

Haruyuki Atomi

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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	Complete genome sequence of the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> KOD1 and comparison with <i>Pyrococcus</i> genomes. <i>Genome Research</i> , 2005 , 15, 352-63	9.7	343
157	Description of <i>Thermococcus kodakaraensis</i> sp. nov., a well studied hyperthermophilic archaeon previously reported as <i>Pyrococcus</i> sp. KOD1. <i>Archaea</i> , 2004 , 1, 263-7	2	235
156	Targeted gene disruption by homologous recombination in the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Bacteriology</i> , 2003 , 185, 210-20	3.5	231
155	Improved and versatile transformation system allowing multiple genetic manipulations of the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> . <i>Applied and Environmental Microbiology</i> , 2005 , 71, 3889-99	4.8	180
154	Formate-driven growth coupled with H ₂ production. <i>Nature</i> , 2010 , 467, 352-5	50.4	169
153	Archaeal type III RuBisCOs function in a pathway for AMP metabolism. <i>Science</i> , 2007 , 315, 1003-6	33.3	164
152	Model organisms for genetics in the domain Archaea: methanogens, halophiles, Thermococcales and Sulfolobales. <i>FEMS Microbiology Reviews</i> , 2011 , 35, 577-608	15.1	156
151	Extremely stable and versatile carboxylesterase from a hyperthermophilic archaeon. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 3925-31	4.8	147
150	Continuous hydrogen production by the hyperthermophilic archaeon, <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Biotechnology</i> , 2005 , 116, 271-82	3.7	136
149	Reverse gyrase is not a prerequisite for hyperthermophilic life. <i>Journal of Bacteriology</i> , 2004 , 186, 4829-33	33	105
148	Isoprenoid biosynthesis in Archaea--biochemical and evolutionary implications. <i>Research in Microbiology</i> , 2011 , 162, 39-52	4	94
147	Crystal structures of [NiFe] hydrogenase maturation proteins HypC, HypD, and HypE: insights into cyanation reaction by thiol redox signaling. <i>Molecular Cell</i> , 2007 , 27, 29-40	17.6	93
146	Disruption of a sugar transporter gene cluster in a hyperthermophilic archaeon using a host-marker system based on antibiotic resistance. <i>Journal of Bacteriology</i> , 2007 , 189, 2683-91	3.5	92
145	The ribulose monophosphate pathway substitutes for the missing pentose phosphate pathway in the archaeon <i>Thermococcus kodakaraensis</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 4698-704	3.5	91
144	A primordial and reversible TCA cycle in a facultatively chemolithoautotrophic thermophile. <i>Science</i> , 2018 , 359, 559-563	33.3	87
143	Characterization of an exo-beta-D-glucosaminidase involved in a novel chitinolytic pathway from the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Bacteriology</i> , 2003 , 185, 5175-81	3.5	86
142	Genetic evidence identifying the true gluconeogenic fructose-1,6-bisphosphatase in <i>Thermococcus kodakaraensis</i> and other hyperthermophiles. <i>Journal of Bacteriology</i> , 2004 , 186, 5799-807	3.5	85

141	Recent progress towards the application of hyperthermophiles and their enzymes. <i>Current Opinion in Chemical Biology</i> , 2005 , 9, 166-73	9.7	83
140	Presence of a structurally novel type ribulose-bisphosphate carboxylase/oxygenase in the hyperthermophilic archaeon, <i>Pyrococcus kodakaraensis</i> KOD1. <i>Journal of Biological Chemistry</i> , 1999 , 274, 5078-82	5.4	76
139	<i>Pyrobaculum calidifontis</i> sp. nov., a novel hyperthermophilic archaeon that grows in atmospheric air. <i>Archaea</i> , 2002 , 1, 113-21	2	73
138	Novel metabolic pathways in Archaea. <i>Current Opinion in Microbiology</i> , 2011 , 14, 307-14	7.9	69
137	A global transcriptional regulator in <i>Thermococcus kodakaraensis</i> controls the expression levels of both glycolytic and gluconeogenic enzyme-encoding genes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 33659-33670	5.4	68
136	Crystal structure of a novel-type archaeal rubisco with pentagonal symmetry. <i>Structure</i> , 2001 , 9, 473-81	5.2	67
