

Akira Nakamura

List of Publications by Year in descending order

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87
papers

2,106
citations

201575

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41
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88
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88
docs citations

88
times ranked

2353
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Single amino acid mutation altered substrate specificity for <i>scp</i> -glucose and inositol in <i>scyllo</i> -inositol dehydrogenase isolated from <i>Paracoccus laeviglucoivorans</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 734-742.	0.6	1
5	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
6	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
7	Structural basis for the substrate recognition of aminoglycoside 7- ϵ -phosphotransferase-Ia from <i>Streptomyces hygrosopicus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 599-607.	0.4	3
8	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
9	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
10	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
11	Structural basis for brassinosteroid response by BIL1/BZR1. <i>Nature Plants</i> , 2018, 4, 771-776.	4.7	33
12	Structural basis of L-glucose oxidation by <i>scyllo</i> -inositol dehydrogenase: Implications for a novel enzyme subfamily classification. <i>PLoS ONE</i> , 2018, 13, e0198010.	1.1	10
13	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
14	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
15	Studies on the regulatory mechanism of isocitrate dehydrogenase 2 using acetylation mimics. <i>Scientific Reports</i> , 2017, 7, 9785.	1.6	26
16	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
17	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
18	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

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19	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
20	Yam Tuber Storage Protein Reduces Plant Oxidants Using the Coupled Reactions as Carbonic Anhydrase and Dehydroascorbate Reductase. <i>Molecular Plant</i> , 2015, 8, 1115-1118.	3.9	16
21	<i>Paracoccus laeviglucosivorans</i> sp. nov., an l-glucose-utilizing bacterium isolated from soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 3878-3884.	0.8	21
22	<i>Brevibacillus fulvus</i> sp. nov., isolated from a compost pile. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 506-512.	0.8	15
23	Structural optimization of SadA, an Fe(II)- and α -ketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-l-threo-3,4-dimethoxyphenylserine. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1458-1461.	1.0	15
24	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
25	Characterization of LgnR, an lclR 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
26	Crystal structures of the ternary complex of APH(4)-Ia/Hph with hygromycin B and an ATP analog using a thermostable mutant. <i>Journal of Structural Biology</i> , 2013, 183, 76-85.	1.3	13
27	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
28	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
29	Crystal Structure of a Novel N-Substituted L-Amino Acid Dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>PLoS ONE</i> , 2013, 8, e63996.	1.1	19
30	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
31	An l-glucose Catabolic Pathway in <i>Paracoccus</i> Species 43P. <i>Journal of Biological Chemistry</i> , 2012, 287, 40448-40456.	1.6	37
32	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
33	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
34	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
35	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. <i>Extremophiles</i> , 2008, 12, 285-296.	0.9	14
36	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

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37	ãf—ãf ©ã,1ãfÿãf%DNAã®èè£½é—ãšãå;œã,â^¶ã¼ã™ã,ãfã,ãfã,ãf. Kagaku To Seibutsu, 2008, 46, 380-385		0
38	Anaerobic Elemental Sulfur Reduction by Fungus<i>Fusarium oxysporum</i>. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2402-2407.	0.6	26
39	Structural basis for regulation of bifunctional roles in replication initiator protein. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18484-18489.	3.3	34
40	Correlation between cellulose binding and activity of celluloseâ€binding domain mutants of <i>Humicola grisea</i> cellobiohydrolase 1. FEBS Letters, 2007, 581, 5891-5896.	1.3	42
41	Expression and purification of F-plasmid RepE and preliminary X-ray crystallographic study of its complex with operator DNA. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 346-349.	0.7	9
42	Crystallization and preliminary crystallographic analysis of hygromycin B phosphotransferase from Escherichia coli. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 685-688.	0.7	2
43	Crystal structure of TTHA1657 (AT-rich DNA-binding protein; p25) from Thermus thermophilus HB8 at 2.16 Å... resolution. Proteins: Structure, Function and Bioinformatics, 2006, 66, 755-759.	1.5	16
44	Regulation of cyclodextrin glucanotransferase synthesis in Bacillus ohbensis. FEMS Microbiology Letters, 2006, 149, 221-226.	0.7	11
45	Tuberibacillus calidus gen. nov., sp. nov., isolated from a compost pile and reclassification of Bacillus naganensis Tomimura et al. 1990 as Pullulanibacillus naganensis gen. nov., comb. nov. and Bacillus laevolacticus Andersch et al. 1994 as Sporolactobacillus laevolacticus comb. nov.. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 2545-2551.	0.8	76
46	Isolation of a low-molecular-weight, multicopy plasmid, pNHK101, from Thermus sp. TK10 and its use as an expression vector for T. thermophilus HB27. Plasmid, 2005, 54, 70-79.	0.4	12
47	In vivo directed evolution for thermostabilization of Escherichia coli hygromycin B phosphotransferase and the use of the gene as a selection marker in the host-vector system of Thermus thermophilus. Journal of Bioscience and Bioengineering, 2005, 100, 158-163.	1.1	61
48	Pseudomonas azotifigens sp. nov., a novel nitrogen-fixing bacterium isolated from a compost pile. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1539-1544.	0.8	61
49	Planifilum fimeticola gen. nov., sp. nov. and Planifilum fulgidum sp. nov., novel members of the family ã™Thermoactinomycetaceaeã™ isolated from compost. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 2101-2104.	0.8	68
50	Isolation of Flavohemoglobin from the Actinomycete Streptomyces antibioticus Grown without External Nitric Oxide Stress. Bioscience, Biotechnology and Biochemistry, 2004, 68, 1106-1112.	0.6	9
51	Functional analysis of the small subunit of the putative homoaconitase from Pyrococcus horikoshii in the Thermus lysine biosynthetic pathway. FEMS Microbiology Letters, 2004, 233, 315-324.	0.7	19
52	Nucleotide sequence of the cryptic plasmid pTT8 from Thermus thermophilus HB8 and isolation and characterization of its high-copy-number mutant. Plasmid, 2004, 51, 227-237.	0.4	18
53	Unusual Transcription Regulation of the niaD Gene under Anaerobic Conditions Supporting Fungal Ammonia Fermentation. Bioscience, Biotechnology and Biochemistry, 2004, 68, 978-980.	0.6	16
54	Fungal Ammonia Fermentation, a Novel Metabolic Mechanism That Couples the Dissimilatory and Assimilatory Pathways of Both Nitrate and Ethanol. Journal of Biological Chemistry, 2004, 279, 12414-12420.	1.6	84

