Haruyuki Atomi

List of Publications by Year in Descending Order

158 papers	5,389 citations	41 h-index	68 g-index
169 ext. papers	6,101 ext. citations	5.5 avg, IF	5.52 L-index

#	Paper	IF	Citations
158	TK1211 Encodes an Amino Acid Racemase towards Leucine and Methionine in the Hyperthermophilic Archaeon Thermococcus kodakarensis. *Journal of Bacteriology*, **2021**, 203,	3.5	1
157	Altering the Phosphorylation Position of Pyrophosphate-Dependent -Inositol-1-Kinase Based on Its Crystal Structure. *ACS Chemical Biology*, **2021**, 16, 794-799	4.9	1
156	Identification and Enzymatic Analysis of an Archaeal ATP-Dependent Serine Kinase from the Hyperthermophilic Archaeon. *Journal of Bacteriology*, **2021**, 203, e0002521	3.5	2
155	Degradation of complex arabinoxylans by human colonic Bacteroidetes. *Nature Communications*, **2021**, 12, 459	17.4	15
154	Effects of high-level expression of A-ATPase on H production in Thermococcus kodakarensis. *Journal of Bioscience and Bioengineering*, **2020**, 130, 149-158	3.3	
153	Different Proteins Mediate Step-Wise Chromosome Architectures in and. *Frontiers in Microbiology*, **2020**, 11, 1247	5.7	4
152	Thermophilic Degradation of Hemicellulose, a Critical Feedstock in the Production of Bioenergy and Other Value-Added Products. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	11
151	Integration of large heterologous DNA fragments into the genome of Thermococcus kodakarensis. *Extremophiles*, **2020**, 24, 339-353	3	1
150	Crystal structure of pantoate kinase from Thermococcus kodakarensis. *Proteins: Structure, Function and Bioinformatics*, **2020**, 88, 718-724	4.2	0
149	A Structurally Novel Lipoyl Synthase in the Hyperthermophilic Archaeon Thermococcus kodakarensis. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	2
148	Total Syntheses of C60- and C100-Dolichols. *Journal of Organic Chemistry*, **2020**, 85, 11549-11559	4.2	
147	Branched-chain polyamine stabilizes RNA polymerase at elevated temperatures in hyperthermophiles. *Amino Acids*, **2020**, 52, 275-285	3.5	4
146	Structural Insight into [NiFe] Hydrogenase Maturation by Transient Complexes between Hyp Proteins. *Accounts of Chemical Research*, **2020**, 53, 875-886	24.3	9
145	Distinct Modified Nucleosides in tRNA from the Hyperthermophilic Archaeon Thermococcus kodakarensis and Requirement of tRNA mG10/m G10 Methyltransferase (Archaeal Trm11) for Survival at High Temperatures. *Journal of Bacteriology*, **2019**, 201,	3.5	8
144	Identification of Dephospho-Coenzyme A (Dephospho-CoA) Kinase in Thermococcus kodakarensis and Elucidation of the Entire CoA Biosynthesis Pathway in Archaea. *MBio*, **2019**, 10,	7.8	7
143	Microbe Profile: : the model hyperthermophilic archaeon. *Microbiology (United Kingdom)*, **2019**, 165, 1166-1168	2.9	8
142	A primordial and reversible TCA cycle in a facultatively chemolithoautotrophic thermophile. *Science* , **2018**, 359, 559-563	33.3	87

141	Phytoene production utilizing the isoprenoid biosynthesis capacity of Thermococcus kodakarensis. *Extremophiles*, **2018**, 22, 301-313	3	9
140	An ornithine □aminotransferase required for growth in the absence of exogenous proline in the archaeon. *Journal of Biological Chemistry*, **2018**, 293, 3625-3636	5.4	4
139	Hyperthermophilic Archaeon Thermococcus kodakarensis Utilizes a Four-Step Pathway for NAD Salvage through Nicotinamide Deamination. *Journal of Bacteriology*, **2018**, 200,	3.5	5
