Roger A Garrett

List of Publications by Year
in descending order

218 papers	14,860 citations	20797 60 h-index	23514 111 g-index
226 all docs	226 docs citations	226 times ranked	7849 citing authors

#	Article	IF	Citations
1	An updated evolutionary classification of CRISPRâ€“Cas systems. Nature Reviews Microbiology, 2015, 13, 722-736.	13.6	2,081
2	Evolutionary classification of CRISPRâ€“Cas systems: a burst of class 2 and derived variants. Nature Reviews Microbiology, 2020, 18, 67-83.	13.6	1,427
3	Viruses of the Archaea: a unifying view. Nature Reviews Microbiology, 2006, 4, 837-848.	13.6	344
4	Protospacer recognition motifs. RNA Biology, 2013, 10, 891-899.	1.5	309
5	The Genome of Sulfolobus acidocaldarius , a Model Organism of the Crenarchaeota. Journal of Bacteriology, 2005, 187, 4992-4999.	1.0	262
6	The mosaic genome structure of the <i>Wolbachia w</i> Ri strain infecting <i>Drosophila simulans</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5725-5730.	3.3	236
7	A putative viral defence mechanism in archaeal cells. Archaea, 2006, 2, 59-72.	2.3	235
8	A novel interference mechanism by a type <scp>IIIB CRISPR</scp>â€<scp>Cmr</scp> module in <i><scp>S</scp>ulfolobus</i>. Molecular Microbiology, 2013, 87, 1088-1099.	1.2	224
9	CRISPR families of the crenarchaeal genus <i>Sulfolobus:</i> bidirectional transcription and dynamic properties. Molecular Microbiology, 2009, 72, 259-272.	1.2	214
10	Dynamic properties of the <i>Sulfolobus</i> CRISPR/Cas and CRISPR/Cmr systems when challenged with vectorâ€borne viral and plasmid genes and protospacers. Molecular Microbiology, 2011, 79, 35-49.	1.2	205
11	Evolutionary relationships amongst archaebacteria. Journal of Molecular Biology, 1987, 195, 43-61.	2.0	198
12	Evolutionary genomics of archaeal viruses: Unique viral genomes in the third domain of life. Virus Research, 2006, 117, 52-67.	1.1	198
13	Identification of novel non-coding RNAs as potential antisense regulators in the archaeon Sulfolobus solfataricus. Molecular Microbiology, 2004, 55, 469-481.	1.2	189
14	The primary structures of two leghemoglobin genes from soybean. Nucleic Acids Research, 1982, 10, 689-701.	6.5	171
15	Independent virus development outside a host. Nature, 2005, 436, 1101-1102.	13.7	169
16	Fine Structure of the Peptidyl Transferase Centre on 23 S-like rRNAs Deduced from Chemical Probing of Antibiotic-Ribosome Complexes. Journal of Molecular Biology, 1995, 247, 224-235.	2.0	153
17	Sequence, organization, transcription and evolution of RNA polymerase subunit genes from the archaebacterial extreme halophiles Halobacterium halobium and Halococcus morrhuae. Journal of Molecular Biology, 1989, 206, 1-17.	2.0	148
18	Genetic elements in the extremely thermophilic archaeon Sulfolobus. Extremophiles, 1998, 2, 131-140.	0.9	148

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19	Genome Analyses of Icelandic Strains of<i>Sulfolobus islandicus</i>, Model Organisms for Genetic and Virus-Host Interaction Studies. Journal of Bacteriology, 2011, 193, 1672-1680.	1.0	139
20	Novel splicing mechanism for the ribosomal RNA intron in the archaebacterium desulfurococcus mobilis. Cell, 1988, 54, 693-703.	13.5	136
21	Characterization of the binding sites of protein L11 and the L10.(L12)4 pentameric complex in the GTPase domain of 23 S ribosomal RNA from Escherichia coli. Journal of Molecular Biology, 1990, 213, 275-288.	2.0	134
