

Yoshizumi Ishino

List of Publications by Year in descending order

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172
papers

5,974
citations

66315

42
h-index

91828

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 β -lactamase fold. FEBS Letters, 2001, 503, 1-6.	1.3	287
2	History of CRISPR-Cas from Encounter with a Mysterious Repeated Sequence to Genome Editing Technology. Journal of Bacteriology, 2018, 200, .	1.0	273
3	Segmental Isotope Labeling for Protein NMR Using Peptide Splicing. Journal of the American Chemical Society, 1998, 120, 5591-5592.	6.6	232
4	Archaeal DNA Replication: Identifying the Pieces to Solve a Puzzle. Genetics, 1999, 152, 1249-1267.	1.2	179
5	Crystal structure of an archaeal DNA sliding clamp: Proliferating cell nuclear antigen from <i>Pyrococcus furiosus</i> . Protein Science, 2001, 10, 17-23.	3.1	143
6	A novel DNA polymerase in the hyperthermophilic archaeon, <i>Pyrococcus furiosus</i> : gene cloning, expression, and characterization. Genes To Cells, 1997, 2, 499-512.	0.5	128
7	Organization and nucleotide sequence of the DNA polymerase gene from the archaeon <i>Pyrococcus furiosus</i> . Nucleic Acids Research, 1993, 21, 259-265.	6.5	117
8	Role of the <i>Escherichia coli</i> RecQ DNA helicase in SOS signaling and genome stabilization at stalled replication forks. Genes and Development, 2004, 18, 1886-1897.	2.7	116
9	A Novel DNA Polymerase Family Found in <i>Archaea</i> . Journal of Bacteriology, 1998, 180, 2232-2236.	1.0	111
10	Both RadA and RadB Are Involved in Homologous Recombination in <i>Pyrococcus furiosus</i> . Journal of Biological Chemistry, 2000, 275, 33782-33790.	1.6	111
11	Crystal Structure of an Archaeal Intein-encoded Homing Endonuclease PI-Pful. Journal of Molecular Biology, 2000, 300, 889-901.	2.0	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.	3.3	109
13	X-Ray and Biochemical Anatomy of an Archaeal XPF/Rad1/Mus81 Family Nuclease. Structure, 2003, 11, 445-457.	1.6	101
14	Crystal Structure of the Archaeal Holliday Junction Resolvase Hjc and Implications for DNA Recognition. Structure, 2001, 9, 197-204.	1.6	96
15	DNA polymerases as useful reagents for biotechnology – the history of developmental research in the field. Frontiers in Microbiology, 2014, 5, 465.	1.5	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.	1.0	94
17	Novel endonuclease in <i>Archaea</i> cleaving DNA with various branched structure.. Genes and Genetic Systems, 2002, 77, 227-241.	0.2	88
18	Genetic analysis of DNA repair in the hyperthermophilic archaeon, <i>Thermococcus kodakaraensis</i> . Genes and Genetic Systems, 2010, 85, 243-257.	0.2	82

