

Karen L Maxwell

List of Publications by Year in descending order

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70
papers

6,308
citations

87888

38
h-index

98798

67
g-index

74
all docs

74
docs citations

74
times ranked

5106
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacteriophage genes that inactivate the CRISPR/Cas bacterial immune system. <i>Nature</i> , 2013, 493, 429-432.	27.8	689
2	Prophages mediate defense against phage infection through diverse mechanisms. <i>ISME Journal</i> , 2016, 10, 2854-2866.	9.8	363
3	Naturally Occurring Off-Switches for CRISPR-Cas9. <i>Cell</i> , 2016, 167, 1829-1838.e9.	28.9	345
4	Multiple mechanisms for CRISPR-Cas inhibition by anti-CRISPR proteins. <i>Nature</i> , 2015, 526, 136-139.	27.8	325
5	Anti-CRISPR: discovery, mechanism and function. <i>Nature Reviews Microbiology</i> , 2018, 16, 12-17.	28.6	288
6	Structural proteomics of an archaeon. <i>Nature Structural Biology</i> , 2000, 7, 903-909.	9.7	272
7	Inactivation of CRISPR-Cas systems by anti-CRISPR proteins in diverse bacterial species. <i>Nature Microbiology</i> , 2016, 1, 16085.	13.3	271
8	A New Group of Phage Anti-CRISPR Genes Inhibits the Type I-E CRISPR-Cas System of <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2014, 5, e00896.	4.1	224
9	A Broad-Spectrum Inhibitor of CRISPR-Cas9. <i>Cell</i> , 2017, 170, 1224-1233.e15.	28.9	211
10	Protein folding: Defining a "standard" set of experimental conditions and a preliminary kinetic data set of two-state proteins. <i>Protein Science</i> , 2005, 14, 602-616.	7.6	207
11	Structure Reveals Mechanisms of Viral Suppressors that Intercept a CRISPR RNA-Guided Surveillance Complex. <i>Cell</i> , 2017, 169, 47-57.e11.	28.9	191
12	Ig-Like Domains on Bacteriophages: A Tale of Promiscuity and Deceit. <i>Journal of Molecular Biology</i> , 2006, 359, 496-507.	4.2	169
13	A simple in vivo assay for increased protein solubility. <i>Protein Science</i> , 1999, 8, 1908-1911.	7.6	153
14	A chemical defence against phage infection. <i>Nature</i> , 2018, 564, 283-286.	27.8	142
15	Phage-Encoded Anti-CRISPR Defenses. <i>Annual Review of Genetics</i> , 2018, 52, 445-464.	7.6	125
16	HNH proteins are a widespread component of phage DNA packaging machines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6022-6027.	7.1	110
17	Viral Proteomics. <i>Microbiology and Molecular Biology Reviews</i> , 2007, 71, 398-411.	6.6	108
18	The Bacteriophage HK97 gp15 Moron Element Encodes a Novel Superinfection Exclusion Protein. <i>Journal of Bacteriology</i> , 2012, 194, 5012-5019.	2.2	107

