Yoshizumi Ishino

List of Publications by Year
in descending order

172 papers	5,974 citations	66343 42 h-index	91884 69 g-index
179 all docs	179 docs citations	179 times ranked	4056 citing authors

#	Article	IF	Citations
1	Expansion of the zinc metallo-hydrolase family of the Î²-lactamase fold. FEBS Letters, 2001, 503, 1-6.	2.8	287
2	History of CRISPR-Cas from Encounter with a Mysterious Repeated Sequence to Genome Editing Technology. Journal of Bacteriology, 2018, 200, .	2.2	273
3	Segmental Isotope Labeling for Protein NMR Using Peptide Splicing. Journal of the American Chemical Society, 1998, 120, 5591-5592.	13.7	232
4	Archaeal DNA Replication: Identifying the Pieces to Solve a Puzzle. Genetics, 1999, 152, 1249-1267.	2.9	179
5	Crystal structure of an archaeal DNA sliding clamp: Proliferating cell nuclear antigen from Pyrococcus furiosus. Protein Science, 2001, 10, 17-23.	7.6	143
6	A novel DNA polymerase in the hyperthermophilic archaeon,Pyrococcus furiosus: gene cloning, expression, and characterization. Genes To Cells, 1997, 2, 499-512.	1.2	128
7	Organization and nucleotide sequence of the DNA polymerase gene from the archaeon Pyrococcus furiosus. Nucleic Acids Research, 1993, 21, 259-265.	14.5	117
8	Role of the Escherichia coli RecQ DNA helicase in SOS signaling and genome stabilization at stalled replication forks. Genes and Development, 2004, 18, 1886-1897.	5.9	116
9	A Novel DNA Polymerase Family Found in<i>Archaea</i>. Journal of Bacteriology, 1998, 180, 2232-2236.	2.2	111
10	Both RadA and RadB Are Involved in Homologous Recombination inPyrococcus furiosus. Journal of Biological Chemistry, 2000, 275, 33782-33790.	3.4	111
11	Crystal Structure of an Archaeal Intein-encoded Homing Endonuclease PI-PfuI. Journal of Molecular Biology, 2000, 300, 889-901.	4.2	111
12	Open clamp structure in the clamp-loading complex visualized by electron microscopic image analysis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13795-13800.	7.1	109
13	X-Ray and Biochemical Anatomy of an Archaeal XPF/Rad1/Mus81 Family Nuclease. Structure, 2003, 11, 445-457.	3.3	101
14	Crystal Structure of the Archaeal Holliday Junction Resolvase Hjc and Implications for DNA Recognition. Structure, 2001, 9, 197-204.	3.3	96
15	DNA polymerases as useful reagents for biotechnology Ã¢â,¬â€œ the history of developmental research in the field. Frontiers in Microbiology, 2014, 5, 465.	3.5	94
16	Functional Interactions of a Homolog of Proliferating Cell Nuclear Antigen with DNA Polymerases in<i>Archaea</i>. Journal of Bacteriology, 1999, 181, 6591-6599.	2.2	94
17	Novel endonuclease in Archaea cleaving DNA with various branched structure.. Genes and Genetic Systems, 2002, 77, 227-241.	0.7	88
18	Genetic analysis of DNA repair in the hyperthermophilic archaeon, Thermococcus kodakaraensis. Genes and Genetic Systems, 2010, 85, 243-257.	0.7	82

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19	Splicing of the Mycobacteriophage Bethlehem DnaB Intein. Journal of Biological Chemistry, 2010, 285, 2515-2526.	3.4	82
20	Replication Protein A in Pyrococcus furiosus Is Involved in Homologous DNA Recombination. Journal of Biological Chemistry, 2001, 276, 25654-25660.	3.4	81
21	Crystal Structure and Functional Implications of Pyrococcus furiosus Hef Helicase Domain Involved in Branched DNA Processing. Structure, 2005, 13, 143-153.	3.3	81
22	Cooperation of the N-terminal Helicase and C-terminal Endonuclease Activities of Archaeal Hef Protein in Processing Stalled Replication Forks. Journal of Biological Chemistry, 2004, 279, 53175-53185.	3.4	74
23	Archaeal primase. Current Biology, 2001, 11, 452-456.	3.9	71
24	Mechanism of replication machinery assembly as revealed by the DNA ligaseâ€"PCNAâ€"DNA complex architecture. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4647-4652.	7.1	71
