Konstantin V Severinov

List of Publications by Year
in descending order

166 papers	12,435 citations	53751 45 h-index	30894 102 g-index
178 all docs	178 docs citations	178 times ranked	9904 citing authors

#	Article	IF	Citations
1	C2c2 is a single-component programmable RNA-guided RNA-targeting CRISPR effector. Science, 2016, 353, aaf5573.	6.0	1,647
2	Discovery and Functional Characterization of Diverse Class 2 CRISPR-Cas Systems. Molecular Cell, 2015, 60, 385-397.	4.5	971
3	Diversity and evolution of class 2 CRISPRâ€“Cas systems. Nature Reviews Microbiology, 2017, 15, 169-182.	13.6	792
4	Crystal Structure of Thermus aquaticus Core RNA Polymerase at 3.3 Ã… Resolution. Cell, 1999, 98, 811-824.	13.5	766
5	Multiplex gene editing by CRISPRâ€“Cpf1 using a single crRNA array. Nature Biotechnology, 2017, 35, 31-34.	9.4	736
6	Interference by clustered regularly interspaced short palindromic repeat (CRISPR) RNA is governed by a seed sequence. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10098-10103.	3.3	665
7	Molecular memory of prior infections activates the CRISPR/Cas adaptive bacterial immunity system. Nature Communications, 2012, 3, 945.	5.8	490
8	CRISPR Immunity Relies on the Consecutive Binding and Degradation of Negatively Supercoiled Invader DNA by Cascade and Cas3. Molecular Cell, 2012, 46, 595-605.	4.5	475
9	Transcription, processing and function of CRISPR cassettes in <i>Escherichia coli</i>. Molecular Microbiology, 2010, 77, 1367-1379.	1.2	203
10	Type I-E CRISPR-Cas Systems Discriminate Target from Non-Target DNA through Base Pairing-Independent PAM Recognition. PLoS Genetics, 2013, 9, e1003742.	1.5	187
11	The CRISPR Spacer Space Is Dominated by Sequences from Species-Specific Mobilomes. MBio, 2017, 8, .	1.8	181
12	Expressed Protein Ligation, a Novel Method for Studying Protein-Protein Interactions in Transcription. Journal of Biological Chemistry, 1998, 273, 16205-16209.	1.6	178
13	Development of Giant Bacteriophage Ï•KZ Is Independent of the Host Transcription Apparatus. Journal of Virology, 2014, 88, 10501-10510.	1.5	144
14	Systematic prediction of genes functionally linked to CRISPR-Cas systems by gene neighborhood analysis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5307-E5316.	3.3	138
15	Aspartyl-tRNA Synthetase Is the Target of Peptide Nucleotide Antibiotic Microcin C. Journal of Biological Chemistry, 2006, 281, 18033-18042.	1.6	137
16	Lowâ€molecularâ€weight postâ€translationally modified microcins. Molecular Microbiology, 2007, 65, 1380-1394.	1.2	132
17	Systematic Structure-Activity Analysis of Microcin J25. Journal of Biological Chemistry, 2008, 283, 25589-25595.	1.6	112
18	Structure Studies of the CRISPR-Csm Complex Reveal Mechanism of Co-transcriptional Interference. Cell, 2019, 176, 239-253.e16.	13.5	110

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19	The <i>Escherichia coli</i> Yej Transporter Is Required for the Uptake of Translation Inhibitor Microcin C. Journal of Bacteriology, 2007, 189, 8361-8365.	1.0	108
20	BREX system of<i>Escherichia coli</i>distinguishes self from non-self by methylation of a specific DNA site. Nucleic Acids Research, 2019, 47, 253-265.	6.5	105
21	Systematic prediction of control proteins and their DNA binding sites. Nucleic Acids Research, 2009, 37, 441-451.	6.5	102
22	High-throughput analysis of type I-E CRISPR/Cas spacer acquisition in<i>E. coli</i>. RNA Biology, 2013, 10, 716-725.	1.5	98
23	CRISPR interference and priming varies with individual spacer sequences. Nucleic Acids Research, 2015, 43, 10831-10847.	6.5	95
24	Foreign DNA acquisition by the I-FÂCRISPRâ€"Cas system requires all components of the interference machinery. Nucleic Acids Research, 2015, 43, 10848-10860.	6.5	88
