Craig E Cameron

List of Publications by Year
in descending order

101 papers	4,761 citations	126907 33 h-index	102487 66 g-index
115 all docs	115 docs citations	115 times ranked	5412 citing authors

#	Article	IF	Citations
1	The broad-spectrum antiviral ribonucleoside ribavirin is an RNA virus mutagen. Nature Medicine, 2000, 6, 1375-1379.	30.7	755
2	Viral Reorganization of the Secretory Pathway Generates Distinct Organelles for RNA Replication. Cell, 2010, 141, 799-811.	28.9	591
3	Mechanisms of action of ribavirin against distinct viruses. Reviews in Medical Virology, 2006, 16, 37-48.	8.3	428
4	A naturally occurring antiviral ribonucleotide encoded by the human genome. Nature, 2018, 558, 610-614.	27.8	225
5	Inhibition of dengue virus replication by mycophenolic acid and ribavirin. Journal of General Virology, 2006, 87, 1947-1952.	2.9	124
6	The mechanism of action of ribavirin: lethal mutagenesis of RNA virus genomes mediated by the viral RNA-dependent RNA polymerase. Current Opinion in Infectious Diseases, 2001, 14, 757-764.	3.1	121
7	Incorporation fidelity of the viral RNA-dependent RNA polymerase: a kinetic, thermodynamic and structural perspective. Virus Research, 2005, 107, 141-149.	2.2	121
8	Sensitivity of Mitochondrial Transcription and Resistance of RNA Polymerase II Dependent Nuclear Transcription to Antiviral Ribonucleosides. PLoS Pathogens, 2012, 8, e1003030.	4.7	119
9	RNA Virus Population Diversity, an Optimum for Maximal Fitness and Virulence. Journal of Biological Chemistry, 2014, 289, 29531-29544.	3.4	94
10	Core human mitochondrial transcription apparatus is a regulated two-component system in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12133-12138.	7.1	88
11	A speedâ€“fidelity trade-off determines the mutation rate and virulence of an RNA virus. PLoS Biology, 2018, 16, e2006459.	5.6	88
12	Molecular Dynamics Simulations of Viral RNA Polymerases Link Conserved and Correlated Motions of Functional Elements to Fidelity. Journal of Molecular Biology, 2011, 410, 159-181.	4.2	79
13	Structural and functional characterization of the coxsackievirus B3 CRE(2C): role of CRE(2C) in negative- and positive-strand RNA synthesis. Journal of General Virology, 2006, 87, 103-113.	2.9	78
14	Acoustofluidic bacteria separation. Journal of Micromechanics and Microengineering, 2017, 27, 015031.	2.6	77
15	Viperin Reveals Its True Function. Annual Review of Virology, 2020, 7, 421-446.	6.7	76
16	Structure-Function Relationships of the RNA-dependent RNA Polymerase from Poliovirus (3Dpol). Journal of Biological Chemistry, 2002, 277, 31551-31562.	3.4	72
17	Single-Cell Virology: On-Chip Investigation of Viral Infection Dynamics. Cell Reports, 2017, 21, 1692-1704.	6.4	71
18	Purification and characterization of hepatitis C virus non-structural protein 5A expressed in Escherichia coli. Protein Expression and Purification, 2004, 37, 144-153.	1.3	63