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55	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
56	Functional analysis of the small subunit of the putative homoaconitase from <i>Pyrococcus horikoshii</i> in the <i>Thermus</i> lysine biosynthetic pathway. <i>FEMS Microbiology Letters</i> , 2004, 233, 315-324.	0.7	13
57	A Possible Role of NADPH-Dependent Cytochrome P450nor Isozyme in Glycolysis under Denitrifying Conditions. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1109-1114.	0.6	10
58	Formate-forming Fungal Catabolic Pathway to Supply Electrons to Nitrate Respiration. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 937-939.	0.6	12
59	Denitrification of Nitrate by the Fungus <i>Cylindrocarpum tonkinense</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1115-1120.	0.6	34
60	Ammonia Fermentation, a Novel Anoxic Metabolism of Nitrate by Fungi. <i>Journal of Biological Chemistry</i> , 2002, 277, 1892-1896.	1.6	132
61	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
62	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
63	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
64	Overproduction of α -glucosidase in <i>Aspergillus niger</i> transformed with the cloned gene <i>aglA</i> . <i>Journal of General and Applied Microbiology</i> , 1998, 44, 177-181.	0.4	11
65	Cloning, Sequencing, and Expression of a Thermostable Cellulase Gene of <i>Humicola grisea</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1997, 61, 245-250.	0.6	19
66	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
67	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
68	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
69	Enhanced expression of <i>cryIA(a)</i> 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
70	Isolation and characterization of the nuclease O gene (<i>nucO</i>) from <i>Aspergillus oryzae</i> . <i>Current Genetics</i> , 1996, 30, 312-317.	0.8	4
71	Analysis of Cre1 binding sites in the <i>Trichoderma reesei</i> <i>cbh1</i> upstream region. <i>FEMS Microbiology Letters</i> , 1996, 145, 361-366.	0.7	70
72	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

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73	Purification and Characterization of Cellulases from <i>Humicola grisea</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 77-82.	0.6	29
74	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
75	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
76	Cloning of a New cryIA Gene from <i>Bacillus thuringiensis</i> Strain FU-2-7 and Analysis of Chimaeric CryIA(a) Proteins for Toxicity. <i>Bioscience, Biotechnology and Biochemistry</i> , 1994, 58, 830-835.	0.6	25
77	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
78	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
79	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
80	Extracellular Production of <i>Bacillus ohbensis</i> Cyclodextrin Glucanotransferase by <i>B. subtilis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1993, 57, 346-347.	0.6	10
81	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
82	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
83	Use of a Triple Protease-deficient Mutant of <i>Bacillus subtilis</i> as a Host for Secretion of a <i>B. subtilis</i> Cellulase and TEM ¹ -Lactamase. <i>Agricultural and Biological Chemistry</i> , 1991, 55, 2367-2374.	0.3	0
84	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
85	Construction and characterization of multicopy expression-vectors in <i>Streptomyces</i> spp. <i>Molecular Genetics and Genomics</i> , 1987, 210, 468-475.	2.4	18
86	Nucleotide sequence of a cellulase gene of <i>Bacillus subtilis</i> . <i>FEBS Journal</i> , 1987, 164, 317-320.	0.2	53
87	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