138	Crystal structures of an archaeal chitinase ChiD and its ligand complexes. *Glycobiology*, **2018**, 28, 418-426	5.8	1
137	Identification of a pyrophosphate-dependent kinase and its donor selectivity determinants. *Nature Communications*, **2018**, 9, 1765	17.4	13
136	Structure of a [NiFe] hydrogenase maturation protease HycI provides insights into its substrate selectivity. *Biochemical and Biophysical Research Communications*, **2018**, 498, 782-788	3.4	4
135	A Phosphofructokinase Homolog from Pyrobaculum calidifontis Displays Kinase Activity towards Pyrimidine Nucleosides and Ribose 1-Phosphate. *Journal of Bacteriology*, **2018**, 200,	3.5	6
134	Crystal structures of a [NiFe] hydrogenase large subunit HyhL in an immature state in complex with a Ni chaperone HypA. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7045-7050	11.5	23
133	Development of an Enzymatic Cycling Method Using Pyruvate Kinase for Assaying Pyruvate or Phosphoenolpyruvate. *Current Biotechnology*, **2018**, 7, 125-131	0.6	2
132	Identification of the glucosamine kinase in the chitinolytic pathway of Thermococcus kodakarensis. *Journal of Bioscience and Bioengineering*, **2018**, 125, 320-326	3.3	7
131	Structural Study on the Reaction Mechanism of a Free Serine Kinase Involved in Cysteine Biosynthesis. *ACS Chemical Biology*, **2017**, 12, 1514-1523	4.9	7
130	An Enzyme System for the Production of -Inositol from Starch. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	26
129	Engineering of the Hyperthermophilic Archaeon Thermococcus kodakarensis for Chitin-Dependent Hydrogen Production. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	17
128	Structure and function of an ancestral-type □decarboxylating dehydrogenase from Thermococcus kodakarensis. *Biochemical Journal*, **2017**, 474, 105-122	3.8	4
127	An archaeal RNA binding protein, FAU-1, is a novel ribonuclease related to rRNA stability in Pyrococcus and Thermococcus. *Scientific Reports*, **2017**, 7, 12674	4.9	2
126	Possible function of the second RecJ-like protein in stalled replication fork repair by interacting with Hef. *Scientific Reports*, **2017**, 7, 16949	4.9	7
125	Metabolism Dealing with Thermal Degradation of NAD in the Hyperthermophilic Archaeon Thermococcus kodakarensis. *Journal of Bacteriology*, **2017**, 199,	3.5	9
124	Gene regulation of two ferredoxin:NADP oxidoreductases by the redox-responsive regulator SurR in Thermococcus kodakarensis. *Extremophiles*, **2017**, 21, 903-917	3	3

123	Genetic analyses of the functions of [NiFe]-hydrogenase maturation endopeptidases in the hyperthermophilic archaeon Thermococcus kodakarensis. *Extremophiles*, **2017**, 21, 27-39	3	8
122	The Cdc45/RecJ-like protein forms a complex with GINS and MCM, and is important for DNA replication in Thermococcus kodakarensis. *Nucleic Acids Research*, **2017**, 45, 10693-10705	20.1	18
121	An archaeal ADP-dependent serine kinase involved in cysteine biosynthesis and serine metabolism. *Nature Communications*, **2016**, 7, 13446	17.4	16
120	Crystal structure of ketopantoate reductase from Thermococcus kodakarensis complexed with NADP(.). *Acta Crystallographica Section F, Structural Biology Communications*, **2016**, 72, 369-75	1.1	2
119	Crystal structure of a [NiFe] hydrogenase maturation protease HybD from Thermococcus kodakarensis KOD1. *Proteins: Structure, Function and Bioinformatics*, **2016**, 84, 1321-7	4.2	12
118	Crystal structures of chitin binding domains of chitinase from Thermococcus kodakarensis KOD1. *FEBS Letters*, **2016**, 590, 298-304	3.8	13