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19	Transcription from the second heavy-strand promoter of human mtDNA is repressed by transcription factor A in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6513-6518.	7.1	63
20	Signatures of Nucleotide Analog Incorporation by an RNA-Dependent RNA Polymerase Revealed Using High-Throughput Magnetic Tweezers. Cell Reports, 2017, 21, 1063-1076.	6.4	59
21	Picornavirus Genome Replication. Journal of Biological Chemistry, 2008, 283, 30677-30688.	3.4	58
22	Sequence-Specific Fidelity Alterations Associated with West Nile Virus Attenuation in Mosquitoes. PLoS Pathogens, 2015, 11, e1005009.	4.7	57
23	Proteinase-Polymerase Precursor as the Active Form of Feline Calicivirus RNA-Dependent RNA Polymerase. Journal of Virology, 2001, 75, 1211-1219.	3.4	55
24	The RNA Template Channel of the RNA-Dependent RNA Polymerase as a Target for Development of Antiviral Therapy of Multiple Genera within a Virus Family. PLoS Pathogens, 2015, 11, e1004733.	4.7	55
25	Inhibition of SARS-CoV-2 polymerase by nucleotide analogs from a single-molecule perspective. ELife, 2021, 10, .	6.0	53
26	Cytoplasmic Viral RNA-Dependent RNA Polymerase Disrupts the Intracellular Splicing Machinery by Entering the Nucleus and Interfering with Prp8. PLoS Pathogens, 2014, 10, e1004199.	4.7	50
27	Dynamics: the missing link between structure and function of the viral RNA-dependent RNA polymerase?. Current Opinion in Structural Biology, 2009, 19, 768-774.	5.7	45
28	Electrochemically created highly surface roughened Ag nanoplate arrays for SERS biosensing applications. Journal of Materials Chemistry C, 2014, 2, 8350-8356.	5.5	43
29	Synthesis and Antiviral Activity of 5-Substituted Cytidine Analogues:â€‰ Identification of a Potent Inhibitor of Viral RNA-Dependent RNA Polymerases. Journal of Medicinal Chemistry, 2006, 49, 6166-6169.	6.4	42
30	Hijacking of multiple phospholipid biosynthetic pathways and induction of membrane biogenesis by a picornaviral 3CD protein. PLoS Pathogens, 2018, 14, e1007086.	4.7	40
31	Insight into Poliovirus Genome Replication and Encapsidation Obtained from Studies of 3B-3C Cleavage Site Mutants. Journal of Virology, 2009, 83, 9370-9387.	3.4	38
32	Identification of Multiple Rate-limiting Steps during the Human Mitochondrial Transcription Cycle in Vitro. Journal of Biological Chemistry, 2010, 285, 16387-16402.	3.4	38
33	Accurate nanoscale flexibility measurement of DNA and DNAâ€"protein complexes by atomic force microscopy in liquid. Nanoscale, 2017, 9, 11327-11337.	5.6	36
34	Expanding knowledge of P3 proteins in the poliovirus lifecycle. Future Microbiology, 2010, 5, 867-881.	2.0	35
35	Vaccine-derived Mutation in Motif D of Poliovirus RNA-dependent RNA Polymerase Lowers Nucleotide Incorporation Fidelity. Journal of Biological Chemistry, 2013, 288, 32753-32765.	3.4	35
36	Small ubiquitin-like modifying protein isopeptidase assay based on poliovirus RNA polymerase activity. Analytical Biochemistry, 2006, 350, 214-221.	2.4	33

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37	Senecavirus-Specific Recombination Assays Reveal the Intimate Link between Polymerase Fidelity and RNA Recombination. Journal of Virology, 2019, 93, .	3.4	32
38	Predicting Intraserotypic Recombination in Enterovirus 71. Journal of Virology, 2019, 93, .	3.4	32
39	Structural Dynamics as a Contributor to Error-prone Replication by an RNA-dependent RNA Polymerase. Journal of Biological Chemistry, 2014, 289, 36229-36248.	3.4	31
40	Unexpected sequences and structures of mtDNA required for efficient transcription from the first heavy-strand promoter. ELife, 2017, 6, .	6.0	31
41	Multi-focal control of mitochondrial gene expression by oncogenic MYC provides potential therapeutic targets in cancer. Oncotarget, 2016, 7, 72395-72414.	1.8	30
42	Lethal mutagens: broad-spectrum antivirals with limited potential for development of resistance?. Drug Resistance Updates, 2004, 7, 19-24.	14.4	27
43	Temperature controlled high-throughput magnetic tweezers show striking difference in activation energies of replicating viral RNA-dependent RNA polymerases. Nucleic Acids Research, 2020, 48, 5591-5602.	14.5	27
44	Stimulation of Poliovirus Synthesis in a HeLa Cell-Free In Vitro Translation-RNA Replication System by Viral Protein 3CD pro. Journal of Virology, 2005, 79, 6358-6367.	3.4	23
45	Stimulation of poliovirus RNA synthesis and virus maturation in a HeLa cell-free in vitro translation-RNA replication system by viral protein 3CDpro. Virology Journal, 2005, 2, 86.	3.4	23
46	Structure-Function Analysis of Vaccinia Virus H7 Protein Reveals a Novel Phosphoinositide Binding Fold Essential for Poxvirus Replication. Journal of Virology, 2015, 89, 2209-2219.	3.4	23
47	Mutagen resistance and mutation restriction of St. Louis encephalitis virus. Journal of General Virology, 2017, 98, 201-211.	2.9	22
48	The RNA-Binding Site of Poliovirus 3C Protein Doubles as a Phosphoinositide-Binding Domain. Structure, 2017, 25, 1875-1886.e7.	3.3	20
49	Multiple poliovirus-induced organelles suggested by comparison of spatiotemporal dynamics of membranous structures and phosphoinositides. PLoS Pathogens, 2018, 14, e1007036.	4.7	19
50	Expanding the Proteome of an RNA Virus by Phosphorylation of an Intrinsically Disordered Viral Protein. Journal of Biological Chemistry, 2014, 289, 24397-24416.	3.4	18
51	The nucleotide addition cycle of the SARS-CoV-2 polymerase. Cell Reports, 2021, 36, 109650.	6.4	18
52	Melting of Duplex DNA in the Absence of ATP by the NS3 Helicase Domain through Specific Interaction with a Single-Strand/Double-Strand Junction. Biochemistry, 2015, 54, 4248-4258.	2.5	16
53	Triphosphate Reorientation of the Incoming Nucleotide as a Fidelity Checkpoint in Viral RNA-dependent RNA Polymerases. Journal of Biological Chemistry, 2017, 292, 3810-3826.	3.4	16
54	UGGT1 enhances enterovirus 71 pathogenicity by promoting viral RNA synthesis and viral replication. PLoS Pathogens, 2017, 13, e1006375.	4.7	16