135	Application of hyperthermophiles and their enzymes. <i>Current Opinion in Biotechnology</i> , 2011 , 22, 618-26	11.4	66
134	Concerted action of diacetylchitobiose deacetylase and exo-beta-D-glucosaminidase in a novel chitinolytic pathway in the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 30021-7	5.4	64
133	Pantoate kinase and phosphopantothenate synthetase, two novel enzymes necessary for CoA biosynthesis in the Archaea. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28137-28145	5.4	63
132	A novel candidate for the true fructose-1,6-bisphosphatase in archaea. <i>Journal of Biological Chemistry</i> , 2002 , 277, 30649-55	5.4	63
131	Crystal structure of HypA, a nickel-binding metallochaperone for [NiFe] hydrogenase maturation. <i>Journal of Molecular Biology</i> , 2009 , 394, 448-59	6.5	62
130	Microbial enzymes involved in carbon dioxide fixation. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 497-505	3.3	61
129	Distinct physiological roles of the three [NiFe]-hydrogenase orthologs in the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> . <i>Journal of Bacteriology</i> , 2011 , 193, 3109-16	3.5	57
128	The unique pentagonal structure of an archaeal Rubisco is essential for its high thermostability. <i>Journal of Biological Chemistry</i> , 2002 , 277, 31656-62	5.4	55
127	A membrane-bound archaeal Lon protease displays ATP-independent proteolytic activity towards unfolded proteins and ATP-dependent activity for folded proteins. <i>Journal of Bacteriology</i> , 2002 , 184, 3689-98	3.5	54
126	A DNA ligase from a hyperthermophilic archaeon with unique cofactor specificity. <i>Journal of Bacteriology</i> , 2000 , 182, 6424-33	3.5	53
125	Polarity in archaeal operon transcription in <i>Thermococcus kodakaraensis</i> . <i>Journal of Bacteriology</i> , 2008 , 190, 2244-8	3.5	51
124	Catalase gene of the yeast <i>Candida tropicalis</i> . Sequence analysis and comparison with peroxisomal and cytosolic catalases from other sources. <i>FEBS Journal</i> , 1987 , 170, 105-10		51

123	The crystal structure of an esterase from the hyperthermophilic microorganism <i>Pyrobaculum calidifontis</i> VA1 explains its enantioselectivity. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 1061-72 ^{5.7}	50
122	A pentose biphosphate pathway for nucleoside degradation in Archaea. <i>Nature Chemical Biology</i> , 2015 , 11, 355-60	11.7 48
121	ATP-citrate lyase from the green sulfur bacterium <i>Chlorobium limicola</i> is a heteromeric enzyme composed of two distinct gene products. <i>FEBS Journal</i> , 2001 , 268, 1670-1678	47
120	Ribulose biphosphate carboxylase/oxygenase from the hyperthermophilic archaeon <i>Pyrococcus kodakaraensis</i> KOD1 is composed solely of large subunits and forms a pentagonal structure. <i>Journal of Molecular Biology</i> , 1999 , 293, 57-66	6.5 46
119	Structural basis of a Ni acquisition cycle for [NiFe] hydrogenase by Ni-metallochaperone HypA and its enhancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7701-6	11.5 43
118	Biochemical and genetic characterization of the three metabolic routes in <i>Thermococcus kodakarensis</i> linking glyceraldehyde 3-phosphate and 3-phosphoglycerate. <i>Molecular Microbiology</i> , 2011 , 81, 1300-12	4.1 41
117	<i>Lysobacter oligotrophicus</i> sp. nov., isolated from an Antarctic freshwater lake in Antarctica. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013 , 63, 3313-3318	2.2 38
116	Characterization of isocitrate dehydrogenase from the green sulfur bacterium <i>Chlorobium limicola</i> . A carbon dioxide-fixing enzyme in the reductive tricarboxylic acid cycle. <i>FEBS Journal</i> , 2002 , 269, 1926-31	37
115	An alternative beads-on-a-string chromatin architecture in <i>Thermococcus kodakarensis</i> . <i>EMBO Reports</i> , 2013 , 14, 711-7	6.5 36
114	<i>Thermococcus kodakarensis</i> as a host for gene expression and protein secretion. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 2392-8	4.8 35
113	Overview of the genetic tools in the Archaea. <i>Frontiers in Microbiology</i> , 2012 , 3, 337	5.7 34