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19	Splicing of the Mycobacteriophage Bethlehem DnaB Intein. <i>Journal of Biological Chemistry</i> , 2010, 285, 2515-2526.	1.6	82
20	Replication Protein A in <i>Pyrococcus furiosus</i> Is Involved in Homologous DNA Recombination. <i>Journal of Biological Chemistry</i> , 2001, 276, 25654-25660.	1.6	81
21	Crystal Structure and Functional Implications of <i>Pyrococcus furiosus</i> Hef Helicase Domain Involved in Branched DNA Processing. <i>Structure</i> , 2005, 13, 143-153.	1.6	81
22	Cooperation of the N-terminal Helicase and C-terminal Endonuclease Activities of Archaeal Hef Protein in Processing Stalled Replication Forks. <i>Journal of Biological Chemistry</i> , 2004, 279, 53175-53185.	1.6	74
23	Archaeal primase. <i>Current Biology</i> , 2001, 11, 452-456.	1.8	71
24	Mechanism of replication machinery assembly as revealed by the DNA ligase-PCNA-DNA complex architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4647-4652.	3.3	71
25	Atomic Structure of the Clamp Loader Small Subunit from <i>Pyrococcus furiosus</i> . <i>Molecular Cell</i> , 2001, 8, 455-463.	4.5	69
26	The Archaeal DNA Primase. <i>Journal of Biological Chemistry</i> , 2001, 276, 45484-45490.	1.6	66
27	Biochemical Analysis of Replication Factor C from the Hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> . <i>Journal of Bacteriology</i> , 2001, 183, 2614-2623.	1.0	64
28	Identification of a mismatch-specific endonuclease in hyperthermophilic Archaea. <i>Nucleic Acids Research</i> , 2016, 44, 2977-2986.	6.5	63
29	Nucleotide sequence of the lig gene and primary structure of DNA ligase of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1986, 204, 1-7.	2.4	62
30	The GINS Complex from <i>Pyrococcus furiosus</i> Stimulates the MCM Helicase Activity. <i>Journal of Biological Chemistry</i> , 2008, 283, 1601-1609.	1.6	61
31	Physical interaction between proliferating cell nuclear antigen and replication factor C from <i>Pyrococcus furiosus</i> . <i>Genes To Cells</i> , 2002, 7, 911-922.	0.5	58
32	The Closed Structure of an Archaeal DNA Ligase from <i>Pyrococcus furiosus</i> . <i>Journal of Molecular Biology</i> , 2006, 360, 956-967.	2.0	58
33	cDNA Cloning of Human Calpastatin: Sequence Homology Among Human, Pig, and Rabbit Calpastatins. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 1989, 3, 49-56.	0.5	57
34	Two Family B DNA Polymerases from <i>Aeropyrum pernix</i> , an Aerobic Hyperthermophilic Crenarchaeote. <i>Journal of Bacteriology</i> , 1999, 181, 5984-5992.	1.0	55
35	Structural and Functional Analyses of an Archaeal XPF/Rad1/Mus81 Nuclease: Asymmetric DNA Binding and Cleavage Mechanisms. <i>Structure</i> , 2005, 13, 1183-1192.	1.6	53
36	Architecture of the DNA polymerase B-proliferating cell nuclear antigen (PCNA)-DNA ternary complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1845-1849.	3.3	53