117	Crystal structure of the TK2203 protein from Thermococcus kodakarensis, a putative extradiol dioxygenase. *Acta Crystallographica Section F, Structural Biology Communications*, **2016**, 72, 427-33	1.1	3
116	Crystal structure of archaeal ketopantoate reductase complexed with coenzyme a and 2-oxopantoate provides structural insights into feedback regulation. *Proteins: Structure, Function and Bioinformatics*, **2016**, 84, 374-82	4.2	5
115	Mutation design of a thermophilic Rubisco based on three-dimensional structure enhances its activity at ambient temperature. *Proteins: Structure, Function and Bioinformatics*, **2016**, 84, 1339-46	4.2	6
114	Lysine Biosynthesis of Thermococcus kodakarensis with the Capacity to Function as an Ornithine Biosynthetic System. *Journal of Biological Chemistry*, **2016**, 291, 21630-21643	5.4	10
113	A Structurally Novel Chitinase from the Chitin-Degrading Hyperthermophilic Archaeon Thermococcus chitonophagus. *Applied and Environmental Microbiology*, **2016**, 82, 3554-3562	4.8	12
112	Regulation of Coenzyme A Biosynthesis in the Hyperthermophilic Bacterium Thermotoga maritima. *Journal of Bacteriology*, **2016**, 198, 1993-2000	3.5	4
111	Crystal Structure and Product Analysis of an Archaeal myo-Inositol Kinase Reveal Substrate Recognition Mode and 3-OH Phosphorylation. *Biochemistry*, **2015**, 54, 3494-503	3.2	6
110	Structural basis of a Ni acquisition cycle for [NiFe] hydrogenase by Ni-metallochaperone HypA and its enhancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7701-6	11.5	43
109	A pentose bisphosphate pathway for nucleoside degradation in Archaea. *Nature Chemical Biology*, **2015**, 11, 355-60	11.7	48
108	Sodium-driven energy conversion for flagellar rotation of the earliest divergent hyperthermophilic bacterium. *Scientific Reports*, **2015**, 5, 12711	4.9	20
107	Overproduction of the membrane-bound [NiFe]-hydrogenase in Thermococcus kodakarensis and its effect on hydrogen production. *Frontiers in Microbiology*, **2015**, 6, 847	5.7	20
106	Polymorphobacter multimanifer gen. nov., sp. nov., a polymorphic bacterium isolated from Antarctic white rock. *International Journal of Systematic and Evolutionary Microbiology*, **2014**, 64, 2034-2040	2.3	19

105	Characterization of two members among the five ADP-forming acyl coenzyme A (Acyl-CoA) synthetases reveals the presence of a 2-(Imidazol-4-yl)acetyl-CoA synthetase in Thermococcus kodakarensis. *Journal of Bacteriology*, **2014**, 196, 140-7	3.5	14
104	An archaeal glutamate decarboxylase homolog functions as an aspartate decarboxylase and is involved in β-alanine and coenzyme A biosynthesis. *Journal of Bacteriology*, **2014**, 196, 1222-30	3.5	26
103	The tryptophan synthase β-subunit paralogs TrpB1 and TrpB2 in Thermococcus kodakarensis are both involved in tryptophan biosynthesis and indole salvage. *FEBS Journal*, **2014**, 281, 3113-25	5.7	7
102	Crystal structure of phosphopantothenate synthetase from Thermococcus kodakarensis. *Proteins: Structure, Function and Bioinformatics*, **2014**, 82, 1924-36	4.2	2
101	An alternative beads-on-a-string chromatin architecture in Thermococcus kodakarensis. *EMBO Reports*, **2013**, 14, 711-7	6.5	36
100	Genetic studies on the virus-like regions in the genome of hyperthermophilic archaeon, Thermococcus kodakarensis. *Extremophiles*, **2013**, 17, 153-60	3	8
99	Identification and structure of a novel archaeal HypB for [NiFe] hydrogenase maturation. *Journal of Molecular Biology*, **2013**, 425, 1627-40	6.5	20