112	Histone and TK0471/TrmBL2 form a novel heterogeneous genome architecture in the hyperthermophilic archaeon <i>Thermococcus kodakarensis</i> . <i>Molecular Biology of the Cell</i> , 2011 , 22, 386-98 ^{3.5}	32
111	Enzymatic characterization of AMP phosphorylase and ribose-1,5-bisphosphate isomerase functioning in an archaeal AMP metabolic pathway. <i>Journal of Bacteriology</i> , 2012 , 194, 6847-55	3.5 32
110	Biochemical properties and regulated gene expression of the superoxide dismutase from the facultatively aerobic hyperthermophile <i>Pyrobaculum calidifontis</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 6340-7 ^{5.7}	32
109	A novel ADP-forming succinyl-CoA synthetase in <i>Thermococcus kodakaraensis</i> structurally related to the archaeal nucleoside diphosphate-forming acetyl-CoA synthetases. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26963-26970	5.4 31
108	<i>Thermococcus kodakarensis</i> mutants deficient in di-myo-inositol phosphate use aspartate to cope with heat stress. <i>Journal of Bacteriology</i> , 2010 , 192, 191-7	3.5 30
107	Biochemical and genetical analyses of the three mcm genes from the hyperthermophilic archaeon, <i>Thermococcus kodakarensis</i> . <i>Genes To Cells</i> , 2011 , 16, 1176-89	2.3 29
106	Programmable plasmid interference by the CRISPR-Cas system in <i>Thermococcus kodakarensis</i> . <i>RNA Biology</i> , 2013 , 10, 828-40	4.8 27

105	Substrate recognition and fidelity of strand joining by an archaeal DNA ligase. <i>FEBS Journal</i> , 2002 , 269, 650-6		27
104	An Enzyme System for the Production of -Inositol from Starch. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	26
103	An archaeal glutamate decarboxylase homolog functions as an aspartate decarboxylase and is involved in L-alanine and coenzyme A biosynthesis. <i>Journal of Bacteriology</i> , 2014 , 196, 1222-30	3.5	26
102	An archaeal histone is required for transformation of <i>Thermococcus kodakarensis</i> . <i>Journal of Bacteriology</i> , 2012 , 194, 6864-74	3.5	25
101	Comparative analyses of the two proliferating cell nuclear antigens from the hyperthermophilic archaeon, <i>Thermococcus kodakarensis</i> . <i>Genes To Cells</i> , 2012 , 17, 923-37	2.3	24
100	Biochemical characterization of pantoate kinase, a novel enzyme necessary for coenzyme A biosynthesis in the Archaea. <i>Journal of Bacteriology</i> , 2012 , 194, 5434-43	3.5	24
99	Among multiple phosphomannomutase gene orthologues, only one gene encodes a protein with phosphoglucomutase and phosphomannomutase activities in <i>Thermococcus kodakaraensis</i> . <i>Journal of Bacteriology</i> , 2004 , 186, 6070-6	3.5	24
98	Gene cloning and characterization of fructose-1,6-bisphosphate aldolase from the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 237-243	3.3	24
97	Crystal structures of a [NiFe] hydrogenase large subunit HyhL in an immature state in complex with a Ni chaperone HypA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7045-7050	11.5	23
96	Gene analysis and enzymatic properties of thermostable beta-glycosidase from <i>Pyrococcus kodakaraensis</i> KOD1. <i>Journal of Bioscience and Bioengineering</i> , 1999 , 88, 130-5	3.3	23
95	"Short-chain" alpha-1,4-glucan phosphorylase having a truncated N-terminal domain: functional expression and characterization of the enzyme from <i>Sulfolobus solfataricus</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 1709-14	4	22
94	Characterization of a novel glucosamine-6-phosphate deaminase from a hyperthermophilic archaeon. <i>Journal of Bacteriology</i> , 2005 , 187, 7038-44	3.5	22
93	Identification and structure of a novel archaeal HypB for [NiFe] hydrogenase maturation. <i>Journal of Molecular Biology</i> , 2013 , 425, 1627-40	6.5	20
92	Sodium-driven energy conversion for flagellar rotation of the earliest divergent hyperthermophilic bacterium. <i>Scientific Reports</i> , 2015 , 5, 12711	4.9	20
91	Overproduction of the membrane-bound [NiFe]-hydrogenase in <i>Thermococcus kodakarensis</i> and its effect on hydrogen production. <i>Frontiers in Microbiology</i> , 2015 , 6, 847	5.7	20