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37	The clamp-loading complex for processive DNA replication. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 632-636.	3.6	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. <i>Plant Physiology</i> , 2013, 162, 663-674.	2.3	51
39	The archaeal Hjm helicase has recQ-like functions, and may be involved in repair of stalled replication fork. <i>Genes To Cells</i> , 2006, 11, 99-110.	0.5	50
40	The replication machinery of LUCA: common origin of DNA replication and transcription. <i>BMC Biology</i> , 2020, 18, 61.	1.7	50
41	Cloning of the DNA Polymerase Gene of <i>Bacillus caldotenax</i> and Characterization of the Gene Product. <i>Journal of Biochemistry</i> , 1993, 113, 401-410.	0.9	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. <i>Structure</i> , 2016, 24, 1960-1971.	1.6	48
44	Diversity of bacteria and archaea from two shallow marine hydrothermal vents from Vulcano Island. <i>Extremophiles</i> , 2017, 21, 733-742.	0.9	48
45	Identification of a Novel Helicase Activity Unwinding Branched DNAs from the Hyperthermophilic Archaeon, <i>Pyrococcus furiosus</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 12351-12358.	1.6	45
46	Activation of the mismatch-specific endonuclease EndoMS/NucS by the replication clamp is required for high fidelity DNA replication. <i>Nucleic Acids Research</i> , 2018, 46, 6206-6217.	6.5	45
47	DNA repair in hyperthermophilic and hyperradioresistant microorganisms. <i>Current Opinion in Microbiology</i> , 2015, 25, 103-112.	2.3	44
48	The euryarchaeotes, a subdomain of Archaea, survive on a single DNA polymerase: Fact or farce?. <i>Genes and Genetic Systems</i> , 1998, 73, 323-336.	0.2	43
49	<i>Escherichia coli</i> DNA polymerase II is homologous to ϕ -like DNA polymerases. <i>Molecular Genetics and Genomics</i> , 1991, 226-226, 24-33.	2.4	42
50	Three Proliferating Cell Nuclear Antigen-Like Proteins Found in the Hyperthermophilic Archaeon <i>Aeropyrum pernix</i> : Interactions with the Two DNA Polymerases. <i>Journal of Bacteriology</i> , 2002, 184, 687-694.	1.0	39
51	Structural determinant for switching between the polymerase and exonuclease modes in the PCNA-replicative DNA polymerase complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20693-20698.	3.3	39
52	Physiological Responses of the Hyperthermophilic Archaeon <i>Pyrococcus abyssi</i> to DNA Damage Caused by Ionizing Radiation. <i>Journal of Bacteriology</i> , 2003, 185, 3958-3961.	1.0	38
53	A Non- α -like DNA Polymerase from the Hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> . <i>Biological and Pharmaceutical Bulletin</i> , 1995, 18, 1647-1652.	0.6	36
54	Multiple Interactions of the Intrinsically Disordered Region between the Helicase and Nuclease Domains of the Archaeal Hef Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 21627-21639.	1.6	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. <i>Journal of Biological Chemistry</i> , 2006, 281, 28023-28032.	1.6	35
56	A novel endonuclease that may be responsible for damaged DNA base repair in Pyrococcus furiosus. <i>Nucleic Acids Research</i> , 2015, 43, 2853-2863.	6.5	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 thermoautotrophicus Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 30766-30774.	1.6	34
58	Mutational Analysis of the Pyrococcus furiosus Holliday Junction Resolvase Hjc Revealed Functionally Important Residues for Dimer Formation, Junction DNA Binding, and Cleavage Activities. <i>Journal of Biological Chemistry</i> , 2000, 275, 40385-40391.	1.6	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. <i>Journal of Bacteriology</i> , 2007, 189, 5652-5657.	1.0	33
60	Atomic structures and functional implications of the archaeal RecQ-like helicase Hjm. <i>BMC Structural Biology</i> , 2009, 9, 2.	2.3	33
61	Rapid progress of DNA replication studies in Archaea, the third domain of life. <i>Science China Life Sciences</i> , 2012, 55, 386-403.	2.3	33
62	Intermolecular ion pairs maintain the toroidal structure of Pyrococcus furiosus PCNA. <i>Protein Science</i> , 2003, 12, 823-831.	3.1	32
63	Biochemical and genetical analyses of the three mcm genes from the hyperthermophilic archaeon, Thermococcus kodakarensis. <i>Genes To Cells</i> , 2011, 16, 1176-1189.	0.5	32
64	Mutant Taq DNA polymerases with improved elongation ability as a useful reagent for genetic engineering. <i>Frontiers in Microbiology</i> , 2014, 5, 461.	1.5	32
65	Biochemical characterization of endonuclease V from the hyperthermophilic archaeon, Pyrococcus furiosus. <i>Journal of Biochemistry</i> , 2014, 155, 325-333.	0.9	32
66	Specific interaction between DNA polymerase II (PolD) and RadB, a Rad51/Dmc1 homolog, in Pyrococcus furiosus. <i>Nucleic Acids Research</i> , 1999, 27, 4695-4702.	6.5	31
67	Genomewide and biochemical analyses of DNA-binding activity of Cdc6/Orc1 and Mcm proteins in Pyrococcus sp.. <i>Nucleic Acids Research</i> , 2007, 35, 3214-3222.	6.5	31
68	Functional interdependence of DNA polymerizing and 3'→5' exonucleolytic activities in Pyrococcus furiosus DNA polymerase I. <i>Protein Engineering, Design and Selection</i> , 2000, 13, 41-47.	1.0	30
69	Domain Analysis of an Archaeal RadA Protein for the Strand Exchange Activity. <i>Journal of Biological Chemistry</i> , 2000, 275, 33791-33797.	1.6	30
70	Architectures of archaeal GINS complexes, essential DNA replication initiation factors. <i>BMC Biology</i> , 2011, 9, 28.	1.7	30
71	Physical and Functional Interactions between Uracil-DNA Glycosylase and Proliferating Cell Nuclear Antigen from the Euryarchaeon Pyrococcus furiosus. <i>Journal of Biological Chemistry</i> , 2008, 283, 24185-24193.	1.6	27
72	Mechanisms of Maintaining Genetic Stability by Homologous Recombination. <i>Chemical Reviews</i> , 2006, 106, 324-339.	23.0	26