25	Atomic Structure of the Clamp Loader Small Subunit from Pyrococcus furiosus. Molecular Cell, 2001, 8, 455-463.	9.7	69
26	The Archaeal DNA Primase. Journal of Biological Chemistry, 2001, 276, 45484-45490.	3.4	66
27	Biochemical Analysis of Replication Factor C from the Hyperthermophilic Archaeon Pyrococcus furiosus. Journal of Bacteriology, 2001, 183, 2614-2623.	2.2	64
28	Identification of a mismatch-specific endonuclease in hyperthermophilic Archaea. Nucleic Acids Research, 2016, 44, 2977-2986.	14.5	63
29	Nucleotide sequence of the lig gene and primary structure of DNA ligase of Escherichia coli. Molecular Genetics and Genomics, 1986, 204, 1-7.	2.4	62
30	The GINS Complex from Pyrococcus furiosus Stimulates the MCM Helicase Activity. Journal of Biological Chemistry, 2008, 283, 1601-1609.	3.4	61
31	Physical interaction between proliferating cell nuclear antigen and replication factor C fromPyrococcus furiosus. Genes To Cells, 2002, 7, 911-922.	1.2	58
32	The Closed Structure of an Archaeal DNA Ligase from Pyrococcus furiosus. Journal of Molecular Biology, 2006, 360, 956-967.	4.2	58
33	cDNA Cloning of Human Calpastatin: Sequence Homology Among Human, Pig, and Rabbit Calpastatins. Journal of Enzyme Inhibition and Medicinal Chemistry, 1989, 3, 49-56.	0.5	57
34	Two Family B DNA Polymerases from <i>Aeropyrum pernix</i> , an Aerobic Hyperthermophilic Crenarchaeote. Journal of Bacteriology, 1999, 181, 5984-5992.	2.2	55
35	Structural and Functional Analyses of an Archaeal XPF/Rad1/Mus81 Nuclease: Asymmetric DNA Binding and Cleavage Mechanisms. Structure, 2005, 13, 1183-1192.	3.3	53
36	Architecture of the DNA polymerase B-proliferating cell nuclear antigen (PCNA)-DNA ternary complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1845-1849.	7.1	53

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37	The clamp-loading complex for processive DNA replication. Nature Structural and Molecular Biology, 2004, 11, 632-636.	8.2	51
38	A Guanine Nucleotide Exchange Factor for Rab5 Proteins Is Essential for Intracellular Transport of the Proglutelin from the Golgi Apparatus to the Protein Storage Vacuole in Rice Endosperm Â Â Â. Plant Physiology, 2013, 162, 663-674.	4.8	51
39	The archaeal Hjm helicase has recQ-like functions, and may be involved in repair of stalled replication fork. Genes To Cells, 2006, 11, 99-110.	1.2	50
40	The replication machinery of LUCA: common origin of DNA replication and transcription. BMC Biology, 2020, 18, 61.	3.8	50
41	Cloning of the DNA Polymerase Gene of Bacillus caldotenax and Characterization of the Gene Product1. Journal of Biochemistry, 1993, 113, 401-410.	1.7	49
42	Human herpesvirus 6 induces IL-8 gene expression in human hepatoma cell line, Hep G2. , 1996, 49, 34-40.		49
43	Structure of the EndoMS-DNA Complex as Mismatch Restriction Endonuclease. Structure, 2016, 24, 1960-1971.	3.3	48
44	Diversity of bacteria and archaea from two shallow marine hydrothermal vents from Vulcano Island. Extremophiles, 2017, 21, 733-742.	2.3	48
45	Identification of a Novel Helicase Activity Unwinding Branched DNAs from the Hyperthermophilic Archaeon, Pyrococcus furiosus. Journal of Biological Chemistry, 2005, 280, 12351-12358.	3.4	45
46	Activation of the mismatch-specific endonuclease EndoMS/NucS by the replication clamp is required for high fidelity DNA replication. Nucleic Acids Research, 2018, 46, 6206-6217.	14.5	45
47	DNA repair in hyperthermophilic and hyperradioresistant microorganisms. Current Opinion in Microbiology, 2015, 25, 103-112.	5.1	44
48	The euryarchaeotes, a subdomain of Archaea, survive on a single DNA polymerase: Fact or farce?. Genes and Genetic Systems, 1998, 73, 323-336.	0.7	43
49	Escherichia coli DNA polymerase II is homologous to Î±-like DNA polymerases. Molecular Genetics and Genomics, 1991, 226-226, 24-33.	2.4	42