90	Genetic examination of initial amino acid oxidation and glutamate catabolism in the hyperthermophilic archaeon <i>Thermococcus kodakarensis</i> . <i>Journal of Bacteriology</i> , 2013 , 195, 1940-8	3.5	20
89	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, 20784-96	5.4	20
88	A regulatory factor, Fil1p, involved in derepression of the isocitrate lyase gene in <i>Saccharomyces cerevisiae</i> --a possible mitochondrial protein necessary for protein synthesis in mitochondria. <i>FEBS Journal</i> , 1998 , 256, 212-20		20

87	On-site manipulation of single whole-genome DNA molecules using optical tweezers. <i>Applied Physics Letters</i> , 2004 , 85, 5090-5092	3.4	20
86	Polymorphobacter multimanifer gen. nov., sp. nov., a polymorphic bacterium isolated from Antarctic white rock. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014 , 64, 2034-2040	2.2	19
85	Constrictibacter antarcticus gen. nov., sp. nov., a cryptoendolithic micro-organism from Antarctic white rock. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011 , 61, 1973-1980	2.2	19
84	Kinetic and biochemical analyses on the reaction mechanism of a bacterial ATP-citrate lyase. <i>FEBS Journal</i> , 2002 , 269, 3409-16		19
83	The Cdc45/RecJ-like protein forms a complex with GINS and MCM, and is important for DNA replication in <i>Thermococcus kodakarensis</i> . <i>Nucleic Acids Research</i> , 2017 , 45, 10693-10705	20.1	18
82	Structure-based catalytic optimization of a type III Rubisco from a hyperthermophile. <i>Journal of Biological Chemistry</i> , 2010 , 285, 39339-47	5.4	18
81	Engineering of the Hyperthermophilic Archaeon <i>Thermococcus kodakarensis</i> for Chitin-Dependent Hydrogen Production. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	17
80	A detailed biochemical characterization of phosphopantothenate synthetase, a novel enzyme involved in coenzyme A biosynthesis in the Archaea. <i>Extremophiles</i> , 2012 , 16, 819-28	3	17
79	Identification of the Phr-dependent heat shock regulon in the hyperthermophilic archaeon, <i>Thermococcus kodakaraensis</i> . <i>Journal of Biochemistry</i> , 2010 , 147, 361-70	3.1	17
78	Thermostable carboxylesterases from hyperthermophiles. <i>Tetrahedron: Asymmetry</i> , 2004 , 15, 2729-2735		17
77	An archaeal ADP-dependent serine kinase involved in cysteine biosynthesis and serine metabolism. <i>Nature Communications</i> , 2016 , 7, 13446	17.4	16
76	Rhodoligotrophos appendicifer gen. nov., sp. nov., an appendaged bacterium isolated from a freshwater Antarctic lake. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012 , 62, 1945-1950	2.2	16
75	Degradation of complex arabinoxylans by human colonic Bacteroidetes. <i>Nature Communications</i> , 2021 , 12, 459	17.4	15
74	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 <i>Thermococcus kodakarensis</i> . <i>Journal of Bacteriology</i> , 2014 , 196, 140-7	3.5	14
73	Crystal structures of chitin binding domains of chitinase from <i>Thermococcus kodakarensis</i> KOD1. <i>FEBS Letters</i> , 2016 , 590, 298-304	3.8	13
72	Identification of a pyrophosphate-dependent kinase and its donor selectivity determinants. <i>Nature Communications</i> , 2018 , 9, 1765	17.4	13
71	Identification and characterization of an archaeal ketopantoate reductase and its involvement in regulation of coenzyme A biosynthesis. <i>Molecular Microbiology</i> , 2013 , 90, 307-21	4.1	13
70	Ribulose-1,5-bisphosphate carboxylase/oxygenase from <i>Thermococcus kodakaraensis</i> KOD1. <i>Methods in Enzymology</i> , 2001 , 331, 353-65	1.7	13

69	Crystal structure of a [NiFe] hydrogenase maturation protease HybD from <i>Thermococcus kodakarensis</i> KOD1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 1321-7	4.2	12
68	Biochemical properties of a putative signal peptide peptidase from the hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Bacteriology</i> , 2005 , 187, 7072-80	3.5	12
67	Anthranilate synthase without an LLES motif from a hyperthermophilic archaeon is inhibited by tryptophan. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 281, 858-65	3.4	12