25	Highly efficient primed spacer acquisition from targets destroyed by the <i>Escherichia coli</i> type I-E CRISPR-Cas interfering complex. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7626-7631.	3.3	83
26	The genome of AR9, a giant transducing Bacillus phage encoding two multisubunit RNA polymerases. Virology, 2016, 495, 185-196.	1.1	81
27	Histidine-tagged RNA polymerase of Escherichia coli and transcription in solid phase. Methods in Enzymology, 1996, 274, 326-334.	0.4	79
28	Ultrahigh-throughput functional profiling of microbiota communities. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9551-9556.	3.3	79
29	Structure, Bioactivity, and Resistance Mechanism of Streptomonomicin, an Unusual Lasso Peptide from an Understudied Halophilic Actinomycete. Chemistry and Biology, 2015, 22, 241-250.	6.2	78
30	<i>Escherichia coli</i> Peptidase A, B, or N Can Process Translation Inhibitor Microcin C. Journal of Bacteriology, 2008, 190, 2607-2610.	1.0	73
31	Kinetics of the CRISPR-Cas9 effector complex assembly and the role of 3â€²-terminal segment of guide RNA. Nucleic Acids Research, 2016, 44, 2837-2845.	6.5	71
32	Mechanism of duplex DNA destabilization by RNA-guided Cas9 nuclease during target interrogation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5443-5448.	3.3	67
33	RifR mutations in the beginning of the Escherichia coli rpoB gene. Molecular Genetics and Genomics, 1994, 244, 120-126.	2.4	65
34	Pervasive generation of oppositely oriented spacers during CRISPR adaptation. Nucleic Acids Research, 2014, 42, 5907-5916.	6.5	65
35	The action of<i>Escherichia coli</i>CRISPRâ€"Cas system on lytic bacteriophages with different lifestyles and development strategies. Nucleic Acids Research, 2017, 45, gkx042.	6.5	62
36	Genomic and Proteomic Analysis of phiEco32, a Novel Escherichia coli Bacteriophage. Journal of Molecular Biology, 2008, 377, 774-789.	2.0	61

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37	Thermus thermophilus Bacteriophage Ï•YS40 Genome and Proteomic Characterization of Virions. Journal of Molecular Biology, 2006, 364, 667-677.	2.0	60
38	Structure-based analysis of RNA polymerase function: the largest subunit's rudder contributes critically to elongation complex stability and is not involved in the maintenance of RNA-DNA hybrid length. EMBO Journal, 2002, 21, 1369-1378.	3.5	59
39	Metagenomic Analysis of Bacterial Communities of Antarctic Surface Snow. Frontiers in Microbiology, 2016, 7, 398.	1.5	58
40	Function of the CRISPR-Cas System of the Human Pathogen Clostridium difficile. MBio, 2015, 6, e01112-15.	1.8	57
41	Genome Comparison and Proteomic Characterization of Thermus thermophilus Bacteriophages P23-45 and P74-26: Siphoviruses with Triplex-forming Sequences and the Longest Known Tails. Journal of Molecular Biology, 2008, 378, 468-480.	2.0	56
42	Systematic Identification of Hypothetical Bacteriophage Proteins Targeting Key Protein Complexes of <i>Pseudomonas aeruginosa</i>. Journal of Proteome Research, 2014, 13, 4446-4456.	1.8	54
43	Cryo-EM structure and in vitro DNA packaging of a thermophilic virus with supersized T=7 capsids. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3556-3561.	3.3	54
44	Phage T7 DNA mimic protein Ocr is a potent inhibitor of BREX defence. Nucleic Acids Research, 2020, 48, 5397-5406.	6.5	53
45	Microcin C: biosynthesis and mechanisms of bacterial resistance. Future Microbiology, 2012, 7, 281-289.	1.0	51
46	Virus-borne mini-CRISPR arrays are involved in interviral conflicts. Nature Communications, 2019, 10, 5204.	5.8	50
47	Single-nucleotide-resolution mapping of DNA gyrase cleavage sites across the<i>Escherichia coli</i>genome. Nucleic Acids Research, 2019, 47, 1373-1388.	6.5	50
48	Transcription regulation of the type II restriction-modification system AhdI. Nucleic Acids Research, 2008, 36, 1429-1442.	6.5	48