50	Three Proliferating Cell Nuclear Antigen-Like Proteins Found in the Hyperthermophilic Archaeon Aeropyrum pernix: Interactions with the Two DNA Polymerases. Journal of Bacteriology, 2002, 184, 687-694.	2.2	39
51	Structural determinant for switching between the polymerase and exonuclease modes in the PCNA-replicative DNA polymerase complex. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20693-20698.	7.1	39
52	Physiological Responses of the Hyperthermophilic Archaeon â€œ Pyrococcus abyssi â€•to DNA Damage Caused by Ionizing Radiation. Journal of Bacteriology, 2003, 185, 3958-3961.	2.2	38
53	A Non-.ALPHA.-like DNA Polymerase from the Hyperthermophilic Archaeon Pyrococcus furiosus.. Biological and Pharmaceutical Bulletin, 1995, 18, 1647-1652.	1.4	36
54	Multiple Interactions of the Intrinsically Disordered Region between the Helicase and Nuclease Domains of the Archaeal Hef Protein. Journal of Biological Chemistry, 2014, 289, 21627-21639.	3.4	36

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55	Identification of a Novel Binding Motif in Pyrococcus furiosus DNA Ligase for the Functional Interaction with Proliferating Cell Nuclear Antigen. Journal of Biological Chemistry, 2006, 281, 28023-28032.	3.4	35
56	A novel endonuclease that may be responsible for damaged DNA base repair in Pyrococcus furiosus. Nucleic Acids Research, 2015, 43, 2853-2863.	14.5	35
57	A Novel Biosynthetic Pathway of Archaetidyl-myo-inositol via Archaetidyl-myo-inositol Phosphate from CDP-archaeol and d-Glucose 6-Phosphate in Methanoarchaeon Methanothermobacter thermautotrophicus Cells. Journal of Biological Chemistry, 2009, 284, 30766-30774.	3.4	34
58	Mutational Analysis of the Pyrococcus furiosusHolliday Junction Resolvase Hjc Revealed Functionally Important Residues for Dimer Formation, Junction DNA Binding, and Cleavage Activities. Journal of Biological Chemistry, 2000, 275, 40385-40391.	3.4	33
59	DNA Polymerases BI and D from the Hyperthermophilic Archaeon Pyrococcus furiosus Both Bind to Proliferating Cell Nuclear Antigen with Their C-Terminal PIP-Box Motifs. Journal of Bacteriology, 2007, 189, 5652-5657.	2.2	33
60	Atomic structures and functional implications of the archaeal RecQ-like helicase Hjm. BMC Structural Biology, 2009, 9, 2.	2.3	33
61	Rapid progress of DNA replication studies in Archaea, the third domain of life. Science China Life Sciences, 2012, 55, 386-403.	4.9	33
62	Intermolecular ion pairs maintain the toroidal structure of Pyrococcus furiosus PCNA. Protein Science, 2003, 12, 823-831.	7.6	32
63	Biochemical and genetical analyses of the three mcm genes from the hyperthermophilic archaeon, Thermococcus kodakarensis. Genes To Cells, 2011, 16, 1176-1189.	1.2	32
64	Mutant Taq DNA polymerases with improved elongation ability as a useful reagent for genetic engineering. Frontiers in Microbiology, 2014, 5, 461.	3.5	32
65	Biochemical characterization of endonuclease V from the hyperthermophilic archaeon, Pyrococcus furiosus. Journal of Biochemistry, 2014, 155, 325-333.	1.7	32
66	Specific interaction between DNA polymerase II (PolD) and RadB, a Rad51/Dmc1 homolog, in Pyrococcus furiosus. Nucleic Acids Research, 1999, 27, 4695-4702.	14.5	31
67	Genomewide and biochemical analyses of DNA-binding activity of Cdc6/Orc1 and Mcm proteins in Pyrococcus sp.. Nucleic Acids Research, 2007, 35, 3214-3222.	14.5	31
68	Functional interdependence of DNA polymerizing and 3â€²â†’5â€² exonucleolytic activities in Pyrococcus furiosus DNA polymerase I. Protein Engineering, Design and Selection, 2000, 13, 41-47.	2.1	30
69	Domain Analysis of an Archaeal RadA Protein for the Strand Exchange Activity. Journal of Biological Chemistry, 2000, 275, 33791-33797.	3.4	30
70	Architectures of archaeal GINS complexes, essential DNA replication initiation factors. BMC Biology, 2011, 9, 28.	3.8	30