66	The upstream region of the isocitrate lyase gene (UPR-ICL) of <i>Candida tropicalis</i> induces gene expression in both <i>Saccharomyces cerevisiae</i> and <i>Escherichia coli</i> by acetate via two distinct promoters. <i>Archives of Microbiology</i> , 1995 , 163, 322-8	3	12
65	A Structurally Novel Chitinase from the Chitin-Degrading Hyperthermophilic Archaeon <i>Thermococcus chitonophagus</i> . <i>Applied and Environmental Microbiology</i> , 2016 , 82, 3554-3562	4.8	12
64	Thermophilic Degradation of Hemicellulose, a Critical Feedstock in the Production of Bioenergy and Other Value-Added Products. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	11
63	Phototrophic growth of a Rubisco-deficient mesophilic purple nonsulfur bacterium harboring a Type III Rubisco from a hyperthermophilic archaeon. <i>Journal of Biotechnology</i> , 2006 , 124, 532-44	3.7	11
62	Novel NADP-linked isocitrate dehydrogenase present in peroxisomes of n-alkane-utilizing yeast, <i>Candida tropicalis</i> : comparison with mitochondrial NAD-linked isocitrate dehydrogenase. <i>Archives of Microbiology</i> , 1995 , 163, 104-11	3	11
61	Peroxisomal and mitochondrial carnitine acetyltransferases of the n-alkane-assimilating yeast <i>Candida Tropicalis</i> . Analysis of gene structure and translation products. <i>FEBS Journal</i> , 1996 , 238, 845-52		11
60	CoA biosynthesis in archaea. <i>Biochemical Society Transactions</i> , 2013 , 41, 427-31	5.1	10
59	Derepression of gene expression mediated by the 5Tupstream region of the isocitrate lyase gene of <i>Candida tropicalis</i> is controlled by two distinct regulatory pathways in <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 1997 , 243, 748-52		10
58	Biochemical analysis of a thermostable tryptophan synthase from a hyperthermophilic archaeon. <i>FEBS Journal</i> , 2000 , 267, 6369-77		10
57	Genes encoding peroxisomal enzymes are not necessarily assigned on the same chromosome of an n-alkane-utilizable yeast <i>Candida tropicalis</i> . <i>FEBS Letters</i> , 1991 , 286, 61-3	3.8	10
56	Lysine Biosynthesis of <i>Thermococcus kodakarensis</i> with the Capacity to Function as an Ornithine Biosynthetic System. <i>Journal of Biological Chemistry</i> , 2016 , 291, 21630-21643	5.4	10
55	Phytoene production utilizing the isoprenoid biosynthesis capacity of <i>Thermococcus kodakarensis</i> . <i>Extremophiles</i> , 2018 , 22, 301-313	3	9
54	Metabolism Dealing with Thermal Degradation of NAD in the Hyperthermophilic Archaeon <i>Thermococcus kodakarensis</i> . <i>Journal of Bacteriology</i> , 2017 , 199,	3.5	9
53	An uncharacterized member of the ribokinase family in <i>Thermococcus kodakarensis</i> exhibits myo-inositol kinase activity. <i>Journal of Biological Chemistry</i> , 2013 , 288, 20856-20867	5.4	9
52	Structural Insight into [NiFe] Hydrogenase Maturation by Transient Complexes between Hyp Proteins. <i>Accounts of Chemical Research</i> , 2020 , 53, 875-886	24.3	9

51	Distinct Modified Nucleosides in tRNA from the Hyperthermophilic Archaeon <i>Thermococcus kodakarensis</i> and Requirement of tRNA mG10/m G10 Methyltransferase (Archaeal Trm11) for Survival at High Temperatures. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	8
50	Genetic studies on the virus-like regions in the genome of hyperthermophilic archaeon, <i>Thermococcus kodakarensis</i> . <i>Extremophiles</i> , 2013 , 17, 153-60	3	8
49	Genetic analyses of the functions of [NiFe]-hydrogenase maturation endopeptidases in the hyperthermophilic archaeon <i>Thermococcus kodakarensis</i> . <i>Extremophiles</i> , 2017 , 21, 27-39	3	8
48	Microbe Profile: : the model hyperthermophilic archaeon. <i>Microbiology (United Kingdom)</i> , 2019 , 165, 1166-1168	3	8
47	Structural Study on the Reaction Mechanism of a Free Serine Kinase Involved in Cysteine Biosynthesis. <i>ACS Chemical Biology</i> , 2017 , 12, 1514-1523	4.9	7
46	Identification of Dephospho-Coenzyme A (Dephospho-CoA) Kinase in <i>Thermococcus kodakarensis</i> and Elucidation of the Entire CoA Biosynthesis Pathway in Archaea. <i>MBio</i> , 2019 , 10,	7.8	7