22	Selective and hyperactive uptake of foreign DNA by adaptive immune systems of an archaeon via two distinct mechanisms. Molecular Microbiology, 2012, 85, 1044-1056.	1.2	134
23	CRISPR adaptive immune systems of Archaea. RNA Biology, 2014, 11, 156-167.	1.5	129
24	Type IV CRISPRâ€“Cas systems are highly diverse and involved in competition between plasmids. Nucleic Acids Research, 2020, 48, 2000-2012.	6.5	128
25	AFV1, a novel virus infecting hyperthermophilic archaea of the genus acidianus. Virology, 2003, 315, 68-79.	1.1	124
26	An Investigation of the 16-S RNA Binding Sites of Ribosomal Proteins S4, S8, S15 and S20 from Escherichia coli. FEBS Journal, 1975, 51, 165-180.	0.2	115
27	The antibiotic thiostrepton inhibits a functional transition within protein L11 at the ribosomal GTPase centre 1 1Edited by D. E. Draper. Journal of Molecular Biology, 1998, 276, 391-404.	2.0	114
28	Divergent transcriptional and translational signals in Archaea. Environmental Microbiology, 2005, 7, 47-54.	1.8	113
29	Sequences and Replication of Genomes of the Archaeal Rudiviruses SIRV1 and SIRV2: Relationships to the Archaeal Lipothrixvirus SIFV and Some Eukaryal Viruses. Virology, 2001, 291, 226-234.	1.1	112
30	Morphology and genome organization of the virus PSV of the hyperthermophilic archaeal genera Pyrobaculum and Thermoproteus: a novel virus family, the Globuloviridae. Virology, 2004, 323, 233-242.	1.1	112
31	Structural and Genomic Properties of the Hyperthermophilic Archaeal Virus ATV with an Extracellular Stage of the Reproductive Cycle. Journal of Molecular Biology, 2006, 359, 1203-1216.	2.0	110
32	The genetic element pSSVx of the extremely thermophilic crenarchaeon Sulfolobus is a hybrid between a plasmid and a virus. Molecular Microbiology, 1999, 34, 217-226.	1.2	107
33	The Scottish Structural Proteomics Facility: targets, methods and outputs. Journal of Structural and Functional Genomics, 2010, 11, 167-180.	1.2	107
34	An intron in the 23S ribosomal RNA gene of the archaebacterium Desulfurococcus mobilis. Nature, 1985, 318, 675-677.	13.7	104
35	Relationships between fuselloviruses infecting the extremely thermophilic archaeon Sulfolobus: SSV1 and SSV2. Research in Microbiology, 2003, 154, 295-302.	1.0	104
36	Viral Diversity in Hot Springs of Pozzuoli, Italy, and Characterization of a Unique Archaeal Virus, Acidianus Bottle-Shaped Virus, from a New Family, the Ampullaviridae. Journal of Virology, 2005, 79, 9904-9911.	1.5	101

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37	Comprehensive search for accessory proteins encoded with archaeal and bacterial type III CRISPR-<i>cas</i> gene cassettes reveals 39 new <i>cas</i> gene families. RNA Biology, 2019, 16, 530-542.	1.5	97
38	Archaeal CRISPR-based immune systems: exchangeable functional modules. Trends in Microbiology, 2011, 19, 549-556.	3.5	96
39	A plasmid-coded and site-directed mutation in Escherichia coli 23S RNA that confers resistance to erythromycin: implications for the mechanism of action of erythromycin. Biochimie, 1987, 69, 891-900.	1.3	94
40	Distribution of CRISPR spacer matches in viruses and plasmids of crenarchaeal acidothermophiles and implications for their inhibitory mechanism. Biochemical Society Transactions, 2009, 37, 23-28.	1.6	93