49	Optimal number of spacers in CRISPR arrays. PLoS Computational Biology, 2017, 13, e1005891.	1.5	48
50	Architecture of Microcin B17 Synthetase: An Octameric Protein Complex Converting a Ribosomally Synthesized Peptide into a DNA Gyrase Poison. Molecular Cell, 2019, 73, 749-762.e5.	4.5	48
51	Structure of Microcin B-Like Compounds Produced by Pseudomonas syringae and Species Specificity of Their Antibacterial Action. Journal of Bacteriology, 2013, 195, 4129-4137.	1.0	47
52	A non-canonical multisubunit RNA polymerase encoded by a giant bacteriophage. Nucleic Acids Research, 2015, 43, gkv1095.	6.5	46
53	Structure of ribosome-bound azole-modified peptide phazolicin rationalizes its species-specific mode of bacterial translation inhibition. Nature Communications, 2019, 10, 4563.	5.8	45
54	Transcription regulation of the EcoRV restriction-modification system. Nucleic Acids Research, 2005, 33, 6942-6951.	6.5	41

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55	On the Role of the Escherichia coli RNA Polymerase Ïƒ70 Region 4.2 and Î±-Subunit C-terminal Domains in Promoter Complex Formation on the Extended â€“10 galP1 Promoter. Journal of Biological Chemistry, 2003, 278, 29710-29718.	1.6	40
56	Structural Basis of Leader Peptide Recognition in Lasso Peptide Biosynthesis Pathway. ACS Chemical Biology, 2019, 14, 1619-1627.	1.6	40
57	Structural and Mechanistic Basis for the Inhibition of Escherichia coli RNA Polymerase by T7 Gp2. Molecular Cell, 2012, 47, 755-766.	4.5	39
58	Using an Endogenous CRISPR-Cas System for Genome Editing in the Human Pathogen Clostridium difficile. Applied and Environmental Microbiology, 2019, 85, .	1.4	39
59	A new Bacillus cereus DNA-binding protein, HlyIIR, negatively regulates expression of B. cereus haemolysin II. Microbiology (United Kingdom), 2004, 150, 3691-3701.	0.7	37
60	Altered stoichiometry<i>Escherichia coli</i>Cascade complexes with shortened CRISPR RNA spacers are capable of interference and primed adaptation. Nucleic Acids Research, 2016, 44, 10849-10861.	6.5	37
61	Transcription regulation of restriction-modification system Ecl18kI. Nucleic Acids Research, 2009, 37, 5322-5330.	6.5	35
62	MccE Provides Resistance to Protein Synthesis Inhibitor Microcin C by Acetylating the Processed Form of the Antibiotic. Journal of Biological Chemistry, 2010, 285, 12662-12669.	1.6	35
63	Novel Fri1-like Viruses Infecting Acinetobacter baumanniiâ€”vB_AbaP_AS11 and vB_AbaP_AS12â€”Characterization, Comparative Genomic Analysis, and Host-Recognition Strategy.. Viruses, 2017, 9, 188.	1.5	35
64	Localization of the Escherichia coli RNA Polymerase Î²â€² Subunit Residue Phosphorylated by Bacteriophage T7 Kinase Gp0.7. Journal of Bacteriology, 2006, 188, 3470-3476.	1.0	34
65	The Mechanism of Microcin C Resistance Provided by the MccF Peptidase. Journal of Biological Chemistry, 2010, 285, 37944-37952.	1.6	34
66	The Pseudomonas aeruginosa PA14 ABC Transporter NppA1A2BCD Is Required for Uptake of Peptidyl Nucleoside Antibiotics. Journal of Bacteriology, 2015, 197, 2217-2228.	1.0	34
67	The Origins of Specificity in the Microcin-Processing Protease TldD/E. Structure, 2017, 25, 1549-1561.e5.	1.6	34
68	Transcription regulation of restriction-modification system Esp1396I. Nucleic Acids Research, 2009, 37, 3354-3366.	6.5	32
69	Microbial Arsenal of Antiviral Defenses. Part II. Biochemistry (Moscow), 2021, 86, 449-470.	0.7	32
70	Escherichia coli ItaT is a type II toxin that inhibits translation by acetylating isoleucyl-tRNAIle. Nucleic Acids Research, 2018, 46, 7873-7885.	6.5	31
71	Mapping CRISPR spaceromes reveals vast host-specific viromes of prokaryotes. Communications Biology, 2020, 3, 321.	2.0	31
72	Restrictionâ€“modification systems and bacteriophage invasion: Who wins?. Journal of Theoretical Biology, 2010, 266, 550-559.	0.8	30

