

Dennis Bamford

List of Publications by Year in descending order

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88
papers

5,441
citations

87888

38
h-index

85541

71
g-index

89
all docs

89
docs citations

89
times ranked

3328
citing authors

#	ARTICLE	IF	CITATIONS
1	A mechanism for initiating RNA-dependent RNA polymerization. <i>Nature</i> , 2001, 410, 235-240.	27.8	458
2	What does structure tell us about virus evolution?. <i>Current Opinion in Structural Biology</i> , 2005, 15, 655-663.	5.7	348
3	Viral Evolution Revealed by Bacteriophage PRD1 and Human Adenovirus Coat Protein Structures. <i>Cell</i> , 1999, 98, 825-833.	28.9	275
4	Structure Unifies the Viral Universe. <i>Annual Review of Biochemistry</i> , 2012, 81, 795-822.	11.1	252
5	Insights into assembly from structural analysis of bacteriophage PRD1. <i>Nature</i> , 2004, 432, 68-74.	27.8	246
6	Do viruses form lineages across different domains of life?. <i>Research in Microbiology</i> , 2003, 154, 231-236.	2.1	179
7	The enigmatic archaeal virosphere. <i>Nature Reviews Microbiology</i> , 2017, 15, 724-739.	28.6	169
8	Evolution of Viral Structure. <i>Theoretical Population Biology</i> , 2002, 61, 461-470.	1.1	147
9	Global network of specific virus-host interactions in hypersaline environments. <i>Environmental Microbiology</i> , 2012, 14, 426-440.	3.8	147
10	An ssDNA virus infecting archaea: a new lineage of viruses with a membrane envelope. <i>Molecular Microbiology</i> , 2009, 72, 307-319.	2.5	135
11	Quantitation of the adsorption and penetration stages of bacteriophage ϕ 6 infection. <i>Virology</i> , 1989, 171, 229-238.	2.4	133
12	Membrane structure and interactions with protein and DNA in bacteriophage PRD1. <i>Nature</i> , 2004, 432, 122-125.	27.8	133
13	SH1: A novel, spherical halovirus isolated from an Australian hypersaline lake. <i>Virology</i> , 2005, 335, 22-33.	2.4	116
14	Insights into Virus Evolution and Membrane Biogenesis from the Structure of the Marine Lipid-Containing Bacteriophage PM2. <i>Molecular Cell</i> , 2008, 31, 749-761.	9.7	116
15	Local Average Intensity-Based Method for Identifying Spherical Particles in Electron Micrographs. <i>Journal of Structural Biology</i> , 2000, 131, 126-134.	2.8	101
16	Constituents of SH1, a Novel Lipid-Containing Virus Infecting the Halophilic Euryarchaeon <i>Haloarcula hispanica</i> . <i>Journal of Virology</i> , 2005, 79, 9097-9107.	3.4	96
17	Membrane fusion in prokaryotes: bacteriophage phi 6 membrane fuses with the <i>Pseudomonas syringae</i> outer membrane.. <i>EMBO Journal</i> , 1987, 6, 1467-1473.	7.8	95
18	Archaeal viruses and bacteriophages: comparisons and contrasts. <i>Trends in Microbiology</i> , 2014, 22, 334-344.	7.7	91