41	CRISPR/Cas and Cmr modules, mobility and evolution of adaptive immune systems. Research in Microbiology, 2011, 162, 27-38.	1.0	92
42	Mobile elements in archaeal genomes. FEMS Microbiology Letters, 2002, 206, 131-141.	0.7	89
43	Genomic comparison of archaeal conjugative plasmids from<i>Sulfolobus</i>. Archaea, 2004, 1, 231-239.	2.3	85
44	Four newly isolated fuselloviruses from extreme geothermal environments reveal unusual morphologies and a possible interviral recombination mechanism. Environmental Microbiology, 2009, 11, 2849-2862.	1.8	85
45	Characterizing leader sequences of CRISPR loci. Bioinformatics, 2016, 32, i576-i585.	1.8	81
46	Mapping Important Nucleotides in the Peptidyl Transferase Centre of 23 S rRNA using a Random Mutagenesis Approach. Journal of Molecular Biology, 1995, 249, 1-10.	2.0	76
47	Archaeal rRNA operons. Trends in Biochemical Sciences, 1991, 16, 22-26.	3.7	75
48	Sites of interaction of streptogramin A and B antibiotics in the peptidyl transferase loop of 23 S rRNA and the synergism of their inhibitory mechanisms 1 1Edited by D. E. Draper. Journal of Molecular Biology, 1999, 286, 375-387.	2.0	74
49	pING Family of Conjugative Plasmids from the Extremely Thermophilic Archaeon Sulfolobus islandicus: Insights into Recombination and Conjugation in Crenarchaeota. Journal of Bacteriology, 2000, 182, 7014-7020.	1.0	74
50	Viruses of hyperthermophilic Crenarchaea. Trends in Microbiology, 2005, 13, 535-542.	3.5	74
51	An Attempt at the Identification of the Proteins Involved in the Incorporation of 5-S RNA during 50-S Ribosomal Subunit Assembly. FEBS Journal, 1972, 28, 412-421.	0.2	72
52	Molecular Model for 5-S RNA. A Small-Angle X-Ray Scattering Study of Native, Denatured and Aggregated 5-S RNA from Escherichia coli Ribosomes. FEBS Journal, 1976, 68, 481-487.	0.2	70
53	A ribonuclease-resistant region of 5S RNA and its relation to the RNA binding sites of proteins L18 and L25. Nucleic Acids Research, 1979, 6, 2453-2470.	6.5	70
54	Modulation of CRISPR locus transcription by the repeat-binding protein Cbp1 in Sulfolobus. Nucleic Acids Research, 2012, 40, 2470-2480.	6.5	70

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55	The phylogenetic relations of DNA-dependent RNA polymerases of archaebacteria, eukaryotes, and eubacteria. Canadian Journal of Microbiology, 1989, 35, 73-80.	0.8	69
56	Interâ€viral conflicts that exploit host <scp>CRISPR</scp> immune systems of <scp><i>S</i></scp><i>ulfolobus</i>. Molecular Microbiology, 2014, 91, 900-917.	1.2	68
57	Evolution of the family of pRN plasmids and their integrase-mediated insertion into the chromosome of the crenarchaeon Sulfolobus solfataricus 1 1Edited by J. Karn. Journal of Molecular Biology, 2000, 303, 449-454.	2.0	67
58	Genus-Specific Protein Binding to the Large Clusters of DNA Repeats (Short Regularly Spaced Repeats) Present in Sulfolobus Genomes. Journal of Bacteriology, 2003, 185, 2410-2417.	1.0	67
59	General vectors for archaeal hyperthermophiles: Strategies based on a mobile intron and a plasmid. FEMS Microbiology Reviews, 1996, 18, 93-104.	3.9	65
60	Higher order structure in the 3â€²-minor domain of small subunit ribosomal RNAs from a gram negative bacterium, a gram positive bacterium and a eukaryote. Journal of Molecular Biology, 1983, 169, 249-279.	2.0	64