71	Physical and Functional Interactions between Uracil-DNA Glycosylase and Proliferating Cell Nuclear Antigen from the Euryarchaeon Pyrococcus furiosus. Journal of Biological Chemistry, 2008, 283, 24185-24193.	3.4	27
72	Mechanisms of Maintaining Genetic Stability by Homologous Recombination. Chemical Reviews, 2006, 106, 324-339.	47.7	26

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73	Biochemical properties and base excision repair complex formation of apurinic/apyrimidinic endonuclease from Pyrococcus furiosus. Nucleic Acids Research, 2009, 37, 6439-6453.	14.5	26
74	Comparative analyses of the two proliferating cell nuclear antigens from the hyperthermophilic archaeon, <i>Thermococcus kodakarensis</i>. Genes To Cells, 2012, 17, 923-937.	1.2	25
75	Three-Dimensional Electron Microscopy of the Clamp Loader Small Subunit from Pyrococcus furiosus. Journal of Structural Biology, 2001, 134, 35-45.	2.8	24
76	Structure-specific DNA nucleases: structural basis for 3D-scissors. Current Opinion in Structural Biology, 2006, 16, 60-67.	5.7	24
77	DJ-1 family Maillard deglycases prevent acrylamide formation. Biochemical and Biophysical Research Communications, 2016, 478, 1111-1116.	2.1	24
78	Functional interactions of an archaeal sliding clamp with mammalian clamp loader and DNA polymerase Î´. Genes To Cells, 2001, 6, 699-706.	1.2	23
79	Recognition by restriction endonuclease EcoRI of deoxyoctanucleotides containing modified sugar moieties. FEBS Journal, 1984, 139, 447-450.	0.2	22
80	[21] DNA polymerases from euryarchaeota. Methods in Enzymology, 2001, 334, 249-260.	1.0	22
81	Atomic structure of an archaeal GAN suggests its dual roles as an exonuclease in DNA repair and a CMG component in DNA replication. Nucleic Acids Research, 2016, 44, 9505-9517.	14.5	22
82	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.	14.5	22
83	A Novel Type of Polyhedral Viruses Infecting Hyperthermophilic Archaea. Journal of Virology, 2017, 91, .	3.4	21
84	Specific interactions of three proliferating cell nuclear antigens with replication-related proteins in Aeropyrum pernix. Molecular Microbiology, 2007, 64, 308-318.	2.5	20
85	Localized melting of duplex DNA by Cdc6/Orc1 at the DNA replication origin in the hyperthermophilic archaeon Pyrococcus furiosus. Extremophiles, 2010, 14, 21-31.	2.3	19
86	Overproduction of Thermus aquaticus DNA Polymerase and Its Structural Analysis by Ion-Spray Mass Spectrometry. Journal of Biochemistry, 1994, 116, 1019-1024.	1.7	18
87	Dissection of the Regional Roles of the Archaeal Holliday Junction Resolvase Hjc by Structural and Mutational Analyses. Journal of Biological Chemistry, 2001, 276, 35735-35740.	3.4	18
88	New archaeal viruses discovered by metagenomic analysis of viral communities in enrichment cultures. Environmental Microbiology, 2019, 21, 2002-2014.	3.8	18
89	The GINS complex from the thermophilic archaeon, Thermoplasma acidophilum may function as a homotetramer in DNA replication. Extremophiles, 2011, 15, 529-539.	2.3	17
90	EndoQ and EndoV work individually for damaged DNA base repair in Pyrococcus furiosus. Biochimie, 2015, 118, 264-269.	2.6	17

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91	Cdc6/Orc1 from <i>Pyrococcus furiosus</i> may act as the origin recognition protein and Mcm helicase recruiter. Genes To Cells, 2010, 15, 537-552.	1.2	16
92	Guanine nucleotide exchange factor 2 for Rab5 proteins coordinated with GLUP6/GEF regulates the intracellular transport of the proglutelin from the Golgi apparatus to the protein storage vacuole in rice endosperm. Journal of Experimental Botany, 2015, 66, 6137-6147.	4.8	16
93	Rapid and practical detection of Î²-globin mutation causing Î²-thalassemia by fluorescence-based PCR-single-stranded conformation polymorphism analysis. Molecular and Cellular Probes, 1994, 8, 385-393.	2.1	15