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55	More than efficacy revealed by single-cell analysis of antiviral therapeutics. Science Advances, 2019, 5, eaax4761.	10.3	16
56	Foot-and-mouth disease virus type O specific mutations determine RNA-dependent RNA polymerase fidelity and virus attenuation. Virology, 2018, 518, 87-94.	2.4	15
57	Discovery of Enterovirus A71-like nonstructural genomes in recent circulating viruses of the <i>Enterovirus A</i> species. Emerging Microbes and Infections, 2018, 7, 1-14.	6.5	14
58	Rational Control of Poliovirus RNA-Dependent RNA Polymerase Fidelity by Modulating Motif-D Loop Conformational Dynamics. Biochemistry, 2019, 58, 3735-3743.	2.5	14
59	Conformational Ensemble of the Poliovirus 3CD Precursor Observed by MD Simulations and Confirmed by SAXS: A Strategy to Expand the Viral Proteome?. Viruses, 2015, 7, 5962-5986.	3.3	13
60	2â€²-C-methylated nucleotides terminate virus RNA synthesis by preventing active site closure of the viral RNA-dependent RNA polymerase. Journal of Biological Chemistry, 2019, 294, 16897-16907.	3.4	12
61	RNA-Dependent RNA Polymerase Speed and Fidelity are not the Only Determinants of the Mechanism or Efficiency of Recombination. Genes, 2019, 10, 968.	2.4	11
62	Long-Range Communication between Different Functional Sites in the Picornaviral 3C Protein. Structure, 2016, 24, 509-517.	3.3	10
63	Induced intra- and intermolecular template switching as a therapeutic mechanism against RNA viruses. Molecular Cell, 2021, 81, 4467-4480.e7.	9.7	10
64	The hepatitis C viral nonstructural protein 5A stabilizes growth-regulatory human transcripts. Nucleic Acids Research, 2018, 46, 2537-2547.	14.5	8
65	Polymerase Mechanism-Based Method of Viral Attenuation. Methods in Molecular Biology, 2016, 1349, 83-104.	0.9	8
66	Poliovirus RNA-Dependent RNA Polymerase (3Dpol): Structure, Function, and Mechanism. , 0, , 255-267.		8
67	The ZCCHC14/TENT4 complex is required for hepatitis A virus RNA synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8
68	Cystoviral Polymerase Complex Protein P7 Uses Its Acidic C-Terminal Tail to Regulate the RNA-Directed RNA Polymerase P2. Journal of Molecular Biology, 2014, 426, 2580-2593.	4.2	7
69	Robust genome and RNA editing via CRISPR nucleases in PiggyBac systems. Bioactive Materials, 2022, 14, 313-320.	15.6	7
70	PIP-on-a-chip: A Label-free Study of Protein-phosphoinositide Interactions. Journal of Visualized Experiments, 2017, , .	0.3	6
71	A Chemical Strategy for Intracellular Arming of an Endogenous Broad-Spectrum Antiviral Nucleotide. Journal of Medicinal Chemistry, 2021, 64, 15429-15439.	6.4	6
72	Structural models of mammalian mitochondrial transcription factor B2. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 987-1002.	1.9	5