61	CRISPR-based immune systems of the Sulfolobales: complexity and diversity. Biochemical Society Transactions, 2011, 39, 51-57.	1.6	64
62	Structure of 5 S ribosomal RNA from Escherichia coli: Identification of kethoxal-reactive sites in the A and B conformations. Journal of Molecular Biology, 1979, 132, 621-636.	2.0	61
63	A novel rudivirus, ARV1, of the hyperthermophilic archaeal genus Acidianus. Virology, 2005, 336, 83-92.	1.1	61
64	Studies on the binding of the ribosomal protein complex L7/12-L10 and protein L11 to the 5â€²-one third of 23S RNA: a functional centre of the 50S subunit. Nucleic Acids Research, 1979, 6, 2717-2729.	6.5	60
65	Mutations and Rearrangements in the Genome of Sulfolobus solfataricus P2. Journal of Bacteriology, 2006, 188, 4198-4206.	1.0	59
66	Completing the sequence of the Sulfolobus solfataricus P2 genome. Extremophiles, 1998, 2, 305-312.	0.9	58
67	Stygiolobus Rod-Shaped Virus and the Interplay of Crenarchaeal Rudiviruses with the CRISPR Antiviral System. Journal of Bacteriology, 2008, 190, 6837-6845.	1.0	58
68	Domain VI of Escherichia coli 23 S ribosomal RNA. Journal of Molecular Biology, 1988, 204, 507-522.	2.0	57
69	CRISPRstrand: predicting repeat orientations to determine the crRNA-encoding strand at CRISPR loci. Bioinformatics, 2014, 30, i489-i496.	1.8	57
70	Structure and accessibility of domain I of Escherichia coli 23 S RNA in free RNA, in the L24-RNA complex and in 50 S subunits. Journal of Molecular Biology, 1987, 196, 125-136.	2.0	56
71	The antibiotic micrococcin acts on protein L11 at the ribosomal GTPase centre 1 1Edited by D. E. Draper. Journal of Molecular Biology, 1999, 287, 33-45.	2.0	56
72	Structures of complexes of 5S RNA with ribosomal proteins L5, L18 and L25 from Escherichia coli: Identification of kethoxal-reactive sites on the 5S RNA. Journal of Molecular Biology, 1979, 132, 637-648.	2.0	54

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73	Secondary structure of prokaryotic 5S ribosomal ribonucleic acids: a study with ribonucleases. Biochemistry, 1981, 20, 7301-7307.	1.2	54
74	Movement of the 3â€²-end of tRNA through the peptidyl transferase centre and its inhibition by antibiotics. FEBS Letters, 1997, 406, 223-233.	1.3	54
75	Gene organization, transcription signals and processing of the single ribosomal RNA operon of the archaebacteriumThermoproteus tenax. Nucleic Acids Research, 1987, 15, 4821-4835.	6.5	53
76	Gene capture in archaeal chromosomes. Nature, 2001, 409, 478-478.	13.7	52
77	Binding sites of ribosomal proteins on prokaryotic 5S RNAs: a study with ribonucleases. Biochemistry, 1982, 21, 2313-2320.	1.2	51
78	A Ribosomal RNA Operon and its Flanking Region from the Archaebacterium Methanobacterium thermoautotrophicum, Marburg Strain: Transcription Signals, RNA Structure and Evolutionary Implications. Systematic and Applied Microbiology, 1987, 9, 199-209.	1.2	51
79	Structure and Genome Organization of AFV2, a Novel Archaeal Lipothrixvirus with Unusual Terminal and Core Structures. Journal of Bacteriology, 2005, 187, 3855-3858.	1.0	51
80	Evidence for tertiary structural RNA-RNA interactions within the protein S4 binding site at the 5â€²-end of 16S ribosomal RNA of Escherichia coli.+. Nucleic Acids Research, 1975, 2, 1867-1888.	6.5	50