94	Comprehensive Search for DNA Polymerase in the Hyperthermophilic Archaeon,Pyrococcus furiosus. Nucleosides, Nucleotides and Nucleic Acids, 2006, 25, 681-691.	1.1	15
95	Studies on the base excision repair (BER) complex in Pyrococcus furiosus. Biochemical Society Transactions, 2009, 37, 79-82.	3.4	15
96	The OsGEN-L protein from Oryza sativa possesses Holliday junction resolvase activity as well as 5'-flap endonuclease activity. Journal of Biochemistry, 2012, 151, 317-327.	1.7	15
97	Activation of the MCM helicase from the thermophilic archaeon, Thermoplasma acidophilum by interactions with GINS and Cdc6-2. Extremophiles, 2014, 18, 915-924.	2.3	15
98	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
99	Expression and Molecular Characterization of Spherical Particles Derived from the Genome of the Hyperthermophilic Euryarchaeote Pyrococcus furiosus. Journal of Biochemistry, 2005, 138, 193-199.	1.7	14
100	Novel inhibition of archaeal family-D DNA polymerase by uracil. Nucleic Acids Research, 2013, 41, 4207-4218.	14.5	14
101	Structureâ€Based Mutational Study of an Archaeal DNA Ligase towards Improvement of Ligation Activity. ChemBioChem, 2012, 13, 2575-2582.	2.6	13
102	Control of enzyme reaction by a designed metal-ion-dependent Î±-helical coiled-coil protein. Journal of Biological Inorganic Chemistry, 2012, 17, 791-799.	2.6	13
103	Functional role of the <scp>C</scp>â€terminal tail of the archaeal ribosomal stalk in recruitment of two elongation factors to the sarcin/ricin loop of 23S r<scp>RNA</scp>. Genes To Cells, 2015, 20, 613-624.	1.2	13
104	An optimized N^{pro}-based method for the expression and purification of intrinsically disordered proteins for an NMR study. Intrinsically Disordered Proteins, 2015, 3, e1011004.	1.9	13
105	PCNA is involved in the EndoQ-mediated DNA repair process in Thermococcales. Scientific Reports, 2016, 6, 25532.	3.3	12
106	Molecular Analyses of an Unusual Translesion DNA Polymerase from Methanosarcina acetivorans C2A. Journal of Molecular Biology, 2010, 397, 13-30.	4.2	11
107	A functional endonuclease Q exists in the bacterial domain: identification and characterization of endonuclease Q from <i>Bacillus pumilus</i>. Bioscience, Biotechnology and Biochemistry, 2017, 81, 931-937.	1.3	11
108	The RecJ2 protein in the thermophilic archaeon Thermoplasma acidophilum is a 3â€²-5â€² exonuclease that associates with a DNA replication complex. Journal of Biological Chemistry, 2017, 292, 7921-7931.	3.4	11

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109	A Novel Single-Strand Specific 3â€²â€“5â€² Exonuclease Found in the Hyperthermophilic Archaeon, Pyrococcus furiosus. PLoS ONE, 2013, 8, e58497.	2.5	11
110	Nucleotide sequence of thearaDgene ofEscherichia coliK12 encoding the L-ribulose 5-phosphate 4-epimerase. Nucleic Acids Research, 1990, 18, 6722-6722.	14.5	10
111	Switch of the interactions between the ribosomal stalk and EF1A in the GTP- and GDP-bound conformations. Scientific Reports, 2019, 9, 14761.	3.3	10
112	Six dinucleotide repeat polymorphisms on chromosome 7. Japanese Journal of Human Genetics, 1994, 39, 447-449.	0.8	9
113	Identification and characterization of Thermus thermophilus HB8 RuvA protein, the subunit of the RuvAB protein complex that promotes branch migration of Holliday junctions.. Genes and Genetic Systems, 2000, 75, 233-243.	0.7	9
114	Overexpression, purification and crystallization of an archaeal DNA ligase fromPyrococcus furiosus. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 1100-1102.	0.7	9
115	A single amino acid substitution in the DNA-binding domain of Aeropyrum pernix DNA ligase impairs its interaction with proliferating cell nuclear antigen. Extremophiles, 2007, 11, 675-684.	2.3	9
116	Molecular Analyses of a Three-Subunit Euryarchaeal Clamp Loader Complex from Methanosarcina acetivorans. Journal of Bacteriology, 2009, 191, 6539-6549.	2.2	9