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73	Nucleobase but not Sugar Fidelity is Maintained in the Sabin I RNA-Dependent RNA Polymerase. Viruses, 2015, 7, 5571-5586.	3.3	4
74	Polymerase Fidelity Contributes to Foot-and-Mouth Disease Virus Pathogenicity and Transmissibility <i>In Vivo</i>. Journal of Virology, 2020, 95, .	3.4	4
75	The ASM Journals Committee Values the Contributions of Black Microbiologists. MBio, 2020, 11, .	4.1	3
76	Modeling poliovirus replication dynamics from live time-lapse single-cell imaging data. Scientific Reports, 2021, 11, 9622.	3.3	3
77	Computational Analysis of Amiloride Analogue Inhibitors of Coxsackie Virus B3 RNA Polymerase. Journal of Proteomics and Bioinformatics, 2014, s9, 004.	0.4	2
78	The ASM Journals Committee Values the Contributions of Black Microbiologists. Journal of Microbiology and Biology Education, 2020, 21, .	1.0	2
79	Lethal Mutagenesis: Exploiting Error-Prone Replication of Riboviruses for Antiviral Therapy. , 2005, , 203-220.		1
80	The ASM Journals Committee Values the Contributions of Black Microbiologists. Journal of Clinical Microbiology, 2020, 58, .	3.9	1
81	Characterization of Proteinâ€"Phospholipid/Membrane Interactions Using a â€œMembrane-on-a-Chipâ€• Microfluidic System. Methods in Molecular Biology, 2021, 2251, 143-156.	0.9	1
82	The ASM Journals Committee Values the Contributions of Black Microbiologists. Applied and Environmental Microbiology, 2020, 86, .	3.1	1
83	The ASM Journals Committee Values the Contributions of Black Microbiologists. MSphere, 2020, 5, .	2.9	1
84	Expression and Purification of Mitochondrial RNA Polymerase and Transcription Factor A from Drosophila melanogaster. Methods in Molecular Biology, 2016, 1351, 199-210.	0.9	1
85	The Stem-Loop I of Senecavirus A IRES Is Essential for Cap-Independent Translation Activity and Virus Recovery. Viruses, 2021, 13, 2159.	3.3	1
86	The ASM Journals Committee Values the Contributions of Black Microbiologists. Clinical Microbiology Reviews, 2020, 33, .	13.6	1
87	The ASM Journals Committee Values the Contributions of Black Microbiologists. Infection and Immunity, 2020, 88, .	2.2	0
88	The ASM Journals Committee Values the Contributions of Black Microbiologists. Microbiology Spectrum, 2020, 8, .	3.0	0
89	The ASM Journals Committee Values the Contributions of Black Microbiologists. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	0
90	The ASM Journals Committee Values the Contributions of Black Microbiologists. Journal of Virology, 2020, 94, .	3.4	0

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91	The ASM Journals Committee Values the Contributions of Black Microbiologists. Journal of Bacteriology, 2020, 202, .	2.2	0
92	The ASM Journals Committee Values the Contributions of Black Microbiologists. Microbiology and Molecular Biology Reviews, 2020, 84, .	6.6	0
93	The ASM Journals Committee Values the Contributions of Black Microbiologists. MSystems, 2020, 5, .	3.8	0
94	The ASM Journals Committee Values the Contributions of Black Microbiologists. Microbiology Resource Announcements, 2020, 9, .	0.6	0
95	ATPâ€ĐNA conjugates as potential helicase inhibitors. FASEB Journal, 2006, 20, LB51.	0.5	0
96	A general acid in polymerase catalyzed phosphoryl transfer reactions?. FASEB Journal, 2006, 20, .	0.5	0
97	What is the relationship between polymerase nuclotide incorporation rate and fidelity?. FASEB Journal, 2007, 21, A1014.	0.5	0
98	A Universal Strategy for Virus Attenuation. FASEB Journal, 2008, 22, 413.3.	0.5	0
99	Domain II of the HCV IRES is a potent activator of PKR. FASEB Journal, 2010, 24, 653.5.	0.5	0
100	The ASM Journals Committee Values the Contributions of Black Microbiologists. Molecular and Cellular Biology, 2020, 40, .	2.3	0
101	Single-cell analysis for the study of viral inhibitors. The Enzymes, 2021, 49, 195-213.	1.7	0