Shinsuke Fujiwara

List of Publications by Year
in descending order

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72	1,614	361413	330143
papers	citations	20 h-index	37 g-index

72	72	72	1420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Complete genome sequence of the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1 and comparison with Pyrococcus genomes. Genome Research, 2005, 15, 352-363.	5.5	376
2	Hyperthermostable Protein Structure Maintained by Intra and Inter-helix Ion-pairs in Archaeal O6-Methylguanine-DNA Methyltransferase. Journal of Molecular Biology, 1999, 292, 707-716.	4.2	97
3	Extremophiles: Developments of their special functions and potential resources. Journal of Bioscience and Bioengineering, 2002, 94, 518-525.	2.2	56
4	Agmatine is essential for the cell growth ofThermococcus kodakaraensis. FEMS Microbiology Letters, 2008, 287, 113-120.	1.8	52
5	Ion Pairs Involved in Maintaining a Thermostable Structure of Glutamate Dehydrogenase from a Hyperthermophilic Archaeon. Biochemical and Biophysical Research Communications, 1998, 248, 920-926.	2.1	50
6	Effect of Growth Temperature and Growth Phase on the Lipid Composition of the Archaeal Membrane fromThermococcus kodakaraensis. Bioscience, Biotechnology and Biochemistry, 2009, 73, 104-108.	1.3	50
7	Dual Biosynthesis Pathway for Longer-Chain Polyamines in the Hyperthermophilic Archaeon Thermococcus kodakarensis. Journal of Bacteriology, 2010, 192, 4991-5001.	2.2	49
8	Effect of Heat Treatment on Proper Oligomeric Structure Formation of Thermostable Glutamate Dehydrogenase from a Hyperthermophilic Archaeon. Biochemical and Biophysical Research Communications, 1997, 241, 646-652.	2.1	38
9	Comparative analyses of the conformational stability of a hyperthermophilic protein and its mesophilic counterpart. FEBS Journal, 2001, 268, 4144-4150.	0.2	37
10	Identification of a Novel Aminopropyltransferase Involved in the Synthesis of Branched-Chain Polyamines in Hyperthermophiles. Journal of Bacteriology, 2014, 196, 1866-1876.	2.2	37
11	In vitro heat effect on heterooligomeric subunit assembly of thermostable indolepyruvate ferredoxin oxidoreductase. FEBS Letters, 1998, 434, 372-376.	2.8	34
12	The therapeutic and nutraceutical potential of agmatine, and its enhanced production using Aspergillus oryzae. Amino Acids, 2020, 52, 181-197.	2.7	34
13	Isolation and Characterization of a Second Subunit of Molecular Chaperonin from Pyrococcus kodakaraensis KOD1: Analysis of an ATPase-Deficient Mutant Enzyme. Applied and Environmental Microbiology, 1999, 65, 1801-1805.	3.1	33
14	Unusual enzyme characteristics of aspartyl-tRNA synthetase from hyperthermophilic archaeonPyrococcussp. KOD1. FEBS Letters, 1996, 394, 66-70.	2.8	29
15	Expression Profiles and Physiological Roles of Two Types of Molecular Chaperonins from the Hyperthermophilic Archaeon Thermococcus kodakarensis. Applied and Environmental Microbiology, 2008, 74, 7306-7312.	3.1	28
16	Two Kinds of Archaeal Chaperonin with Different Temperature Dependency from a Hyperthermophile. Biochemical and Biophysical Research Communications, 2001, 280, 581-587.	2.1	25
17	Expression Profiles and Physiological Roles of Two Types of Prefoldins from the Hyperthermophilic Archaeon Thermococcus kodakaraensis. Journal of Molecular Biology, 2008, 382, 298-311.	4.2	25
18	Property of cold inducible DEAD-box RNA helicase in hyperthermophilic archaea. Biochemical and Biophysical Research Communications, 2009, 389, 622-627.	2.1	23