98	Genomics of Thermophilic Bacteria and Archaea **2013**, 307-330		1
97	Programmable plasmid interference by the CRISPR-Cas system in Thermococcus kodakarensis. *RNA Biology*, **2013**, 10, 828-40	4.8	27
96	Lysobacter oligotrophicus sp. nov., isolated from an Antarctic freshwater lake in Antarctica. *International Journal of Systematic and Evolutionary Microbiology*, **2013**, 63, 3313-3318	2.2	38
95	CoA biosynthesis in archaea. *Biochemical Society Transactions*, **2013**, 41, 427-31	5.1	10
94	An uncharacterized member of the ribokinase family in Thermococcus kodakarensis exhibits myo-inositol kinase activity. *Journal of Biological Chemistry*, **2013**, 288, 20856-20867	5.4	9
93	Identification and characterization of an archaeal ketopantoate reductase and its involvement in regulation of coenzyme A biosynthesis. *Molecular Microbiology*, **2013**, 90, 307-21	4.1	13
92	Genetic examination of initial amino acid oxidation and glutamate catabolism in the hyperthermophilic archaeon Thermococcus kodakarensis. *Journal of Bacteriology*, **2013**, 195, 1940-8	3.5	20
91	Hydrogen Production by the Hyperthermophilic Archaeon Thermococcus kodakarensis. *Journal of the Japan Petroleum Institute*, **2013**, 56, 267-279	1	2
90	Comparative analyses of the two proliferating cell nuclear antigens from the hyperthermophilic archaeon, Thermococcus kodakarensis. *Genes To Cells*, **2012**, 17, 923-37	2.3	24
89	Rhodoligotrophos appendicifer gen. nov., sp. nov., an appendaged bacterium isolated from a freshwater Antarctic lake. *International Journal of Systematic and Evolutionary Microbiology*, **2012**, 62, 1945-1950	2.2	16
88	A detailed biochemical characterization of phosphopantothenate synthetase, a novel enzyme involved in coenzyme A biosynthesis in the Archaea. *Extremophiles*, **2012**, 16, 819-28	3	17

87	Biochemical characterization of pantoate kinase, a novel enzyme necessary for coenzyme A biosynthesis in the Archaea. *Journal of Bacteriology*, **2012**, 194, 5434-43	3.5	24
86	Enzymatic characterization of AMP phosphorylase and ribose-1,5-bisphosphate isomerase functioning in an archaeal AMP metabolic pathway. *Journal of Bacteriology*, **2012**, 194, 6847-55	3.5	32
85	An archaeal histone is required for transformation of Thermococcus kodakarensis. *Journal of Bacteriology*, **2012**, 194, 6864-74	3.5	25
84	Dynamic, ligand-dependent conformational change triggers reaction of ribose-1,5-bisphosphate isomerase from Thermococcus kodakarensis KOD1. *Journal of Biological Chemistry*, **2012**, 287, 20784-96	5.4	20
83	Overview of the genetic tools in the Archaea. *Frontiers in Microbiology*, **2012**, 3, 337	5.7	34
82	Novel metabolic pathways in Archaea. *Current Opinion in Microbiology*, **2011**, 14, 307-14	7.9	69
81	Isoprenoid biosynthesis in Archaea--biochemical and evolutionary implications. *Research in Microbiology*, **2011**, 162, 39-52	4	94
80	Biochemical and genetical analyses of the three mcm genes from the hyperthermophilic archaeon, Thermococcus kodakarensis. *Genes To Cells*, **2011**, 16, 1176-89	2.3	29
79	Biochemical and genetic characterization of the three metabolic routes in Thermococcus kodakarensis linking glyceraldehyde 3-phosphate and 3-phosphoglycerate. *Molecular Microbiology*, **2011**, 81, 1300-12	4.1	41
78	Model organisms for genetics in the domain Archaea: methanogens, halophiles, Thermococcales and Sulfolobales. *FEMS Microbiology Reviews*, **2011**, 35, 577-608	15.1	156