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73	Bacteriostatic antibiotics promote CRISPR-Cas adaptive immunity by enabling increased spacer acquisition. Cell Host and Microbe, 2022, 30, 31-40.e5.	5.1	30
74	Structure and function of virion RNA polymerase of a crAss-like phage. Nature, 2021, 589, 306-309.	13.7	29
75	Temporal dynamics of methyltransferase and restriction endonuclease accumulation in individual cells after introducing a restriction-modification system. Nucleic Acids Research, 2016, 44, 790-800.	6.5	28
76	A Trojan-Horse Peptide-Carboxymethyl-Cytidine Antibiotic from <i>Bacillus amyloliquefaciens</i>. Journal of the American Chemical Society, 2016, 138, 15690-15698.	6.6	27
77	The Product of <i>Yersinia pseudotuberculosis mcc</i> Operon Is a Peptide-Cytidine Antibiotic Activated Inside Producing Cells by the TldD/E Protease. Journal of the American Chemical Society, 2017, 139, 16178-16187.	6.6	27
78	Systematic analysis of Type Iâ€E <i>Escherichia coli</i> CRISPRâ€Cas PAM sequences ability to promote interference and primed adaptation. Molecular Microbiology, 2019, 111, 1558-1570.	1.2	27
79	The Influence of Copy-Number of Targeted Extrachromosomal Genetic Elements on the Outcome of CRISPR-Cas Defense. Frontiers in Molecular Biosciences, 2016, 3, 45.	1.6	26
80	Transcription Profiling of Bacillus subtilis Cells Infected with AR9, a Giant Phage Encoding Two Multisubunit RNA Polymerases. MBio, 2017, 8, .	1.8	26
81	Type III CRISPR-Cas Systems: Deciphering the Most Complex Prokaryotic Immune System. Biochemistry (Moscow), 2021, 86, 1301-1314.	0.7	26
82	Biosynthesis of Translation Inhibitor Klebsazolicin Proceeds through Heterocyclization and N-Terminal Amidine Formation Catalyzed by a Single YcaO Enzyme. Journal of the American Chemical Society, 2018, 140, 5625-5633.	6.6	25
83	Efficient <i>in vivo</i> synthesis of lasso peptide pseudomycoidin proceeds in the absence of both the leader and the leader peptidase. Chemical Science, 2019, 10, 9699-9707.	3.7	25
84	Multisubunit RNA Polymerases of Jumbo Bacteriophages. Viruses, 2020, 12, 1064.	1.5	25
85	Spacer acquisition by Type III CRISPRâ€"Cas system during bacteriophage infection of Thermus thermophilus. Nucleic Acids Research, 2020, 48, 9787-9803.	6.5	24
86	Detection of spacer precursors formed in vivo during primed CRISPR adaptation. Nature Communications, 2019, 10, 4603.	5.8	23
87	â€˜Drcâ€™, a structurally novel ssDNA-binding transcription regulator of N4-related bacterial viruses. Nucleic Acids Research, 2020, 48, 445-459.	6.5	23
88	Microbial Arsenal of Antiviral Defenses â€" Part I. Biochemistry (Moscow), 2021, 86, 319-337.	0.7	23
89	A novel phage-encoded transcription antiterminator acts by suppressing bacterial RNA polymerase pausing. Nucleic Acids Research, 2012, 40, 4052-4063.	6.5	22
90	The RimL Transacetylase Provides Resistance to Translation Inhibitor Microcin C. Journal of Bacteriology, 2014, 196, 3377-3385.	1.0	22

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91	CRISPR RNA binding and DNA target recognition by purified Cascade complexes from Escherichia coli. Nucleic Acids Research, 2015, 43, 530-543.	6.5	22
92	A non-canonical multisubunit RNA polymerase encoded by the AR9 phage recognizes the template strand of its uracil-containing promoters. Nucleic Acids Research, 2017, 45, 5958-5967.	6.5	22
93	Defining the seed sequence of the Cas12b CRISPR-Cas effector complex. RNA Biology, 2019, 16, 413-422.	1.5	22
94	Natural Trojan horse inhibitors of aminoacyl-tRNA synthetases. RSC Chemical Biology, 2021, 2, 468-485.	2.0	22
95	Temporal Regulation of Gene Expression of the Escherichia coli Bacteriophage phiEco32. Journal of Molecular Biology, 2012, 416, 389-399.	2.0	21