81	A new method for the isolation of A 5 S RNA complex with proteins L5, L18 and L25 fromEscherichia coliribosomes. FEBS Letters, 1977, 74, 287-291.	1.3	50
82	Structure of a protein L23-RNA complex located at the A-site domain of the ribosomal peptidyl transferase centre. Journal of Molecular Biology, 1984, 179, 431-452.	2.0	50
83	Protein-coding introns from the 23S rRNA-encoding gene form stable circles in the hyperthermophilic archaeon Pyrobaculum organotrophum. Gene, 1992, 121, 103-110.	1.0	50
84	Attachment sites of primary binding proteins L1, L2 and L23 on 23 S ribosomal RNA of Escherichia coli. Journal of Molecular Biology, 1991, 222, 251-264.	2.0	49
85	Genome of the Acidianus bottle-shaped virus and insights into the replication and packaging mechanisms. Virology, 2007, 364, 237-243.	1.1	49
86	Structure of the <i>Acidianus</i> Filamentous Virus 3 and Comparative Genomics of Related Archaeal Lipothrixviruses. Journal of Virology, 2008, 82, 371-381.	1.5	49
87	Conservation of the Type IV Secretion System throughout Wolbachia evolution. Biochemical and Biophysical Research Communications, 2009, 385, 557-562.	1.0	49
88	A new RNA-RNA crosslinking reagent and its application to ribosomal 5S RNA. Nucleic Acids Research, 1978, 5, 4065-4076.	6.5	46
89	Alteration of 5S RNA conformation by ribosomal proteins L18 and L25. Nucleic Acids Research, 1977, 4, 2511-2526.	6.5	45
90	Novel expression of the ribosomal RNA genes in the extreme thermophile and archaebacterium <i>Desulfurococcus mobilis</i>. EMBO Journal, 1987, 6, 3521-3530.	3.5	45

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91	Ribosomal Mechanics, Antibiotics, and GTP Hydrolysis. Cell, 1999, 97, 423-426.	13.5	45
92	Comparison of transfer RNA and ribosomal RNA intron splicing in the extreme thermophile and archaebacterium <i>Desulfurococcus mobilis</i>. Canadian Journal of Microbiology, 1989, 35, 210-214.	0.8	44
93	CRISPR-Cas systems are widespread accessory elements across bacterial and archaeal plasmids. Nucleic Acids Research, 2022, 50, 4315-4328.	6.5	44
94	Novel insights into gene regulation of the rudivirus SIRV2 infecting<i>Sulfolobus</i>cells. RNA Biology, 2013, 10, 875-885.	1.5	43
95	A Sparsomycin-resistant Mutant ofHalobacterium salinariumLacks a Modification at Nucleotide U2603 in the Peptidyl Transferase Centre of 23 S rRNA. Journal of Molecular Biology, 1996, 261, 231-238.	2.0	42
96	Structure of Bacterial Ribosomes. Advances in Protein Chemistry, 1973, 27, 277-347.	4.4	41
97	Structural Characteristics of the Stable RNA Introns of Archaeal Hyperthermophiles and their Splicing Junctions. Journal of Molecular Biology, 1994, 243, 846-855.	2.0	41
98	The genome of<i>Hyperthermus butylicus</i>: a sulfur-reducing, peptide fermenting, neutrophilic Crenarchaeote growing up to 108 Â°C. Archaea, 2007, 2, 127-135.	2.3	41
99	Viruses in acidic geothermal environments of the Kamchatka Peninsula. Research in Microbiology, 2008, 159, 358-366.	1.0	41
100	Comparison of Escherichia coli tRNAPhe in the Free State, in the Ternary Complex and in the Ribosomal A and P Sites by Chemical Probing. FEBS Journal, 1983, 131, 261-269.	0.2	40
101	Non-autonomous mobile elements in the crenarchaeon Sulfolobus solfataricus11Edited by J. Karn. Journal of Molecular Biology, 2001, 306, 1-6.	2.0	40