77	Application of hyperthermophiles and their enzymes. *Current Opinion in Biotechnology*, **2011**, 22, 618-26	11.4	66
76	The crystal structure of an esterase from the hyperthermophilic microorganism Pyrobaculum calidifontis VA1 explains its enantioselectivity. *Applied Microbiology and Biotechnology*, **2011**, 91, 1061-72	5.7	50
75	Histone and TK0471/TrmBL2 form a novel heterogeneous genome architecture in the hyperthermophilic archaeon Thermococcus kodakarensis. *Molecular Biology of the Cell*, **2011**, 22, 386-98	3.5	32
74	Thermococcus kodakarensis as a host for gene expression and protein secretion. *Applied and Environmental Microbiology*, **2011**, 77, 2392-8	4.8	35
73	Constrictibacter antarcticus gen. nov., sp. nov., a cryptoendolithic micro-organism from Antarctic white rock. *International Journal of Systematic and Evolutionary Microbiology*, **2011**, 61, 1973-1980	2.2	19
72	Distinct physiological roles of the three [NiFe]-hydrogenase orthologs in the hyperthermophilic archaeon Thermococcus kodakarensis. *Journal of Bacteriology*, **2011**, 193, 3109-16	3.5	57
71	Formate-driven growth coupled with H(2) production. *Nature*, **2010**, 467, 352-5	50.4	169
70	Structure-based catalytic optimization of a type III Rubisco from a hyperthermophile. *Journal of Biological Chemistry*, **2010**, 285, 39339-47	5.4	18

69	Thermococcus kodakarensis mutants deficient in di-myo-inositol phosphate use aspartate to cope with heat stress. *Journal of Bacteriology*, **2010**, 192, 191-7	3.5	30
68	Identification of the Phr-dependent heat shock regulon in the hyperthermophilic archaeon, Thermococcus kodakaraensis. *Journal of Biochemistry*, **2010**, 147, 361-70	3.1	17
67	Microbial Inorganic Carbon Fixation **2010**,		6
66	Pantoate kinase and phosphopantothenate synthetase, two novel enzymes necessary for CoA biosynthesis in the Archaea. *Journal of Biological Chemistry*, **2009**, 284, 28137-28145	5.4	63
65	"Short-chain" alpha-1,4-glucan phosphorylase having a truncated N-terminal domain: functional expression and characterization of the enzyme from Sulfolobus solfataricus. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2009**, 1794, 1709-14	4	22
64	Crystal structure of HypA, a nickel-binding metallochaperone for [NiFe] hydrogenase maturation. *Journal of Molecular Biology*, **2009**, 394, 448-59	6.5	62
63	2P-008 Structure-based optimization for catalytic activity of a Type III Rubisco from a hyperthermophile(Protein:Structure,The 47th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2009**, 49, S107	0	
62	Polarity in archaeal operon transcription in Thermococcus kodakaraensis. *Journal of Bacteriology*, **2008**, 190, 2244-8	3.5	51
61	Disruption of a sugar transporter gene cluster in a hyperthermophilic archaeon using a host-marker system based on antibiotic resistance. *Journal of Bacteriology*, **2007**, 189, 2683-91	3.5	92
60	A global transcriptional regulator in Thermococcus kodakaraensis controls the expression levels of both glycolytic and gluconeogenic enzyme-encoding genes. *Journal of Biological Chemistry*, **2007**, 282, 33659-33670	5.4	68
59	A novel ADP-forming succinyl-CoA synthetase in Thermococcus kodakaraensis structurally related to the archaeal nucleoside diphosphate-forming acetyl-CoA synthetases. *Journal of Biological Chemistry*, **2007**, 282, 26963-26970	5.4	31
