaeal AMP Phosphorylase Reveals Two Unique Modes of Dimerization. <i>Journal of Molecular Biology</i> , 2013, 425, 2709-2721.	2.0	9
64	Identification of the Cellulose-Binding Domain of a <i>Bacillus subtilis</i> Endoglucanase Distinct from Its Catalytic Domain. <i>Bioscience, Biotechnology and Biochemistry</i> , 1993, 57, 260-264.	0.6	8
65	Characterization of LgnR, an IclR family transcriptional regulator involved in the regulation of l-gluconate catabolic genes in <i>Paracoccus</i> sp. 43P. <i>Microbiology (United Kingdom)</i> , 2014, 160, 623-634.	0.7	8
66	In-situ and real-time growth observation of high-quality protein crystals under quasi-microgravity on earth. <i>Scientific Reports</i> , 2016, 6, 22127.	1.6	8
67	Hall effect of metallic Langmuir-Blodgett films based on bisethylenedioxytetrathiafulvalene complex of decyltetracyanoquinodimethane. <i>Applied Physics Letters</i> , 1994, 64, 2602-2604.	1.5	7
68	Crystal structure of a Ca ²⁺ -dependent regulator of flagellar motility reveals the open-closed structural transition. <i>Scientific Reports</i> , 2018, 8, 2014.	1.6	7
69	Cloning of a Gene Encoding a Putative Xylanase with a Cellulose-Binding Domain from <i>Humicola grisea</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1997, 61, 1593-1595.	0.6	6
70	The N-terminal domain of the replication initiator protein RepE is a dimerization domain forming a stable dimer. <i>Biochemical and Biophysical Research Communications</i> , 2004, 315, 10-15.	1.0	6
71	Nitrite formation from organic nitrogen by <i>Streptomyces antibioticus</i> supporting bacterial cell growth and possible involvement of nitric oxide as an intermediate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 1592-1602.	0.6	5
72	Identification of novel interacting regions involving calcineurin and nuclear factor of activated T cells. <i>FASEB Journal</i> , 2020, 34, 3197-3208.	0.2	5

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73	Highlighting the potential utility of MBP crystallization chaperone for Arabidopsis BIL1/BZR1 transcription factor-DNA complex. <i>Scientific Reports</i> , 2021, 11, 3879.	1.6	5
74	Isolation and characterization of the nuclease O gene (nucO) from <i>Aspergillus oryzae</i> . <i>Current Genetics</i> , 1996, 30, 312-317.	0.8	4
75	A Factor Produced by <i>Kaistia</i> sp. 32K Accelerated the Motility of <i>Methylobacterium</i> sp. ME121. <i>Biomolecules</i> , 2020, 10, 618.	1.8	4
76	Draft Genome Sequence of <i>Methylobacterium</i> sp. ME121, Isolated from Soil as a Mixed Single Colony with <i>Kaistia</i> sp. 32K. <i>Genome Announcements</i> , 2015, 3, .	0.8	3
77	Structural basis for the substrate recognition of aminoglycoside 7-eposphotransferase-Ia from <i>Streptomyces hygroscopicus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 599-607.	0.4	3
78	Analysis of Cre1 binding sites in the <i>Trichoderma reesei</i> cbh1 upstream region. <i>FEMS Microbiology Letters</i> , 1996, 145, 361-366.	0.7	3
79	Crystallization and preliminary crystallographic analysis of hygromycin B phosphotransferase from <i>Escherichia coli</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 685-688.	0.7	2
80	Expression, purification, crystallization and preliminary X-ray analysis of a novel N-substituted branched-chain L-amino-acid dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1067-1069.	0.7	2
81	Enhanced expression of cryIA(a) gene of <i>Bacillus thuringiensis</i> in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 1996, 82, 306-308.	0.9	1
82	Single amino acid mutation altered substrate specificity for scp-glucose and inositol in scyllo-inositol dehydrogenase isolated from <i>Paracoccus laeviglucoosivorans</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 734-742.	0.6	1
83	Metabolites Produced by <i>Kaistia</i> sp. 32K Promote Biofilm Formation in Coculture with <i>Methylobacterium</i> sp. ME121. <i>Biology</i> , 2020, 9, 287.	1.3	1
84	Complete Genome Sequence of <i>Kaistia</i> sp. Strain 32K, Isolated from Soil as a Mixed Single Colony with <i>Methylobacterium</i> sp. Strain ME121. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	1
85	Use of a Triple Protease-deficient Mutant of <i>Bacillus subtilis</i> as a Host for Secretion of aB. subtilis Cellulase and TEM ² -Laetamase. <i>Agricultural and Biological Chemistry</i> , 1991, 55, 2367-2374.	0.3	0
86	ãf—ãf ©ã,1ãfYãf%DNAã®è†è£1/2é—ã§ãâãzœã,'ã^ãã¾4ãªã,ãfã,«ãfã,ãããããf. <i>Kagaku To Seibutsu</i> , 2008, 46, 380-385		0
87	Composition and location of cryIA genes in <i>Bacillus thuringiensis</i> strain FU-2-7.. <i>Journal of General and Applied Microbiology</i> , 1996, 42, 337-341.	0.4	0