96	Host RNA polymerase inhibitors encoded by Ï•KMV-like phages of pseudomonas. Virology, 2013, 436, 67-74.	1.1	21
97	The Cas6e ribonuclease is not required for interference and adaptation by the<i>E. coli</i>type I-E CRISPR-Cas system. Nucleic Acids Research, 2015, 43, 6049-6061.	6.5	21
98	Peptideâ€nucleotide antibiotic Microcin C is a potent inducer of stringent response and persistence in both sensitive and producing cells. Molecular Microbiology, 2017, 104, 463-471.	1.2	21
99	Full shut-off of Escherichia coli RNA-polymerase by T7 phage requires a small phage-encoded DNA-binding protein. Nucleic Acids Research, 2017, 45, 7697-7707.	6.5	21
100	Natural diversity of CRISPR spacers of <i>Thermus</i> : evidence of local spacer acquisition and global spacer exchange. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180092.	1.8	21
101	Xenogeneic Regulation of the Bacterial Transcription Machinery. Journal of Molecular Biology, 2019, 431, 4078-4092.	2.0	21
102	DNA targeting by Clostridium cellulolyticum CRISPRâ€“Cas9 Type II-C system. Nucleic Acids Research, 2020, 48, 2026-2034.	6.5	20
103	Helicobacter pylori with separate beta- and beta'-subunits of RNA polymerase is viable and can colonize conventional mice. Molecular Microbiology, 1999, 32, 131-138.	1.2	19
104	Spacer-length DNA intermediates are associated with Cas1 in cells undergoing primed CRISPR adaptation. Nucleic Acids Research, 2017, 45, 3297-3307.	6.5	19
105	Primed CRISPR adaptation in Escherichia coli cells does not depend on conformational changes in the Cascade effector complex detected in Vitro. Nucleic Acids Research, 2018, 46, 4087-4098.	6.5	19
106	PpCas9 from <i>Pasteurella pneumotropica</i>Ââ€”Âa compact Type II-C Cas9 ortholog active in human cells. Nucleic Acids Research, 2020, 48, 12297-12309.	6.5	19
107	Distinct pathways of RNA polymerase regulation by a phage-encoded factor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2017-2022.	3.3	18
108	Identification and characterization of andalusicin: N-terminally dimethylated class III lantibiotic from Bacillus thuringiensis sv. andalousiensis. IScience, 2021, 24, 102480.	1.9	18

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109	CRISPR Arrays Away from <i>cas</i> Genes. CRISPR Journal, 2020, 3, 535-549.	1.4	18
110	Efficient target cleavage by Type V Cas12a effectors programmed with split CRISPR RNA. Nucleic Acids Research, 2022, 50, 1162-1173.	6.5	18
111	Ribosome-controlled transcription termination is essential for the production of antibiotic microcin C. Nucleic Acids Research, 2014, 42, 11891-11902.	6.5	17
112	New Infestin-4 Mutants with Increased Selectivity against Factor XIIa. PLoS ONE, 2015, 10, e0144940.	1.1	17
113	Quantification of the affinities of CRISPRâ€“Cas9 nucleases for cognate protospacer adjacent motif (PAM) sequences. Journal of Biological Chemistry, 2020, 295, 6509-6517.	1.6	17
114	Regulation of RNA Polymerase Promoter Selectivity by Covalent Modification of DNA. Journal of Molecular Biology, 2004, 335, 103-111.	2.0	16
115	Biosynthesis of the RiPP trojan horse nucleotide antibiotic microcin C is directed by the <i>N</i>-formyl of the peptide precursor. Chemical Science, 2019, 10, 2391-2395.	3.7	16
116	Viral genome packaging terminase cleaves DNA using the canonical RuvC-like two-metal catalysis mechanism. Nucleic Acids Research, 2017, 45, gkw1354.	6.5	15
117	The bacteriophage LUZ24 â€œIgyâ€•peptide inhibits the Pseudomonas DNA gyrase. Cell Reports, 2021, 36, 109567.	2.9	15
118	Coupling of Downstream RNA Polymeraseâ€“Promoter Interactions with Formation of Catalytically Competent Transcription Initiation Complex. Journal of Molecular Biology, 2014, 426, 3973-3984.	2.0	14
119	Enzymatic Synthesis and Functional Characterization of Bioactive Microcin C-Like Compounds with Altered Peptide Sequence and Length. Journal of Bacteriology, 2015, 197, 3133-3141.	1.0	14