58	Crystal structures of [NiFe] hydrogenase maturation proteins HypC, HypD, and HypE: insights into cyanation reaction by thiol redox signaling. *Molecular Cell*, **2007**, 27, 29-40	17.6	93
57	Archaeal type III RuBisCOs function in a pathway for AMP metabolism. *Science*, **2007**, 315, 1003-6	33.3	164
56	The ribulose monophosphate pathway substitutes for the missing pentose phosphate pathway in the archaeon Thermococcus kodakaraensis. *Journal of Bacteriology*, **2006**, 188, 4698-704	3.5	91
55	Phototrophic growth of a Rubisco-deficient mesophilic purple nonsulfur bacterium harboring a Type III Rubisco from a hyperthermophilic archaeon. *Journal of Biotechnology*, **2006**, 124, 532-44	3.7	11
54	Continuous hydrogen production by the hyperthermophilic archaeon, Thermococcus kodakaraensis KOD1. *Journal of Biotechnology*, **2005**, 116, 271-82	3.7	136
53	Recent progress towards the application of hyperthermophiles and their enzymes. *Current Opinion in Chemical Biology*, **2005**, 9, 166-73	9.7	83
52	Biochemical properties of a putative signal peptide peptidase from the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1. *Journal of Bacteriology*, **2005**, 187, 7072-80	3.5	12

51	Characterization of a novel glucosamine-6-phosphate deaminase from a hyperthermophilic archaeon. *Journal of Bacteriology*, **2005**, 187, 7038-44	3.5	22
50	Improved and versatile transformation system allowing multiple genetic manipulations of the hyperthermophilic archaeon Thermococcus kodakaraensis. *Applied and Environmental Microbiology*, **2005**, 71, 3889-99	4.8	180
49	Complete genome sequence of the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1 and comparison with Pyrococcus genomes. *Genome Research*, **2005**, 15, 352-63	9.7	343
48	Description of Thermococcus kodakaraensis sp. nov., a well studied hyperthermophilic archaeon previously reported as Pyrococcus sp. KOD1. *Archaea*, **2004**, 1, 263-7	2	235
47	On-site manipulation of single whole-genome DNA molecules using optical tweezers. *Applied Physics Letters*, **2004**, 85, 5090-5092	3.4	20
46	Reverse gyrase is not a prerequisite for hyperthermophilic life. *Journal of Bacteriology*, **2004**, 186, 4829-33	3.5	105
45	Among multiple phosphomannomutase gene orthologues, only one gene encodes a protein with phosphoglucomutase and phosphomannomutase activities in Thermococcus kodakaraensis. *Journal of Bacteriology*, **2004**, 186, 6070-6	3.5	24
44	Genetic evidence identifying the true gluconeogenic fructose-1,6-bisphosphatase in Thermococcus kodakaraensis and other hyperthermophiles. *Journal of Bacteriology*, **2004**, 186, 5799-807	3.5	85
43	Concerted action of diacetylchitobiose deacetylase and exo-beta-D-glucosaminidase in a novel chitinolytic pathway in the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1. *Journal of Biological Chemistry*, **2004**, 279, 30021-7	5.4	64
42	Thermostable carboxylesterases from hyperthermophiles. *Tetrahedron: Asymmetry*, **2004**, 15, 2729-2735		17
41	Biochemical properties and regulated gene expression of the superoxide dismutase from the facultatively aerobic hyperthermophile Pyrobaculum calidifontis. *Journal of Bacteriology*, **2003**, 185, 6340-7	3.5	32
40	A decrease in cytotoxic and haemolytic activities by inactivation of a single enterotoxin gene in Bacillus cereus Cx5. *World Journal of Microbiology and Biotechnology*, **2003**, 19, 831-837	4.4	3
39	Targeted gene disruption by homologous recombination in the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1. *Journal of Bacteriology*, **2003**, 185, 210-20	3.5	231