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73	Biochemical properties and base excision repair complex formation of apurinic/aprimidinic endonuclease from <i>Pyrococcus furiosus</i> . <i>Nucleic Acids Research</i> , 2009, 37, 6439-6453.	6.5	26
74	Comparative analyses of the two proliferating cell nuclear antigens from the hyperthermophilic archaeon, <i>Thermococcus kodakarensis</i> . <i>Genes To Cells</i> , 2012, 17, 923-937.	0.5	25
75	Three-Dimensional Electron Microscopy of the Clamp Loader Small Subunit from <i>Pyrococcus furiosus</i> . <i>Journal of Structural Biology</i> , 2001, 134, 35-45.	1.3	24
76	Structure-specific DNA nucleases: structural basis for 3D-scissors. <i>Current Opinion in Structural Biology</i> , 2006, 16, 60-67.	2.6	24
77	DJ-1 family Maillard deglycases prevent acrylamide formation. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 1111-1116.	1.0	24
78	Functional interactions of an archaeal sliding clamp with mammalian clamp loader and DNA polymerase β . <i>Genes To Cells</i> , 2001, 6, 699-706.	0.5	23
79	Recognition by restriction endonuclease EcoRI of deoxyoctanucleotides containing modified sugar moieties. <i>FEBS Journal</i> , 1984, 139, 447-450.	0.2	22
80	[21] DNA polymerases from euryarchaeota. <i>Methods in Enzymology</i> , 2001, 334, 249-260.	0.4	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. <i>Nucleic Acids Research</i> , 2016, 44, 9505-9517.	6.5	22
82	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.	6.5	22
83	A Novel Type of Polyhedral Viruses Infecting Hyperthermophilic Archaea. <i>Journal of Virology</i> , 2017, 91, .	1.5	21
84	Specific interactions of three proliferating cell nuclear antigens with replication-related proteins in <i>Aeropyrum pernix</i> . <i>Molecular Microbiology</i> , 2007, 64, 308-318.	1.2	20
85	Localized melting of duplex DNA by Cdc6/Orc1 at the DNA replication origin in the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . <i>Extremophiles</i> , 2010, 14, 21-31.	0.9	19
86	Overproduction of <i>Thermus aquaticus</i> DNA Polymerase and Its Structural Analysis by Ion-Spray Mass Spectrometry. <i>Journal of Biochemistry</i> , 1994, 116, 1019-1024.	0.9	18
87	Dissection of the Regional Roles of the Archaeal Holliday Junction Resolvase Hjc by Structural and Mutational Analyses. <i>Journal of Biological Chemistry</i> , 2001, 276, 35735-35740.	1.6	18
88	New archaeal viruses discovered by metagenomic analysis of viral communities in enrichment cultures. <i>Environmental Microbiology</i> , 2019, 21, 2002-2014.	1.8	18
89	The GINS complex from the thermophilic archaeon, <i>Thermoplasma acidophilum</i> may function as a homotetramer in DNA replication. <i>Extremophiles</i> , 2011, 15, 529-539.	0.9	17
90	EndoQ and EndoV work individually for damaged DNA base repair in <i>Pyrococcus furiosus</i> . <i>Biochimie</i> , 2015, 118, 264-269.	1.3	17