45	Possible function of the second RecJ-like protein in stalled replication fork repair by interacting with Hef. <i>Scientific Reports</i> , 2017 , 7, 16949	4.9	7
44	The tryptophan synthase β -subunit paralogs TrpB1 and TrpB2 in <i>Thermococcus kodakarensis</i> are both involved in tryptophan biosynthesis and indole salvage. <i>FEBS Journal</i> , 2014 , 281, 3113-25	5.7	7
43	Characterization of the catalase of the n-alkane-utilizing yeast <i>Candida tropicalis</i> functionally expressed in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 1994 , 40, 682-6	5.7	7
42	Identification of the glucosamine kinase in the chitinolytic pathway of <i>Thermococcus kodakarensis</i> . <i>Journal of Bioscience and Bioengineering</i> , 2018 , 125, 320-326	3.3	7
41	Crystal Structure and Product Analysis of an Archaeal myo-Inositol Kinase Reveal Substrate Recognition Mode and 3-OH Phosphorylation. <i>Biochemistry</i> , 2015 , 54, 3494-503	3.2	6
40	A Phosphofructokinase Homolog from <i>Pyrobaculum caldifontis</i> Displays Kinase Activity towards Pyrimidine Nucleosides and Ribose 1-Phosphate. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	6
39	Microbial Inorganic Carbon Fixation 2010 ,		6
38	Characterization of the intron-containing citrate synthase gene from the alkanotrophic yeast <i>Candida tropicalis</i> : cloning and expression in <i>Saccharomyces cerevisiae</i> . <i>Archives of Microbiology</i> , 1997 , 168, 8-15	3	6
37	A unique DNase activity shares the active site with ATPase activity of the RecA/Rad51 homologue (Pk-REC) from a hyperthermophilic archaeon. <i>FEBS Letters</i> , 1999 , 445, 111-4	3.8	6
36	Mutation design of a thermophilic Rubisco based on three-dimensional structure enhances its activity at ambient temperature. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 1339-46	4.2	6
35	Hyperthermophilic Archaeon <i>Thermococcus kodakarensis</i> Utilizes a Four-Step Pathway for NAD Salvage through Nicotinamide Deamination. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	5
34	Crystal structure of archaeal ketopantoate reductase complexed with coenzyme a and 2-oxopantoate provides structural insights into feedback regulation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 374-82	4.2	5

33	Characterization of isocitrate dehydrogenase from the green sulfur bacterium <i>Chlorobium limicola</i> 2002 , 269, 1926		5
32	Structure and function of an ancestral-type β -decarboxylating dehydrogenase from <i>Thermococcus kodakarensis</i> . <i>Biochemical Journal</i> , 2017 , 474, 105-122	3.8	4
31	Different Proteins Mediate Step-Wise Chromosome Architectures in and. <i>Frontiers in Microbiology</i> , 2020 , 11, 1247	5.7	4
30	An ornithine β -aminotransferase required for growth in the absence of exogenous proline in the archaeon. <i>Journal of Biological Chemistry</i> , 2018 , 293, 3625-3636	5.4	4
29	Structure of a [NiFe] hydrogenase maturation protease Hycl provides insights into its substrate selectivity. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 498, 782-788	3.4	4
28	Gene analysis of an NADP-linked isocitrate dehydrogenase localized in peroxisomes of the n-alkane-assimilating yeast <i>Candida tropicalis</i> . <i>FEBS Journal</i> , 1997 , 250, 205-11		4
27	Regulation of Coenzyme A Biosynthesis in the Hyperthermophilic Bacterium <i>Thermotoga maritima</i> . <i>Journal of Bacteriology</i> , 2016 , 198, 1993-2000	3.5	4
26	Branched-chain polyamine stabilizes RNA polymerase at elevated temperatures in hyperthermophiles. <i>Amino Acids</i> , 2020 , 52, 275-285	3.5	4
25	Crystal structure of the TK2203 protein from <i>Thermococcus kodakarensis</i> , a putative extradiol dioxygenase. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016 , 72, 427-33	1.1	3
24	Gene regulation of two ferredoxin:NADP oxidoreductases by the redox-responsive regulator SurR in <i>Thermococcus kodakarensis</i> . <i>Extremophiles</i> , 2017 , 21, 903-917	3	3
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