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19	Capsomer proteins of bacteriophage PRD1, a bacterial virus with a membrane. <i>Virology</i> , 1990, 177, 445-451.	2.4	85
20	Minor proteins, mobile arms and membrane-capsid interactions in the bacteriophage PRD1 capsid. <i>Nature Structural Biology</i> , 2002, 9, 756-763.	9.7	80
21	Structure and host-cell interaction of SH1, a membrane-containing, halophilic euryarchaeal virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8008-8013.	7.1	78
22	Virion Architecture Unifies Globally Distributed Pleolipoviruses Infecting Halophilic Archaea. <i>Journal of Virology</i> , 2012, 86, 5067-5079.	3.4	78
23	Mechanism of Membranous Tunnelling Nanotube Formation in Viral Genome Delivery. <i>PLoS Biology</i> , 2013, 11, e1001667.	5.6	75
24	Elongation-Competent Pauses Govern the Fidelity of a Viral RNA-Dependent RNA Polymerase. <i>Cell Reports</i> , 2015, 10, 983-992.	6.4	72
25	Combined EM/X-Ray Imaging Yields a Quasi-Atomic Model of the Adenovirus-Related Bacteriophage PRD1 and Shows Key Capsid and Membrane Interactions. <i>Structure</i> , 2001, 9, 917-930.	3.3	69
26	The Single-Stranded DNA Genome of Novel Archaeal Virus <i>Halorubrum</i> Pleomorphic Virus 1 Is Enclosed in the Envelope Decorated with Glycoprotein Spikes. <i>Journal of Virology</i> , 2010, 84, 788-798.	3.4	66
27	Insights into Head-Tailed Viruses Infecting Extremely Halophilic Archaea. <i>Journal of Virology</i> , 2013, 87, 3248-3260.	3.4	57
28	Regulation of kynurenine biosynthesis during influenza virus infection. <i>FEBS Journal</i> , 2017, 284, 222-236.	4.7	56
29	<i>Sulfolobus</i> Spindle-Shaped Virus 1 Contains Glycosylated Capsid Proteins, a Cellular Chromatin Protein, and Host-Derived Lipids. <i>Journal of Virology</i> , 2015, 89, 11681-11691.	3.4	54
30	Large-scale purification of membrane-containing bacteriophage PRD1 and its subviral particles and its subviral particles. <i>Virology</i> , 1991, 181, 348-352.	2.4	52
31	Membrane fusion in prokaryotes: bacteriophage phi 6 membrane fuses with the <i>Pseudomonas syringae</i> outer membrane. <i>EMBO Journal</i> , 1987, 6, 1467-73.	7.8	51
32	Buried Alive: Microbes from Ancient Halite. <i>Trends in Microbiology</i> , 2016, 24, 148-160.	7.7	50
33	Closely Related Archaeal Haloarcula hispanica Icosahedral Viruses HHIV-2 and SH1 Have Nonhomologous Genes Encoding Host Recognition Functions. <i>Journal of Virology</i> , 2012, 86, 4734-4742.	3.4	48
34	The Receptor Binding Protein P2 of PRD1, a Virus Targeting Antibiotic-Resistant Bacteria, Has a Novel Fold Suggesting Multiple Functions. <i>Structure</i> , 2003, 11, 309-322.	3.3	46
35	Biochemical and structural characterisation of membrane-containing icosahedral dsDNA bacteriophages infecting thermophilic <i>Thermus thermophilus</i> . <i>Virology</i> , 2008, 379, 10-19.	2.4	44
36	Lemon-shaped halo archaeal virus His1 with uniform tail but variable capsid structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2449-2454.	7.1	43