117	The archaeal DNA replication machinery: past, present and future. Genes and Genetic Systems, 2013, 88, 315-319.	0.7	9
118	From Structure-Function Analyses to Protein Engineering for Practical Applications of DNA Ligase. Archaea, 2015, 2015, 1-20.	2.3	9
119	Crystal structure of the novel lesion-specific endonuclease PfuEndoQ from Pyrococcus furiosus. Nucleic Acids Research, 2018, 46, 4807-4818.	14.5	9
120	Direct visualization of DNA baton pass between replication factors bound to PCNA. Scientific Reports, 2018, 8, 16209.	3.3	9
121	Elucidating functions of DP1 and DP2 subunits from the Thermococcus kodakarensis family D DNA polymerase. Extremophiles, 2019, 23, 161-172.	2.3	9
122	Ephedrae Herba and Cinnamomi Cortex interactions with G glycoprotein inhibit respiratory syncytial virus infectivity. Communications Biology, 2022, 5, 94.	4.4	9
123	Dinucleotide repeat polymorphism at the D8S1053. Japanese Journal of Human Genetics, 1994, 39, 445-446.	0.8	8
124	A useful strategy to construct DNA polymerases with different properties by using genetic resources from environmental DNA. Genes and Genetic Systems, 2009, 84, 3-13.	0.7	8
125	Possible function of the second RecJ-like protein in stalled replication fork repair by interacting with Hef. Scientific Reports, 2017, 7, 16949.	3.3	8
126	Two conformations of DNA polymerase D-PCNA-DNA, an archaeal replisome complex, revealed by cryo-electron microscopy. BMC Biology, 2020, 18, 152.	3.8	8

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127	Role of RadA and DNA Polymerases in Recombination-Associated DNA Synthesis in Hyperthermophilic Archaea. Biomolecules, 2020, 10, 1045.	4.0	8
128	Identification of the critical region in Replication factor C from Pyrococcus furiosus for the stable complex formation with Proliferating cell nuclear antigen and DNA. Genes and Genetic Systems, 2005, 80, 83-93.	0.7	7
129	Mutations of Asp540 and the domainâ€connecting residues synergistically enhance <i>Pyrococcus furiosus</i> DNA ligase activity. FEBS Letters, 2014, 588, 230-235.	2.8	7
130	Structural basis for substrate recognition and processive cleavage mechanisms of the trimeric exonuclease PhoExo I. Nucleic Acids Research, 2015, 43, 7122-7136.	14.5	7
131	ï»¿Comparing PCR-generated artifacts of different polymerases for improved accuracy of DNA metabarcoding. Metabarcoding and Metagenomics, 0, 6, .	0.0	7
132	Fluorescent labeling of a DNA sequencing primer. DNA Sequence, 1993, 4, 135-141.	0.7	6
133	Reverse-Chaperoning Activity of an AAA+ Protein. Biophysical Journal, 2011, 100, 1344-1352.	0.5	6
134	The mesophilic archaeon Methanosarcina acetivorans counteracts uracil in DNA with multiple enzymes: EndoQ, ExoIII, and UDG. Scientific Reports, 2018, 8, 15791.	3.3	6
135	Development of a time-series shotgun metagenomics database for monitoring microbial communities at the Pacific coast of Japan. Scientific Reports, 2021, 11, 12222.	3.3	6
136	The amino acid sequence required for 5' â†' 3' exonuclease activity of Bacillus caldotenax DNA polymerase. Protein Engineering, Design and Selection, 1995, 8, 1171-1175.	2.1	5
137	DNA Polymerases and DNA Ligases. , 2013, , 429-457.		5
138	A longer finger-subdomain of family A DNA polymerases found by metagenomic analysis strengthens DNA binding and primer extension abilities. Gene, 2016, 576, 690-695.	2.2	5
139	DNA polymerase D temporarily connects primase to the CMG-like helicase before interacting with proliferating cell nuclear antigen. Nucleic Acids Research, 2021, 49, 4599-4612.	14.5	5
140	New insights into the diversity and evolution of the archaeal mobilome from three complete genomes of <i>Saccharolobus shibatae</i>. Environmental Microbiology, 2021, 23, 4612-4630.	3.8	5