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19	Long Noncontractile Tail Machines of Bacteriophages. <i>Advances in Experimental Medicine and Biology</i> , 2012, 726, 115-142.	1.6	101
20	A Unified Resource for Tracking Anti-CRISPR Names. <i>CRISPR Journal</i> , 2018, 1, 304-305.	2.9	94
21	The Diverse Impacts of Phage Morons on Bacterial Fitness and Virulence. <i>Advances in Virus Research</i> , 2019, 103, 1-31.	2.1	93
22	Mutagenesis of a Buried Polar Interaction in an SH3 Domain: A Sequence Conservation Provides the Best Prediction of Stability Effects. <i>Biochemistry</i> , 1998, 37, 16172-16182.	2.5	92
23	The phage tail tape measure protein, an inner membrane protein and a periplasmic chaperone play connected roles in the genome injection process of <i>Escherichia coli</i> phage HK97. <i>Molecular Microbiology</i> , 2015, 96, 437-447.	2.5	89
24	Immunoglobulin-like domains on bacteriophage: weapons of modest damage?. <i>Current Opinion in Microbiology</i> , 2007, 10, 382-387.	5.1	86
25	Potent Cas9 Inhibition in Bacterial and Human Cells by AcrIIc4 and AcrIIc5 Anti-CRISPR Proteins. <i>MBio</i> , 2018, 9, .	4.1	80
26	A phage-encoded anti-activator inhibits quorum sensing in <i>Pseudomonas aeruginosa</i> . <i>Molecular Cell</i> , 2021, 81, 571-583.e6.	9.7	80
27	Protein Folding Kinetics Beyond the ΔG^\ddagger Value: Using Multiple Amino Acid Substitutions to Investigate the Structure of the SH3 Domain Folding Transition State. <i>Journal of Molecular Biology</i> , 2002, 320, 389-402.	4.2	75
28	The Anti-CRISPR Story: A Battle for Survival. <i>Molecular Cell</i> , 2017, 68, 8-14.	9.7	69
29	Meet the Anti-CRISPRs: Widespread Protein Inhibitors of CRISPR-Cas Systems. <i>CRISPR Journal</i> , 2019, 2, 23-30.	2.9	68
30	Disabling a Type I-E CRISPR-Cas Nuclease with a Bacteriophage-Encoded Anti-CRISPR Protein. <i>MBio</i> , 2017, 8, .	4.1	63
31	The Crystal Structure of Bacteriophage HK97 gp6: Defining a Large Family of Head-Tail Connector Proteins. <i>Journal of Molecular Biology</i> , 2010, 395, 754-768.	4.2	62
32	Phage Morons Play an Important Role in <i>Pseudomonas aeruginosa</i> Phenotypes. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	53
33	The moron comes of age. <i>Bacteriophage</i> , 2012, 2, e23146.	1.9	52
34	Phages Fight Back: Inactivation of the CRISPR-Cas Bacterial Immune System by Anti-CRISPR Proteins. <i>PLoS Pathogens</i> , 2016, 12, e1005282.	4.7	51
35	Inhibition of CRISPR-Cas9 ribonucleoprotein complex assembly by anti-CRISPR AcrIIc2. <i>Nature Communications</i> , 2019, 10, 2806.	12.8	50
36	The solution structure of an anti-CRISPR protein. <i>Nature Communications</i> , 2016, 7, 13134.	12.8	48

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37	The Solution Structure of the C-Terminal Ig-like Domain of the Bacteriophage λ Tail Tube Protein. <i>Journal of Molecular Biology</i> , 2010, 403, 468-479.	4.2	46
38	Baseplate assembly of phage Mu: Defining the conserved core components of contractile-tailed phages and related bacterial systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10174-10179.	7.1	46
39	The solution structure of bacteriophage λ protein W, a small morphogenetic protein possessing a novel fold ¹¹ Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 2001, 308, 9-14.	4.2	41
40	Refolding out of guanidine hydrochloride is an effective approach for high-throughput structural studies of small proteins. <i>Protein Science</i> , 2003, 12, 2073-2080.	7.6	39
41	Crystal Structure of Bacteriophage λ cII and Its DNA Complex. <i>Molecular Cell</i> , 2005, 19, 259-269.	9.7	39
42	The Solution Structure of the Bacteriophage λ Head-Tail Joining Protein, gpII. <i>Journal of Molecular Biology</i> , 2002, 318, 1395-1404.	4.2	38
43	Phages have adapted the same protein fold to fulfill multiple functions in virion assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14384-14389.	7.1	37
44	Rapid Detection of E. coli Bacteria Using Potassium-Sensitive FETs in CMOS. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013, 7, 621-630.	4.0	37
45	Efficacy of Bacteriophage Treatment on Pseudomonas aeruginosa Biofilms. <i>Journal of Endodontics</i> , 2013, 39, 364-369.	3.1	35
46	Anti-CRISPR AcrIIA5 Potently Inhibits All Cas9 Homologs Used for Genome Editing. <i>Cell Reports</i> , 2019, 29, 1739-1746.e5.	6.4	35
47	A Filamentous Bacteriophage Protein Inhibits Type IV Pili To Prevent Superinfection of Pseudomonas aeruginosa. <i>MBio</i> , 2022, 13, e0244121.	4.1	31
48	The protein gp74 from the bacteriophage HK97 functions as a HNH endonuclease. <i>Protein Science</i> , 2012, 21, 809-818.	7.6	30
49	The NMR Structure of the gpU Tail-terminator Protein from Bacteriophage Lambda: Identification of Sites Contributing to Mg(II)-mediated Oligomerization and Biological Function. <i>Journal of Molecular Biology</i> , 2007, 365, 175-186.	4.2	28
50	Rapid detection of E.Coli bacteria using potassium-sensitive FETs in CMOS. , 2012, , .		28
51	Tail Tip Proteins Related to Bacteriophage λ gpL Coordinate an Iron-Sulfur Cluster. <i>Journal of Molecular Biology</i> , 2013, 425, 2450-2462.	4.2	23
52	A Conserved Spiral Structure for Highly Diverged Phage Tail Assembly Chaperones. <i>Journal of Molecular Biology</i> , 2013, 425, 2436-2449.	4.2	20
53	Thermodynamic and Functional Characterization of Protein W from Bacteriophage λ . <i>Journal of Biological Chemistry</i> , 2000, 275, 18879-18886.	3.4	18
54	Structural and Functional Studies of gpX of Escherichia coli Phage P2 Reveal a Widespread Role for LysM Domains in the Baseplates of Contractile-Tailed Phages. <i>Journal of Bacteriology</i> , 2013, 195, 5461-5468.	2.2	18