120	Interplay between Ïƒ region 3.2 and secondary channel factors during promoter escape by bacterial RNA polymerase. Biochemical Journal, 2017, 474, 4053-4064.	1.7	14
121	Regulation of gene expression in restriction-modification system Eco29kI. Nucleic Acids Research, 2011, 39, 4653-4663.	6.5	13
122	Cytological Immunostaining of HMGA2, LRP1B, and TP63 as Potential Biomarkers for Triaging Human Papillomavirus-Positive Women. Translational Oncology, 2019, 12, 959-967.	1.7	12
123	Substitutions in the Escherichia coli RNA polymerase inhibitor T7 Gp2 that allow inhibition of transcription when the primary interaction interface between Gp2 and RNA polymerase becomes compromised. Microbiology (United Kingdom), 2012, 158, 2753-2764.	0.7	12
124	Bacteriophage Xp10 anti-termination factor p7 induces forward translocation by host RNA polymerase. Nucleic Acids Research, 2015, 43, 6299-6308.	6.5	11
125	Avoidance of Trinucleotide Corresponding to Consensus Protospacer Adjacent Motif Controls the Efficiency of Prespacer Selection during Primed Adaptation. MBio, 2018, 9, .	1.8	11
126	New Insights Into Functions and Possible Applications of Clostridium difficile CRISPR-Cas System. Frontiers in Microbiology, 2018, 9, 1740.	1.5	11

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127	The Phage-Encoded N-Acetyltransferase Rac Mediates Inactivation of Pseudomonas aeruginosa Transcription by Cleavage of the RNA Polymerase Alpha Subunit. Viruses, 2020, 12, 976.	1.5	11
128	Mechanism of translation inhibition by type II GNAT toxin AtaT2. Nucleic Acids Research, 2020, 48, 8617-8625.	6.5	11
129	Translation-Targeting RiPPs and Where to Find Them. Frontiers in Genetics, 2020, 11, 226.	1.1	11
130	Diversity and Functions of Type II Topoisomerases. Acta Naturae, 2021, 13, 59-75.	1.7	11
131	Prespacers formed during primed adaptation associate with the Cas1â€“Cas2 adaptation complex and the Cas3 interference nucleaseâ€“helicase. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	11
132	Detection of CRISPR adaptation. Biochemical Society Transactions, 2020, 48, 257-269.	1.6	11
133	Come Together: CRISPR-Cas Immunity Senses the Quorum. Molecular Cell, 2016, 64, 1013-1015.	4.5	10
134	Controller protein of restrictionâ€“modification system Kpn2I affects transcription of its gene by acting as a transcription elongation roadblock. Nucleic Acids Research, 2018, 46, 10810-10826.	6.5	10
135	Position of Deltaproteobacteria Cas12e nuclease cleavage sites depends on spacer length of guide RNA. RNA Biology, 2020, 17, 1472-1479.	1.5	10
136	Reproducible Antigen Recognition by the Type I-F CRISPR-Cas System. CRISPR Journal, 2020, 3, 378-387.	1.4	9
137	Development of ONT-cappable-seq to unravel the transcriptional landscape of Pseudomonas phages. Computational and Structural Biotechnology Journal, 2022, 20, 2624-2638.	1.9	9
138	Rapid Multiplex Creation of Escherichia coli Strains Capable of Interfering with Phage Infection Through CRISPR. Methods in Molecular Biology, 2015, 1311, 147-159.	0.4	8
139	A Thermus phage protein inhibits host RNA polymerase by preventing template DNA strand loading during open promoter complex formation. Nucleic Acids Research, 2018, 46, 431-441.	6.5	8
140	Genome Maintenance Proteins Modulate Autoimmunity Mediated Primed Adaptation by the Escherichia coli Type I-E CRISPR-Cas System. Genes, 2019, 10, 872.	1.0	8
141	Cell-Free Mutant Analysis Combined with Structure Prediction of a Lasso Peptide Biosynthetic Protease B2. ACS Synthetic Biology, 2022, 11, 2022-2028.	1.9	8
142	The putative small terminase from the thermophilic dsDNA bacteriophage G20C is a nine-subunit oligomer. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 876-879.	0.7	7