102	The Topography of the 5' End of 16-S RNA in the Presence and Absence of Ribosomal Proteins S4 and S20. FEBS Journal, 1980, 103, 439-446.	0.2	39
103	Evolutionary divergence between the ribosomal RNA operons of Halococcus morrhuae and Desulfurococcus mobilis. Systematic and Applied Microbiology, 1986, 7, 49-57.	1.2	39
104	Metagenomic analyses of novel viruses and plasmids from a cultured environmental sample of hyperthermophilic neutrophiles. Environmental Microbiology, 2010, 12, 2918-2930.	1.8	39
105	CRISPR-Cas Adaptive Immune Systems of the Sulfolobales: Unravelling Their Complexity and Diversity. Life, 2015, 5, 783-817.	1.1	39
106	A novel single-tailed fusiform Sulfolobus virus STSV2 infecting model Sulfolobus species. Extremophiles, 2014, 18, 51-60.	0.9	38
107	Distribution of Protein Assembly Sites along the 23-S Ribosomal RNA of Escherichia coli. FEBS Journal, 1976, 69, 401-410.	0.2	37
108	Structure of eukaryotic 5S ribonucleic acid: a study of Saccharomyces cerevisiae 5S RNA with ribonucleases. Biochemistry, 1982, 21, 4823-4830.	1.2	37

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109	The Donor Substrate Site within the Peptidyl Transferase Loop of 23 S rRNA and its Putative Interactions with the CCA-end of N-blocked Aminoacyl-tRNAPhe. Journal of Molecular Biology, 1996, 264, 472-483.	2.0	37
110	Getting the best out of long-wavelength X-rays:<i>de novo</i>chlorine/sulfur SAD phasing of a structural protein from ATV. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 304-308.	2.5	37
111	Assembly of proteins and 5 S rRNA to transcripts of the major structural domains of 23 S rRNA 1 1Edited by D. E. Draper. Journal of Molecular Biology, 1998, 284, 227-240.	2.0	36
112	A Dimeric Rep Protein Initiates Replication of a Linear Archaeal Virus Genome: Implications for the Rep Mechanism and Viral Replication. Journal of Virology, 2011, 85, 925-931.	1.5	36
113	The RNA binding properties of â€˜nativeâ€™ protein-protein complexes isolated from the Escherichia coli ribosome. FEBS Letters, 1977, 77, 295-300.	1.3	35
114	Multiple variants of the archaeal DNA rudivirus SIRV1 in a single host and a novel mechanism of genomic variation. Molecular Microbiology, 2004, 54, 366-375.	1.2	35
115	Genomic analysis of Acidianus hospitalis W1 a host for studying crenarchaeal virus and plasmid life cycles. Extremophiles, 2011, 15, 487-497.	0.9	35
116	Cross-hypersensitivity Effects of Mutations in 23 S rRNA Yield Insight into Aminoacyl-tRNA Binding. Journal of Molecular Biology, 1994, 244, 151-157.	2.0	34
117	DNA substrate specificity and cleavage kinetics of an archaeal homing-type endonuclease from Pyrobaculum organotrophum. Nucleic Acids Research, 1994, 22, 4583-4590.	6.5	34
118	Transcriptome changes in STSV2â€infected <i>Sulfolobus islandicus</i>â€…REY15A undergoing continuous CRISPR spacer acquisition. Molecular Microbiology, 2016, 99, 719-728.	1.2	34
119	Role for the highly conserved region of domain IV of 23 S-1 ike rRNA in subunit-subunit interactions at the peptidyl transferase centre. Nucleic Acids Research, 1995, 23, 1512-1517.	6.5	33
120	A Trypsin-Resistant Fragment from Complexes of Ribosomal Protein S4 with 16-S RNA of Escherichia coli and from the Uncomplexed Protein. FEBS Journal, 1977, 76, 51-61.	0.2	32