38	Characterization of an exo-beta-D-glucosaminidase involved in a novel chitinolytic pathway from the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1. *Journal of Bacteriology*, **2003**, 185, 5175-81	3.5	86
37	Pyrobaculum calidifontis sp. nov., a novel hyperthermophilic archaeon that grows in atmospheric air. *Archaea*, **2002**, 1, 113-21	2	73
36	Gene cloning and characterization of fructose-1,6-bisphosphate aldolase from the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1. *Journal of Bioscience and Bioengineering*, **2002**, 94, 237-243	3.3	24
35	Microbial enzymes involved in carbon dioxide fixation. *Journal of Bioscience and Bioengineering*, **2002**, 94, 497-505	3.3	61
34	Substrate recognition and fidelity of strand joining by an archaeal DNA ligase. *FEBS Journal*, **2002**, 269, 650-6		27

33	Characterization of isocitrate dehydrogenase from the green sulfur bacterium Chlorobium limicola. A carbon dioxide-fixing enzyme in the reductive tricarboxylic acid cycle. *FEBS Journal*, **2002**, 269, 1926-31		37
32	Kinetic and biochemical analyses on the reaction mechanism of a bacterial ATP-citrate lyase. *FEBS Journal*, **2002**, 269, 3409-16		19
31	Extremely stable and versatile carboxylesterase from a hyperthermophilic archaeon. *Applied and Environmental Microbiology*, **2002**, 68, 3925-31	4.8	147
30	The unique pentagonal structure of an archaeal Rubisco is essential for its high thermostability. *Journal of Biological Chemistry*, **2002**, 277, 31656-62	5.4	55
29	A membrane-bound archaeal Lon protease displays ATP-independent proteolytic activity towards unfolded proteins and ATP-dependent activity for folded proteins. *Journal of Bacteriology*, **2002**, 184, 3689-98	3.5	54
28	A novel candidate for the true fructose-1,6-bisphosphatase in archaea. *Journal of Biological Chemistry*, **2002**, 277, 30649-55	5.4	63
27	Characterization of isocitrate dehydrogenase from the green sulfur bacterium Chlorobium limicola **2002**, 269, 1926		5
26	Ribulose-1,5-bisphosphate carboxylase/oxygenase from Thermococcus kodakaraensis KOD1. *Methods in Enzymology*, **2001**, 331, 353-65	1.7	13
25	ATP-citrate lyase from the green sulfur bacterium Chlorobium limicola is a heteromeric enzyme composed of two distinct gene products. *FEBS Journal*, **2001**, 268, 1670-1678		47
24	Crystal structure of a novel-type archaeal rubisco with pentagonal symmetry. *Structure*, **2001**, 9, 473-81	5.2	67
23	Anthranilate synthase without an LLES motif from a hyperthermophilic archaeon is inhibited by tryptophan. *Biochemical and Biophysical Research Communications*, **2001**, 281, 858-65	3.4	12
22	Biochemical analysis of a thermostable tryptophan synthase from a hyperthermophilic archaeon. *FEBS Journal*, **2000**, 267, 6369-77		10
21	Anti-phytochelatin monoclonal antibody. *Biotechnology Letters*, **2000**, 22, 1423-1428	3	2
20	A DNA ligase from a hyperthermophilic archaeon with unique cofactor specificity. *Journal of Bacteriology*, **2000**, 182, 6424-33	3.5	53
19	Presence of a structurally novel type ribulose-bisphosphate carboxylase/oxygenase in the hyperthermophilic archaeon, Pyrococcus kodakaraensis KOD1. *Journal of Biological Chemistry*, **1999** , 274, 5078-82	5.4	76
18	Gene analysis and enzymatic properties of thermostable beta-glycosidase from Pyrococcus kodakaraensis KOD1. *Journal of Bioscience and Bioengineering*, **1999**, 88, 130-5	3.3	23