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19	Identification of the Phr-dependent heat shock regulon in the hyperthermophilic archaeon, Thermococcus kodakaraensis. Journal of Biochemistry, 2010, 147, 361-370.	1.7	23
20	Functional Characterization of Recombinant Prefoldin Complexes from a Hyperthermophilic Archaeon, Thermococcus sp. Strain KS-1. Journal of Molecular Biology, 2008, 377, 972-983.	4.2	22
21	Branchedâ€Chain Polyamine Found in Hyperthermophiles Induces Unique Temperatureâ€Dependent Structural Changes in Genomeâ€Size DNA. ChemPhysChem, 2018, 19, 2299-2304.	2.1	22
22	Effect of polyamines on histone-induced DNA compaction of hyperthermophilic archaea. Journal of Bioscience and Bioengineering, 2000, 89, 103-106.	2.2	21
23	An Efficient Method Using Gluconacetobacter europaeus To Reduce an Unfavorable Flavor Compound, Acetoin, in Rice Vinegar Production. Applied and Environmental Microbiology, 2013, 79, 7334-7342.	3.1	21
24	Mutations to create thermostable reverse transcriptase with bacterial family A DNA polymerase from Thermotoga petrophila K4. Journal of Bioscience and Bioengineering, 2012, 113, 315-321.	2.2	20
25	Importance and Determinants of Induction of Cold-Induced DEAD RNA Helicase in the Hyperthermophilic Archaeon Thermococcus kodakarensis. Journal of Bacteriology, 2013, 195, 3442-3450.	2.2	20
26	Next-generation sequencing-based analysis of reverse transcriptase fidelity. Biochemical and Biophysical Research Communications, 2017, 492, 147-153.	2.1	20
27	Temperature-dependent modulation of farnesyl diphosphate/geranylgeranyl diphosphate synthase from hyperthermophilic archaea. Biochemical and Biophysical Research Communications, 2004, 325, 1066-1074.	2.1	19
28	Characterization of MobR, the 3-Hydroxybenzoate-responsive Transcriptional Regulator for the 3-Hydroxybenzoate Hydroxylase Gene of Comamonas testosteroni KH122-3s. Journal of Molecular Biology, 2006, 364, 863-877.	4.2	19
29	Enzymatic and structural characterization of type II isopentenyl diphosphate isomerase from hyperthermophilic archaeon Thermococcus kodakaraensis. Biochemical and Biophysical Research Communications, 2005, 331, 1127-1136.	2.1	17
30	Naturally occurring branched-chain polyamines induce a crosslinked meshwork structure in a giant DNA. Journal of Chemical Physics, 2016, 145, 235103.	3.0	17
31	Sequence and transcriptional studies of five clustered flagellin genes from hyperthermophilic archaeonPyrococcus kodakaraensisKOD1. FEMS Microbiology Letters, 1999, 178, 183-190.	1.8	15
32	Pol B, a Family B DNA Polymerase, in <i>Thermococcus kodakarensis</i> is Important for DNA Repair, but not DNA Replication. Microbes and Environments, 2019, 34, 316-326.	1.6	15
33	Accurate fidelity analysis of the reverse transcriptase by a modified next-generation sequencing. Enzyme and Microbial Technology, 2018, 115, 81-85.	3.2	14
34	Enhanced production of branched-chain amino acids by Gluconacetobacter europaeus with a specific regional deletion in a leucine responsive regulator. Journal of Bioscience and Bioengineering, 2014, 118, 607-615.	2.2	13
35	Enhanced detection of RNA by MMLV reverse transcriptase coupled with thermostable DNA polymerase and DNA/RNA helicase. Enzyme and Microbial Technology, 2017, 96, 111-120.	3.2	13
36	Agmatine Production by Aspergillus oryzae Is Elevated by Low pH during Solid-State Cultivation. Applied and Environmental Microbiology, 2018, 84, .	3.1	13

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37	High sensitive RNA detection by one-step RT-PCR using the genetically engineered variant of DNA polymerase with reverse transcriptase activity from hyperthermophilies. Journal of Bioscience and Bioengineering, 2018, 125, 275-281.	2.2	12
38	Indole-3-Glycerol-Phosphate Synthase Is Recognized by a Cold-Inducible Group II Chaperonin in Thermococcus kodakarensis. Applied and Environmental Microbiology, 2012, 78, 3806-3815.	3.1	11
39	Cysteine desulphurase plays an important role in environmental adaptation of the hyperthermophilic archaeon <scp>T</scp>hermococcus kodakarensis. Molecular Microbiology, 2014, 93, 331-345.	2.5	11
40	Application of a Euryarchaeota-Specific Helicase from Thermococcus kodakarensis for Noise Reduction in PCR. Applied and Environmental Microbiology, 2016, 82, 3022-3031.	3.1	11
41	Effective Trapping of Fruit Flies with Cultures of Metabolically Modified Acetic Acid Bacteria. Applied and Environmental Microbiology, 2015, 81, 2265-2273.	3.1	10
42	A Mutant Chaperonin That Is Functional at Lower Temperatures Enables Hyperthermophilic Archaea To Grow under Cold-Stress Conditions. Journal of Bacteriology, 2015, 197, 2642-2652.	2.2	10
43	Active site geometry of a novel aminopropyltransferase for biosynthesis of hyperthermophileâ€specific branchedâ€chain polyamine. FEBS Journal, 2017, 284, 3684-3701.	4.7	10
44	Polyamines in brown rice vinegar function as potent attractants for the spotted wing drosophila. Journal of Bioscience and Bioengineering, 2017, 123, 78-83.	2.2	10
45	Optimization of reaction condition of recombinase polymerase amplification to detect SARS-CoV-2 DNA and RNA using a statistical method. Biochemical and Biophysical Research Communications, 2021, 567, 195-200.	2.1	10
46	Efficient synthesis of trans-polyisoprene compounds using two thermostable enzymes in an organicâ€“aqueous dual-liquid phase system. Biochemical and Biophysical Research Communications, 2008, 365, 118-123.	2.1	9
47	Different roles of two transcription factor B proteins in the hyperthermophilic archaeon Thermococcus kodakarensis. Extremophiles, 2014, 18, 573-588.	2.3	9
48	Change in the plasmid copy number in acetic acid Bacteria in response to growth phase and acetic acid Concentration. Journal of Bioscience and Bioengineering, 2015, 119, 661-668.	2.2	9
49	Efficient in vitro synthesis of cis-polyisoprenes using a thermostable cis-prenyltransferase from a hyperthermophilic archaeon Thermococcus kodakaraensis. Journal of Biotechnology, 2009, 143, 151-156.	3.8	8
50	Conformational Stability of a Hyperthermophilic Protein in Various Conditions for Denaturation. Electrochemistry, 2001, 69, 949-952.	1.4	8
51	Biophysical analysis of heat-induced structural maturation of glutamate dehydrogenase from a hyperthermophilic archaeon. Journal of Bioscience and Bioengineering, 2004, 97, 305-309.	2.2	7
52	Leucine responsive regulatory protein is involved in methionine metabolism and polyamine homeostasis in acetic acid bacterium Komagataeibacter europaeus. Journal of Bioscience and Bioengineering, 2018, 125, 67-75.	2.2	7
53	Kinetic analysis of reverse transcriptase activity of bacterial family A DNA polymerases. Biochemical and Biophysical Research Communications, 2012, 427, 654-658.	2.1	6
54	Gene regulation of two ferredoxin:NADP+ oxidoreductases by the redox-responsive regulator SurR in Thermococcus kodakarensis. Extremophiles, 2017, 21, 903-917.	2.3	6