121	Protein L18 binds primarily at the junctions of helix II and internal loops A and B in Escherichia coli 5 S RNA. Journal of Molecular Biology, 1989, 206, 651-668.	2.0	32
122	Peptidyl transferase antibiotics perturb the relative positioning of the 3â€²-terminal adenosine of P/Pâ€²-site-bound tRNA and 23S rRNA in the ribosome. Rna, 1999, 5, 1003-1013.	1.6	31
123	Chemical Evidence for a Codon-Induced Allosteric Change in tRNALys Involving the 7-Methylguanosine Residue 46. FEBS Journal, 1979, 97, 615-621.	0.2	30
124	The sequence of the 16S RNA gene and its flanking region from the archaebacterium Desulfurococcus mobilis. Systematic and Applied Microbiology, 1987, 9, 22-28.	1.2	30
125	A partial localisation of the binding sites of the 50 S subunit proteins L1, L20 and L23 on 23 S ribosomal RNA of Escherichia coli. FEBS Letters, 1975, 52, 195-201.	1.3	28
126	The Binding Site of Protein L1 on 23-S Ribosomal RNA of Escherichia coil. 2. Identification of the RNA Region Contained in the Ll Ribonucleoproteins and Determination of the Order of the RNA Subfragments within this Region. FEBS Journal, 1976, 70, 457-469.	0.2	28

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127	Mechanics of the ribosome. Nature, 1999, 400, 811-812.	13.7	28
128	Phylogenetic Relationships Amongst the Hyperthermophilic Archaea Determined from Partial 23S rRNA Gene Sequences. Systematic and Applied Microbiology, 1992, 15, 203-208.	1.2	27
129	Puromycinâ€“rRNA interaction sites at the peptidyl transferase center. Rna, 2000, 6, 744-754.	1.6	26
130	Chaperone Role for Proteins p618 and p892 in the Extracellular Tail Development of Acidianus Two-Tailed Virus. Journal of Virology, 2011, 85, 4812-4821.	1.5	26
131	Small-Angle X-Ray Studies on the Structure of 16-S Ribosomal RNA and of a Complex of Ribosomal Protein S4 and 16-S Ribosomal RNA from Escherichia coli. FEBS Journal, 1975, 59, 63-71.	0.2	24
132	Fragment of protein L18 from the Escherichia coli ribosome that contains the 5S RNA binding site. Nucleic Acids Research, 1978, 5, 1753-1766.	6.5	24
133	Alternative conformers of 5S ribosomal RNA and their biological relevance. Biochemistry, 1985, 24, 2284-2291.	1.2	23
134	Sulfolobus genome: from genomics to biology. Current Opinion in Microbiology, 1998, 1, 584-588.	2.3	23
135	Novel RepA-MCM proteins encoded in plasmids pTAU4, pORA1 and pTIK4 from<i>Sulfolobus neozealandicus</i>. Archaea, 2005, 1, 319-325.	2.3	23
136	The expression of one ankyrin pk2 allele of the WO prophage is correlated with the Wolbachia feminizing effect in isopods. BMC Microbiology, 2012, 12, 55.	1.3	23
137	Archaeal virusesâ€"novel, diverse and enigmatic. Science China Life Sciences, 2012, 55, 422-433.	2.3	23
138	The role of the basic N-terminal region of protein L18 in 5S RNAâ€“23S RNA complex formation. Nucleic Acids Research, 1980, 8, 4131-4142.	6.5	22
139	Comparison of eubacterial and eukaryotic 5S RNA structures: a chemical modification study. Biochemistry, 1985, 24, 241-250.	1.2	22
140	SMV1 virus-induced CRISPR spacer acquisition from the conjugative plasmid pMGB1 in <i>Sulfolobus solfataricus</i> P2. Biochemical Society Transactions, 2013, 41, 1449-1458.	1.6	22
141	A consensus model of the Escherichia coli ribosome. Trends in Biochemical Sciences, 1983, 8, 359-363.	3.7	21
142	[30] Enzymatic and chemical probing of ribosomal RNAâ€"Protein interactions. Methods in Enzymology, 1988, 164, 456-468.	0.4	21