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91	Cdc6/Orc1 from <i>Pyrococcus furiosus</i> may act as the origin recognition protein and Mcm helicase recruiter. <i>Genes To Cells</i> , 2010, 15, 537-552.	0.5	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. <i>Journal of Experimental Botany</i> , 2015, 66, 6137-6147.	2.4	16
93	Rapid and practical detection of β -globin mutation causing β -thalassemia by fluorescence-based PCR-single-stranded conformation polymorphism analysis. <i>Molecular and Cellular Probes</i> , 1994, 8, 385-393.	0.9	15
94	Comprehensive Search for DNA Polymerase in the Hyperthermophilic Archaeon, <i>Pyrococcus furiosus</i> . <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2006, 25, 681-691.	0.4	15
95	Studies on the base excision repair (BER) complex in <i>Pyrococcus furiosus</i> . <i>Biochemical Society Transactions</i> , 2009, 37, 79-82.	1.6	15
96	The OsGEN-L protein from <i>Oryza sativa</i> possesses Holliday junction resolvase activity as well as 5'-flap endonuclease activity. <i>Journal of Biochemistry</i> , 2012, 151, 317-327.	0.9	15
97	Activation of the MCM helicase from the thermophilic archaeon, <i>Thermoplasma acidophilum</i> by interactions with GINS and Cdc6-2. <i>Extremophiles</i> , 2014, 18, 915-924.	0.9	15
98	Pol B, a Family B DNA Polymerase, in <i>Thermococcus kodakarensis</i> is Important for DNA Repair, but not DNA Replication. <i>Microbes and Environments</i> , 2019, 34, 316-326.	0.7	15
99	Expression and Molecular Characterization of Spherical Particles Derived from the Genome of the Hyperthermophilic Euryarchaeote <i>Pyrococcus furiosus</i> . <i>Journal of Biochemistry</i> , 2005, 138, 193-199.	0.9	14
100	Novel inhibition of archaeal family-D DNA polymerase by uracil. <i>Nucleic Acids Research</i> , 2013, 41, 4207-4218.	6.5	14
101	Structure-Based Mutational Study of an Archaeal DNA Ligase towards Improvement of Ligation Activity. <i>ChemBioChem</i> , 2012, 13, 2575-2582.	1.3	13
102	Control of enzyme reaction by a designed metal-ion-dependent α -helical coiled-coil protein. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 791-799.	1.1	13
103	Functional role of the C-terminal tail of the archaeal ribosomal stalk in recruitment of two elongation factors to the sarcin/ricin loop of 23S rRNA. <i>Genes To Cells</i> , 2015, 20, 613-624.	0.5	13
104	An optimized N ^{pro} -based method for the expression and purification of intrinsically disordered proteins for an NMR study. <i>Intrinsically Disordered Proteins</i> , 2015, 3, e1011004.	1.9	13
105	PCNA is involved in the EndoQ-mediated DNA repair process in Thermococcales. <i>Scientific Reports</i> , 2016, 6, 25532.	1.6	12
106	Molecular Analyses of an Unusual Translesion DNA Polymerase from <i>Methanosarcina acetivorans</i> C2A. <i>Journal of Molecular Biology</i> , 2010, 397, 13-30.	2.0	11
107	A functional endonuclease Q exists in the bacterial domain: identification and characterization of endonuclease Q from <i>Bacillus pumilus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 931-937.	0.6	11
108	The RecJ2 protein in the thermophilic archaeon <i>Thermoplasma acidophilum</i> is a $3'$ - $5'$ exonuclease that associates with a DNA replication complex. <i>Journal of Biological Chemistry</i> , 2017, 292, 7921-7931.	1.6	11

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109	A Novel Single-Strand Specific 3'→5' Exonuclease Found in the Hyperthermophilic Archaeon, <i>Pyrococcus furiosus</i> . <i>PLoS ONE</i> , 2013, 8, e58497.	1.1	11
110	Nucleotide sequence of the <i>araD</i> gene of <i>Escherichia coli</i> K12 encoding the L-ribulose 5-phosphate 4-epimerase. <i>Nucleic Acids Research</i> , 1990, 18, 6722-6722.	6.5	10
111	Switch of the interactions between the ribosomal stalk and EF1A in the GTP- and GDP-bound conformations. <i>Scientific Reports</i> , 2019, 9, 14761.	1.6	10
112	Six dinucleotide repeat polymorphisms on chromosome 7. <i>Japanese Journal of Human Genetics</i> , 1994, 39, 447-449.	0.8	9
113	Identification and characterization of <i>Thermus thermophilus</i> HB8 RuvA protein, the subunit of the RuvAB protein complex that promotes branch migration of Holliday junctions. <i>Genes and Genetic Systems</i> , 2000, 75, 233-243.	0.2	9
114	Overexpression, purification and crystallization of an archaeal DNA ligase from <i>Pyrococcus furiosus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 1100-1102.	0.7	9
115	A single amino acid substitution in the DNA-binding domain of <i>Aeropyrum pernix</i> DNA ligase impairs its interaction with proliferating cell nuclear antigen. <i>Extremophiles</i> , 2007, 11, 675-684.	0.9	9
116	Molecular Analyses of a Three-Subunit Euryarchaeal Clamp Loader Complex from <i>Methanosarcina acetivorans</i> . <i>Journal of Bacteriology</i> , 2009, 191, 6539-6549.	1.0	9
117	The archaeal DNA replication machinery: past, present and future. <i>Genes and Genetic Systems</i> , 2013, 88, 315-319.	0.2	9
118	From Structure-Function Analyses to Protein Engineering for Practical Applications of DNA Ligase. <i>Archaea</i> , 2015, 2015, 1-20.	2.3	9
119	Crystal structure of the novel lesion-specific endonuclease PfuEndoQ from <i>Pyrococcus furiosus</i> . <i>Nucleic Acids Research</i> , 2018, 46, 4807-4818.	6.5	9
120	Direct visualization of DNA baton pass between replication factors bound to PCNA. <i>Scientific Reports</i> , 2018, 8, 16209.	1.6	9
121	Elucidating functions of DP1 and DP2 subunits from the <i>Thermococcus kodakarensis</i> family D DNA polymerase. <i>Extremophiles</i> , 2019, 23, 161-172.	0.9	9
122	Ephedrae Herba and Cinnamomi Cortex interactions with G glycoprotein inhibit respiratory syncytial virus infectivity. <i>Communications Biology</i> , 2022, 5, 94.	2.0	9
123	Dinucleotide repeat polymorphism at the D8S1053. <i>Japanese Journal of Human Genetics</i> , 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. <i>Genes and Genetic Systems</i> , 2009, 84, 3-13.	0.2	8
125	Possible function of the second RecJ-like protein in stalled replication fork repair by interacting with Hef. <i>Scientific Reports</i> , 2017, 7, 16949.	1.6	8
126	Two conformations of DNA polymerase D-PCNA-DNA, an archaeal replisome complex, revealed by cryo-electron microscopy. <i>BMC Biology</i> , 2020, 18, 152.	1.7	8