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55	Extrachromosomal circular elements targeted by CRISPR-Cas in <i>Dehalococcoides mccartyi</i> are linked to mobilization of reductive dehalogenase genes. <i>ISME Journal</i> , 2019, 13, 24-38.	9.8	16
56	The Solution Structures of Two Prophage Homologues of the Bacteriophage ϕ Ea8.5 Protein Reveal a Newly Discovered Hybrid Homeodomain/Zinc-Finger Fold. <i>Biochemistry</i> , 2013, 52, 3612-3614.	2.5	14
57	Assembly mechanism is the key determinant of the dosage sensitivity of a phage structural protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10168-10173.	7.1	13
58	Anti-CRISPR AcrIE2 Binds the Type I-E CRISPR-Cas Complex But Does Not Block DNA Binding. <i>Journal of Molecular Biology</i> , 2021, 433, 166759.	4.2	11
59	Phages Tune in to Host Cell Quorum Sensing. <i>Cell</i> , 2019, 176, 7-8.	28.9	10
60	A Shifty Chaperone for Phage Tail Assembly. <i>Journal of Molecular Biology</i> , 2014, 426, 1001-1003.	4.2	9
61	Structural and Biochemical Characterization of Phage ϕ FI Protein (gpFI) Reveals a Novel Mechanism of DNA Packaging Chaperone Activity. <i>Journal of Biological Chemistry</i> , 2012, 287, 32085-32095.	3.4	8
62	Gold Nanoparticle Smartphone Platform for Diagnosing Urinary Tract Infections. <i>ACS Nanoscience Au</i> , 2022, 2, 324-332.	4.8	7
63	Structural and Mechanistic Insight into CRISPR-Cas9 Inhibition by Anti-CRISPR Protein AcrIIIC4. <i>Journal of Molecular Biology</i> , 2022, 434, 167420.	4.2	6
64	Retrons: Complementing CRISPR in Phage Defense. <i>CRISPR Journal</i> , 2020, 3, 226-227.	2.9	5
65	Bacterial twist to an antiviral defence. <i>Nature</i> , 2019, 574, 638-639.	27.8	3
66	HK97 gp74 Possesses an α -Helical Insertion in the β Fold That Affects Its Metal Binding, cos Site Digestion, and In Vivo Activities. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	3
67	Cyclic pyrimidines jump on the anti-phage bandwagon. <i>Cell</i> , 2021, 184, 5691-5693.	28.9	2
68	Type VI secretion system baseplate. <i>Nature Microbiology</i> , 2018, 3, 1330-1331.	13.3	1
69	One Anti-CRISPR to Rule Them All: Potent Inhibition of Cas9 Homologs Used for Genome Editing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
70	Crystal Structure of Bacteriophage ϕ cII and Its DNA Complex. <i>Molecular Cell</i> , 2005, 19, 578.	9.7	0