143	Sequence, Organization and Transcription of the Ribosomal RNA Operon and the Downstream tRNA and Protein Genes in the Archaebacterium Thermofilum pendents. Systematic and Applied Microbiology, 1990, 13, 117-127.	1.2	21
144	Antibiotic inhibition of the movement of tRNA substrates through a peptidyl transferase cavity. Biochemistry and Cell Biology, 1995, 73, 877-885.	0.9	21

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145	Archaea and the new age of microorganisms. Trends in Ecology and Evolution, 1998, 13, 190-194.	4.2	21
146	Secondary structural elements exclusive to the sequences flanking ribosomal RNAs lend support to the monophyletic nature of the archaebacteria. Journal of Molecular Evolution, 1990, 31, 25-32.	0.8	20
147	Characterization and transcriptional analysis of two gene clusters for typeÂIVÂsecretion machinery in Wolbachia of Armadillidium vulgare. Research in Microbiology, 2008, 159, 481-485.	1.0	20
148	Repression of RNA polymerase by the archaeo-viral regulator ORF145/RIP. Nature Communications, 2016, 7, 13595.	5.8	20
149	Low angle X-ray diffraction from dilute nucleohistone gels. Nucleic Acids and Protein Synthesis, 1971, 246, 553-560.	1.7	19
150	Small-Angle X-Ray Titration Study on the Complex Formation between 5-S RNA and the L18 Protein of the Escherichia coli 50-S Ribosome Particle. FEBS Journal, 1977, 79, 67-72.	0.2	19
151	RNA-RNA interactions in the binding site of protein L24 on 23S ribosomal RNA of Escherichia coli: 1. Evidence for their occurrence between widely separated sequence regions. Nucleic Acids Research, 1978, 5, 3503-3514.	6.5	19
152	Molecular evolution: The uniqueness of Archaebacteria. Nature, 1985, 318, 233-234.	13.7	19
153	Higher-order structure in the 3â€²-terminal domain VI of the 23 S ribosomal RNAs from Escherichia coli and Bacillus stearothermophilus. Journal of Molecular Biology, 1984, 179, 689-712.	2.0	18
154	UV-induced modifications in the peptidyl transferase loop of 23S rRNA dependent on binding of the streptogramin B antibiotic, pristinamycin IA. Rna, 1999, 5, 585-595.	1.6	18
155	Diverse CRISPR-Cas responses and dramatic cellular DNA changes and cell death in pKEF9-conjugated<i>Sulfolobus</i>species. Nucleic Acids Research, 2016, 44, 4233-4242.	6.5	18
156	The Binding Site of Protein L1 on 23-S Ribosomal RNA of Escherichia coli. 1. Isolation and Characterization. FEBS Journal, 1976, 70, 447-456.	0.2	16
157	Archaeal rRNA Operons, Intron Splicing and Homing Endonucleases, RNA Polymerase Operons and Phylogeny. Systematic and Applied Microbiology, 1993, 16, 680-691.	1.2	15
158	AAA ATPase p529 of Acidianus two-tailed virus ATV and host receptor recognition. Virology, 2011, 421, 61-66.	1.1	15
159	Major and minor crRNA annealing sites facilitate low stringency DNA protospacer binding prior to Type I-A CRISPR-Cas interference in <i>Sulfolobus</i>. RNA Biology, 2016, 13, 1166-1173.	1.5	15
160	The characterisation of a fragment of ribosomal protein S4 that is protected against trypsin digestion by 16S ribosomal RNA of Escherichia coli. Nucleic Acids Research, 1975, 2, 931-942.	6.5	14
161	Native and denatured structures within the 5â€²-region of 16 S ribosomal RNA from Escherichia coli. FEBS Letters, 1977, 84, 37-42.	1.3	14
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