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127	Role of RadA and DNA Polymerases in Recombination-Associated DNA Synthesis in Hyperthermophilic Archaea. <i>Biomolecules</i> , 2020, 10, 1045.	1.8	8
128	Identification of the critical region in Replication factor C from <i>Pyrococcus furiosus</i> for the stable complex formation with Proliferating cell nuclear antigen and DNA. <i>Genes and Genetic Systems</i> , 2005, 80, 83-93.	0.2	7
129	Mutations of Asp540 and the domain-connecting residues synergistically enhance <i>Pyrococcus furiosus</i> DNA ligase activity. <i>FEBS Letters</i> , 2014, 588, 230-235.	1.3	7
130	Structural basis for substrate recognition and processive cleavage mechanisms of the trimeric exonuclease PhoExo I. <i>Nucleic Acids Research</i> , 2015, 43, 7122-7136.	6.5	7
131	Comparing PCR-generated artifacts of different polymerases for improved accuracy of DNA metabarcoding. <i>Metabarcoding and Metagenomics</i> , 0, 6, .	0.0	7
132	Fluorescent labeling of a DNA sequencing primer. <i>DNA Sequence</i> , 1993, 4, 135-141.	0.7	6
133	Reverse-Chaperoning Activity of an AAA+ Protein. <i>Biophysical Journal</i> , 2011, 100, 1344-1352.	0.2	6
134	The mesophilic archaeon <i>Methanosarcina acetivorans</i> counteracts uracil in DNA with multiple enzymes: EndoQ, ExoIII, and UDG. <i>Scientific Reports</i> , 2018, 8, 15791.	1.6	6
135	Development of a time-series shotgun metagenomics database for monitoring microbial communities at the Pacific coast of Japan. <i>Scientific Reports</i> , 2021, 11, 12222.	1.6	6
136	The amino acid sequence required for 5' to 3' exonuclease activity of <i>Bacillus caldotenax</i> DNA polymerase. <i>Protein Engineering, Design and Selection</i> , 1995, 8, 1171-1175.	1.0	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. <i>Gene</i> , 2016, 576, 690-695.	1.0	5
139	DNA polymerase D temporarily connects primase to the CMG-like helicase before interacting with proliferating cell nuclear antigen. <i>Nucleic Acids Research</i> , 2021, 49, 4599-4612.	6.5	5
140	New insights into the diversity and evolution of the archaeal mobilome from three complete genomes of <i>Saccharolobus shibatae</i> . <i>Environmental Microbiology</i> , 2021, 23, 4612-4630.	1.8	5
141	Metagenomic analysis provides functional insights into seasonal change of a non-cyanobacterial prokaryotic community in temperate coastal waters. <i>PLoS ONE</i> , 2021, 16, e0257862.	1.1	5
142	Dinucleotide repeat polymorphism at the D8S1055. <i>Japanese Journal of Human Genetics</i> , 1994, 39, 441-443.	0.8	4
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