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37	Diversity in prokaryotic glycosylation: an archaeal-derived N-linked glycan contains legionaminic acid. <i>Molecular Microbiology</i> , 2012, 84, 578-593.	2.5	42
38	Assembly of Bacteriophage PRD1 Spike Complex: A Role of the Multidomain Protein P5. <i>Biochemistry</i> , 2000, 39, 10566-10573.	2.5	41
39	A Structural Model of the Genome Packaging Process in a Membrane-Containing Double Stranded DNA Virus. <i>PLoS Biology</i> , 2014, 12, e1002024.	5.6	41
40	Pleolipoviridae, a newly proposed family comprising archaeal pleomorphic viruses with single-stranded or double-stranded DNA genomes. <i>Archives of Virology</i> , 2016, 161, 249-256.	2.1	41
41	RNA secondary structures of the bacteriophage ϕ 6 packaging regions. <i>Rna</i> , 2000, 6, 880-889.	3.5	38
42	The structure of a prokaryotic viral envelope protein expands the landscape of membrane fusion proteins. <i>Nature Communications</i> , 2019, 10, 846.	12.8	37
43	Quantitative dissociation of archaeal virus SH1 reveals distinct capsid proteins and a lipid core. <i>Virology</i> , 2006, 356, 4-11.	2.4	36
44	Identification and characterization of <i>scp>SNJ</sc></i> 2, the first temperate pleolipovirus integrating into the genome of the <i>scp>SNJ</sc></i> 1 lysogenic archaeal strain. <i>Molecular Microbiology</i> , 2015, 98, 1002-1020.	2.5	36
45	Halophilic Archaea Cultivated from Surface Sterilized Middle-Late Eocene Rock Salt Are Polyploid. <i>PLoS ONE</i> , 2014, 9, e110533.	2.5	34
46	Haloviruses of archaea, bacteria, and eukaryotes. <i>Current Opinion in Microbiology</i> , 2015, 25, 40-48.	5.1	33
47	Archaeal Viruses Multiply: Temporal Screening in a Solar Saltern. <i>Viruses</i> , 2015, 7, 1902-1926.	3.3	32
48	The complete genome of a viable archaeum isolated from 123 million-year-old rock salt. <i>Environmental Microbiology</i> , 2016, 18, 565-579.	3.8	31
49	Structural Basis of Mechanochemical Coupling in a Hexameric Molecular Motor. <i>Journal of Biological Chemistry</i> , 2008, 283, 3607-3617.	3.4	30
50	Insight into the Assembly of Viruses with Vertical Single β -barrel Major Capsid Proteins. <i>Structure</i> , 2015, 23, 1866-1877.	3.3	29
51	Back-priming mode of ϕ 6 RNA-dependent RNA polymerase. <i>Journal of General Virology</i> , 2005, 86, 521-526.	2.9	28
52	Novel haloarchaeal viruses from Lake Retba infecting <i>Haloferax</i> and <i>Halorubrum</i> species. <i>Environmental Microbiology</i> , 2019, 21, 2129-2147.	3.8	28
53	Nucleic and Amino Acid Sequences Support Structure-Based Viral Classification. <i>Journal of Virology</i> , 2017, 91, .	3.4	27
54	Isolation of a Phospholipid-Free Protein Shell of Bacteriophage PRD1, an Escherichia coli Virus with an Internal Membrane. <i>Virology</i> , 1993, 194, 564-569.	2.4	26

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55	Comparison of Lipid-Containing Bacterial and Archaeal Viruses. <i>Advances in Virus Research</i> , 2015, 92, 1-61.	2.1	25
56	Haloarchaeal virus morphotypes. <i>Biochimie</i> , 2015, 118, 333-343.	2.6	25
57	Structural basis for assembly of vertical single β -barrel viruses. <i>Nature Communications</i> , 2019, 10, 1184.	12.8	25
58	Gene XV of Bacteriophage PRD1 Encodes a Lytic Enzyme with Muramidase Activity. <i>FEBS Journal</i> , 1994, 225, 341-346.	0.2	24
59	HCV-1 and Other Tailless Icosahedral Internal Membrane-Containing Viruses of the Family Sphaerolipoviridae. <i>Viruses</i> , 2017, 9, 32.	3.3	24
60	Asymmetric flow field flow fractionation methods for virus purification. <i>Journal of Chromatography A</i> , 2016, 1469, 108-119.	3.7	23
61	K2 killer toxin-induced physiological changes in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2016, 16, fow003.	2.3	23
62	MAP kinase p38 β regulates type III interferon ($\text{IFN-}\beta$) gene expression in human monocyte-derived dendritic cells in response to RNA stimulation. <i>Journal of Leukocyte Biology</i> , 2015, 97, 307-320.	3.3	22
63	Primer-independent RNA sequencing with bacteriophage ϕ 6 RNA polymerase and chain terminators. <i>Rna</i> , 2001, 7, 774-781.	3.5	21
64	Virus-host interplay in high salt environments. <i>Environmental Microbiology Reports</i> , 2016, 8, 431-444.	2.4	21
65	ICTV Virus Taxonomy Profile: Pleolipoviridae. <i>Journal of General Virology</i> , 2017, 98, 2916-2917.	2.9	19
66	Packaging and replication regulation revealed by chimeric genome segments of double-stranded RNA bacteriophage ϕ 6. <i>Rna</i> , 1999, 5, 446-454.	3.5	18
67	Vesicle-like virion of <i>Haloarcula hispanica</i> pleomorphic virus 3 preserves high infectivity in saturated salt. <i>Virology</i> , 2016, 499, 40-51.	2.4	18
68	Innate responses to small interfering RNA pools inhibiting herpes simplex virus infection in astrocytoid and epithelial cells. <i>Innate Immunity</i> , 2015, 21, 349-357.	2.4	17
69	Assembly of complex viruses exemplified by a halophilic euryarchaeal virus. <i>Nature Communications</i> , 2019, 10, 1456.	12.8	17
70	What Does it Take to Make a Virus: The Concept of the Viral 'Self'. , 2010, , 35-58.		17
71	Monitoring Physiological Changes in Haloarchaeal Cell during Virus Release. <i>Viruses</i> , 2016, 8, 59.	3.3	16
72	Archaeal <i>Haloarcula californica</i> Icosahedral Virus 1 Highlights Conserved Elements in Icosahedral Membrane-Containing DNA Viruses from Extreme Environments. <i>MBio</i> , 2016, 7, .	4.1	16