17	A unique DNase activity shares the active site with ATPase activity of the RecA/Rad51 homologue (Pk-REC) from a hyperthermophilic archaeon. *FEBS Letters*, **1999**, 445, 111-4	3.8	6
16	Ribulose bisphosphate carboxylase/oxygenase from the hyperthermophilic archaeon Pyrococcus kodakaraensis KOD1 is composed solely of large subunits and forms a pentagonal structure. *Journal of Molecular Biology*, **1999**, 293, 57-66	6.5	46

15	A regulatory factor, Fil1p, involved in derepression of the isocitrate lyase gene in Saccharomyces cerevisiae--a possible mitochondrial protein necessary for protein synthesis in mitochondria. *FEBS Journal*, **1998**, 256, 212-20		20
14	Gene analysis of an NADP-linked isocitrate dehydrogenase localized in peroxisomes of the n-alkane-assimilating yeast Candida tropicalis. *FEBS Journal*, **1997**, 250, 205-11		4
13	Derepression of gene expression mediated by the 5Tupstream region of the isocitrate lyase gene of Candida tropicalis is controlled by two distinct regulatory pathways in Saccharomyces cerevisiae. *FEBS Journal*, **1997**, 243, 748-52		10
12	Characterization of the intron-containing citrate synthase gene from the alkanotrophic yeast Candida tropicalis: cloning and expression in Saccharomyces cerevisiae. *Archives of Microbiology*, **1997**, 168, 8-15	3	6
11	Immunochemically distinct NADP-linked isocitrate dehydrogenase isozymes in mitochondria and peroxisomes of Candida tropicalis. *Archives of Microbiology*, **1997**, 168, 389-95	3	2
10	Peroxisomal and mitochondrial carnitine acetyltransferases of the n-alkane-assimilating yeast Candida Tropicalis. Analysis of gene structure and translation products. *FEBS Journal*, **1996**, 238, 845-52		11
9	Transcriptional regulation of peroxisomal glyoxylate cycle enzymes of an n-alkane-assimilating yeast, Candida tropicalis. *Annals of the New York Academy of Sciences*, **1996**, 804, 684-6	6.5	3
8	The upstream region of the isocitrate lyase gene (UPR-ICL) of Candida tropicalis induces gene expression in both Saccharomyces cerevisiae and Escherichia coli by acetate via two distinct promoters. *Archives of Microbiology*, **1995**, 163, 322-8	3	12
7	Novel NADP-linked isocitrate dehydrogenase present in peroxisomes of n-alkane-utilizing yeast, Candida tropicalis: comparison with mitochondrial NAD-linked isocitrate dehydrogenase. *Archives of Microbiology*, **1995**, 163, 104-11	3	11
6	Novel NADP-linked isocitrate dehydrogenase present in peroxisomes of n-alkane-utilizing yeast, Candida tropicalis: comparison with mitochondrial NAD-linked isocitrate dehydrogenase **1995**, 163, 104		1
5	The upstream region of the isocitrate lyase gene (UPR-ICL) of Candida tropicalis induces gene expression in both Saccharomyces cerevisiae and Escherichia coli by acetate via two distinct promoters **1995**, 163, 322		2
4	Characterization of the catalase of the n-alkane-utilizing yeast Candida tropicalis functionally expressed in Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **1994**, 40, 682-6	5.7	7
3	Characterization of the catalase of the n-alkane-utilizing yeast Candida tropicalis functionally expressed in Saccharomyces cerevisiae **1994**, 40, 682		2
2	Genes encoding peroxisomal enzymes are not necessarily assigned on the same chromosome of an n-alkane-utilizable yeast Candida tropicalis. *FEBS Letters*, **1991**, 286, 61-3	3.8	10
1	Catalase gene of the yeast Candida tropicalis. Sequence analysis and comparison with peroxisomal and cytosolic catalases from other sources. *FEBS Journal*, **1987**, 170, 105-10		51