143	The sabotage of the bacterial transcription machinery by a small bacteriophage protein. Bacteriophage, 2014, 4, e28520.	1.9	7
144	Novel Escherichia coli RNA Polymerase Binding Protein Encoded by Bacteriophage T5. Viruses, 2020, 12, 807.	1.5	7

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145	Large-Scale Identification and Analysis of C-Proteins. Methods in Molecular Biology, 2010, 674, 269-282.	0.4	7
146	RNA polymerase molecular beacon as tool for studies of RNA polymeraseâ€“promoter interactions. Methods, 2015, 86, 19-26.	1.9	6
147	Reiterative Synthesis by the Ribosome and Recognition of the N-Terminal Formyl Group by Biosynthetic Machinery Contribute to Evolutionary Conservation of the Length of Antibiotic Microcin C Peptide Precursor. MBio, 2019, 10, .	1.8	6
148	CRISPRâ€“Cas molecular beacons as tool for studies of assembly of CRISPRâ€“Cas effector complexes and their interactions with DNA. Methods in Enzymology, 2019, 616, 337-363.	0.4	6
149	Features of CRISPR-Cas Regulation Key to Highly Efficient and Temporally-Specific crRNA Production. Frontiers in Microbiology, 2017, 8, 2139.	1.5	5
150	Histidine-Triad Hydrolases Provide Resistance to Peptide-Nucleotide Antibiotics. MBio, 2020, 11, .	1.8	5
151	Uncertainty-aware and interpretable evaluation of Cas9â€“gRNA and Cas12aâ€“gRNA specificity for fully matched and partially mismatched targets with Deep Kernel Learning. Nucleic Acids Research, 2022, 50, e11-e11.	6.5	5
152	12-Fold symmetry of the putative portal protein from the<i>Thermus thermophilus</i>bacteriophage G20C determined by X-ray analysis. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1239-1241.	0.7	4
153	Liquid drop of DNA libraries reveals total genome information. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27300-27306.	3.3	4
154	Protospacer-Adjacent Motif Specificity during Clostridioides difficile Type I-B CRISPR-Cas Interference and Adaptation. MBio, 2021, 12, e0213621.	1.8	4
155	Human Short Peptidoglycan Recognition Protein PGLYRP1/Tag-7/PGRP-S Inhibits Listeria monocytogenes Intracellular Survival in Macrophages. Frontiers in Cellular and Infection Microbiology, 2020, 10, 582803.	1.8	4
156	Molecular basis of RNA polymerase promoter specificity switch revealed through studies of<i>Thermus</i>bacteriophage transcription regulator. Bacteriophage, 2014, 4, e29399.	1.9	3
157	Structural basis of template strand deoxyuridine promoter recognition by a viral RNA polymerase. Nature Communications, 2022, 13, .	5.8	3
158	SCRAMBLER: A Tool for <i>De Novo</i> CRISPR Array Reconstruction and Its Application for Analysis of the Structure of Prokaryotic Populations. CRISPR Journal, 2021, 4, 673-685.	1.4	2
159	Persistence of plasmids targeted by CRISPR interference in bacterial populations. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114905119.	3.3	2
160	GNATÂtoxins evolve toward narrow tRNA target specificities. Nucleic Acids Research, 2022, 50, 5807-5817.	6.5	2
161	Low-molecular-weight post-translationally modified microcins. Molecular Microbiology, 2007, 66, 277-277.	1.2	1
162	Effects of Population Dynamics on Establishment of a Restriction-Modification System in a Bacterial Host. Molecules, 2019, 24, 198.	1.7	1

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163	Human short peptidoglycan recognition protein PGLYRP1/Tagâ€•7/PGRPâ€•S inhibits <i>Listeria monocytogenes</i> intracellular survival in macrophages. FASEB Journal, 2021, 35, .	0.2	0
164	Self immunity and resistance mechanisms against trojan horse antibiotic â€•Microcin C7. FASEB Journal, 2010, 24, lb201.	0.2	0
165	Regulation of Gene Expression of phiEco32-like Bacteriophage 7-11. Viruses, 2022, 14, 555.	1.5	0
166	S51 Family Peptidases Provide Resistance to Peptidyl-Nucleotide Antibiotic McC. MBio, 2022, 13, e0080522.	1.8	0