141	Metagenomic analysis provides functional insights into seasonal change of a non-cyanobacterial prokaryotic community in temperate coastal waters. PLoS ONE, 2021, 16, e0257862.	2.5	5
142	Dinucleotide repeat polymorphism at the D8S1055. Japanese Journal of Human Genetics, 1994, 39, 441-443.	0.8	4
143	Sse8647I, a new type II restriction endonuclease from aStreptomycesspecies cutting at 5'-AG/GWCCT-3'. Nucleic Acids Research, 1995, 23, 742-744.	14.5	4
144	Adenylosuccinate Synthetase Genes: Molecular Cloning and Phylogenetic Analysis of a Highly Conserved Archaeal Gene. Systematic and Applied Microbiology, 1998, 21, 478-486.	2.8	4

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145	Mutational analysis of Pyrococcus furiosus replication factor C based on the three-dimensional structure. Extremophiles, 2003, 7, 169-175.	2.3	4
146	Stoichiometric complex formation by proliferating cell nuclear antigen (PCNA) and its interacting protein: purification and crystallization of the DNA polymerase and PCNA monomer mutant complex fromPyrococcus furiosus. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 253-256.	0.7	4
147	Disordered interdomain region of Gins is important for functional tetramer formation to stimulate MCM helicase in <i>Thermoplasma acidophilum</i>. Bioscience, Biotechnology and Biochemistry, 2015, 79, 432-438.	1.3	4
148	Replication protein A complex in Thermococcus kodakarensis interacts with DNA polymerases and helps their effective strand synthesis. Bioscience, Biotechnology and Biochemistry, 2019, 83, 695-704.	1.3	4
149	A novel streptomyces restriction endonuclease, Sse1825I, cleaving at 5â€²-GG/GWCCC-3â€². Gene, 1995, 157, 323-324.	2.2	3
150	A tRNAGlugene from the hyperthermophilic archaeonPyrococcus furiosuscontains the 3Ã¢Â€Â²-terminal CCA sequence of the mature tRNA. FEMS Microbiology Letters, 1998, 160, 199-204.	1.8	3
151	Crystallization and Preliminary Crystallographic Study of DNA Polymerase from Pyrococcus furiosus. Protein and Peptide Letters, 2007, 14, 403-405.	0.9	3
152	DNA Replication in Archaea, the Third Domain of Life. , 2013, , .		3
153	Expression, high-pressure refolding, purification, crystallization and preliminary X-ray analysis of a novel single-strand-specific 3â€²â€“5â€² exonuclease PhoExo I fromPyrococcus horikoshiiOT3. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1076-1079.	0.8	3
154	Mutation of the gene encoding the ribonuclease P RNA in the hyperthermophilic archaeon Thermococcus kodakarensis causes decreased growth rate and impaired processing of tRNA precursors. Biochemical and Biophysical Research Communications, 2015, 468, 660-665.	2.1	3
155	Archaeal DNA Polymerase-B as a DNA Template Guardian: Links between Polymerases and Base/Alternative Excision Repair Enzymes in Handling the Deaminated Bases Uracil and Hypoxanthine. Archaea, 2016, 2016, 1-8.	2.3	3
156	Studies on DNA-related enzymes to elucidate molecular mechanisms underlying genetic information processing and their application in genetic engineering. Bioscience, Biotechnology and Biochemistry, 2020, 84, 1749-1766.	1.3	3
157	Enzymatic Switching Between Archaeal DNA Polymerases Facilitates Abasic Site Bypass. Frontiers in Microbiology, 2021, 12, 802670.	3.5	3
158	A highly polymorphic dinucleotide repeat at the D8S1222 locus. Japanese Journal of Human Genetics, 1995, 40, 287-288.	0.8	2
159	Two dinucleotide repeat polymorphisms at the D8S1444 and D8S1445 loci. Japanese Journal of Human Genetics, 1996, 41, 261-263.	0.8	2
160	A High-Density STS Map Based on a Single Contig of YAC and P1 Clones in the Chromosome 8p12â€“p21 Region. Genomics, 1997, 41, 49-55.	2.9	2
161	Exonuclease processivity of archaeal replicative DNA polymerase in association with PCNA is expedited by mismatches in DNA. Scientific Reports, 2017, 7, 44582.	3.3	2
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