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55	Long-Chain and Branched Polyamines in Thermophilic Microbes. , 2015, , 15-25.		6
56	Alteration of enzymes and their application to nucleic acid amplification (Review). International Journal of Molecular Medicine, 2020, 46, 1633-1643.	4.0	6
57	Alteration of enzymes and their application to nucleic acid amplification (Review). International Journal of Molecular Medicine, 2020, 46, 1633-1643.	4.0	6
58	High sensitive one-step RT-PCR using MMLV reverse transcriptase, DNA polymerase with reverse transcriptase activity, and DNA/RNA helicase. Biochemical and Biophysical Research Communications, 2017, 487, 128-133.	2.1	5
59	Branched-chain polyamine stabilizes RNA polymerase at elevated temperatures in hyperthermophiles. Amino Acids, 2020, 52, 275-285.	2.7	5
60	Identification of a novel acetylated form of branched-chain polyamine from a hyperthermophilic archaeon Thermococcus kodakarensis. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1845-1849.	1.3	4
61	Thermostable DNA helicase improves the sensitivity of digital PCR. Biochemical and Biophysical Research Communications, 2018, 495, 2189-2194.	2.1	4
62	Genes regulated by branched-chain polyamine in the hyperthermophilic archaeon Thermococcus kodakarensis. Amino Acids, 2020, 52, 287-299.	2.7	4
63	The Câ€terminal flexible region of branchedâ€chain polyamine synthase facilitates substrate specificity and catalysis. FEBS Journal, 2019, 286, 3926-3940.	4.7	3
64	Identification of Branched-Chain Polyamines in Hyperthermophiles. Methods in Molecular Biology, 2018, 1694, 81-94.	0.9	3
65	Comparison of two glutamate producing enzymes from the hyperthermophilic archaeonPyrococcussp. KOD1. FEMS Microbiology Letters, 1998, 158, 243-248.	1.8	2
66	Function of a thermophilic archaeal chaperonin is enhanced by electrostatic interactions with its targets. Journal of Bioscience and Bioengineering, 2017, 124, 283-288.	2.2	2
67	Sequence and transcriptional studies of five clustered flagellin genes from hyperthermophilic archaeon Pyrococcus kodakaraensis KOD1. FEMS Microbiology Letters, 1999, 178, 183-190.	1.8	2
68	Leucine-Responsive Regulatory Protein in Acetic Acid Bacteria Is Stable and Functions at a Wide Range of Intracellular pH Levels. Journal of Bacteriology, 2021, 203, e0016221.	2.2	1
69	Branchedâ€Chain Polyamine Found in Hyperthermophiles Induces Unique Temperatureâ€Dependent Structural Changes in Genomeâ€Size DNA. ChemPhysChem, 2018, 19, 2284-2284.	2.1	0
70	Thermostable Enzymes of Hyperthermophilic Archaea. Journal of Japan Oil Chemists' Society, 1997, 46, 525-533,597.	0.3	0
71	Functional Distribution of Archaeal Chaperonins. Heat Shock Proteins, 2017, , 113-128.	0.2	0
72	Substrate Specificity of an Aminopropyltransferase and the Biosynthesis Pathway of Polyamines in the Hyperthermophilic Crenarchaeon Pyrobaculum calidifontis. Catalysts, 2022, 12, 567.	3.5	0