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73	Immuno-modulating properties of saliphenylhalamide, SNS-032, obatoclox, and gemcitabine. <i>Antiviral Research</i> , 2016, 126, 69-80.	4.1	16
74	Integral Membrane Protein P16 of Bacteriophage PRD1 Stabilizes the Adsorption Vertex Structure. <i>Journal of Virology</i> , 2004, 78, 9790-9797.	3.4	15
75	Membrane-assisted viral DNA ejection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 664-672.	2.4	15
76	Extremely halophilic pleomorphic archaeal virus HRPV9 extends the diversity of pleolipoviruses with integrases. <i>Research in Microbiology</i> , 2018, 169, 500-504.	2.1	13
77	Membrane-containing virus particles exhibit the mechanics of a composite material for genome protection. <i>Nanoscale</i> , 2018, 10, 7769-7779.	5.6	12
78	Purification and characterization of the assembly factor P17 of the lipid-containing bacteriophage PRD1. <i>FEBS Journal</i> , 1999, 260, 549-558.	0.2	11
79	Use of lipophilic anions for estimation of biomass and cell viability. <i>Biotechnology and Bioengineering</i> , 2000, 71, 208-216.	3.3	11
80	The Unexplored Diversity of Pleolipoviruses: The Surprising Case of Two Viruses with Identical Major Structural Modules. <i>Genes</i> , 2018, 9, 131.	2.4	8
81	Bacterial diversity at surface water in three locations within the Baltic sea as revealed by culture-dependent molecular techniques. <i>Journal of Basic Microbiology</i> , 1996, 36, 163-176.	3.3	7
82	Temperature and pH dependence of DNA ejection from archaeal lemon-shaped virus His1. <i>European Biophysics Journal</i> , 2016, 45, 435-442.	2.2	4
83	Self-organization: making complex infectious viral particles from purified precursors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 1187-1203.	3.4	2
84	Virion Architecture Unifies Globally Distributed Pleolipoviruses Infecting Halophilic Archaea. <i>Journal of Virology</i> , 2012, 86, 6384-6384.	3.4	2
85	Electrostatic Interactions Drive the Self-Assembly and the Transcription Activity of the Pseudomonas Phage ϕ 6 Procapsid. <i>Journal of Virology</i> , 2014, 88, 7112-7116.	3.4	2
86	Inline-tandem purification of viruses from cell lysate by agarose-based chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022, 1192, 123140.	2.3	1
87	Bacteriophage PRD1 Capsid Structure: Iterative Combination of Threedimensional Electron Microscopy and X-Ray Crystallography. <i>Microscopy and Microanalysis</i> , 2000, 6, 284-285.	0.4	0
88	Seeing the Portal in Membrane-containing Bacteriophage PRD1 by Cryo-EM. <i>Microscopy and Microanalysis</i> , 2014, 20, 1250-1251.	0.4	0