

Alasdair C Steven

List of Publications by Year in descending order

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89
papers

5,454
citations

87888

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85541

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92
docs citations

92
times ranked

5180
citing authors

#	ARTICLE	IF	CITATIONS
1	Encapsidated Conformation of Bacteriophage T7 DNA. <i>Cell</i> , 1997, 91, 271-280.	28.9	340
2	One number does not fit all: Mapping local variations in resolution in cryo-EM reconstructions. <i>Journal of Structural Biology</i> , 2013, 184, 226-236.	2.8	340
3	A novel class of herpesvirus with bivalve hosts. <i>Journal of General Virology</i> , 2005, 86, 41-53.	2.9	260
4	A new resolution criterion based on spectral signal-to-noise ratios. <i>Ultramicroscopy</i> , 1987, 23, 39-51.	1.9	238
5	The herpes simplex virus procapsid: structure, conformational changes upon maturation, and roles of the triplex proteins VP19c and VP23 in assembly. <i>Journal of Molecular Biology</i> , 1996, 263, 447-462.	4.2	236
6	Assembly of the Herpes Simplex Virus Capsid: Characterization of Intermediates Observed During Cell-free Capsid Formation. <i>Journal of Molecular Biology</i> , 1996, 263, 432-446.	4.2	231
7	Hepatitis Core Antigen Produced in <i>Escherichia coli</i> : Subunit Composition, Conformation Analysis, and in Vitro Capsid Assembly. <i>Biochemistry</i> , 1995, 34, 4919-4932.	2.5	225
8	Beta-helix model for the filamentous haemagglutinin adhesin of <i>Bordetella pertussis</i> and related bacterial secretory proteins. <i>Molecular Microbiology</i> , 2001, 42, 279-292.	2.5	163
9	Virus maturation: dynamics and mechanism of a stabilizing structural transition that leads to infectivity. <i>Current Opinion in Structural Biology</i> , 2005, 15, 227-236.	5.7	160
10	Structure and Polymorphism of the UL6 Portal Protein of Herpes Simplex Virus Type 1. <i>Journal of Virology</i> , 2004, 78, 12668-12671.	3.4	159
11	Dynamics of herpes simplex virus capsid maturation visualized by time-lapse cryo-electron microscopy. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 334-341.	8.2	158
12	A virus capsid-like nanocompartment that stores iron and protects bacteria from oxidative stress. <i>EMBO Journal</i> , 2014, 33, 1896-1911.	7.8	153
13	Allosteric Signaling and a Nuclear Exit Strategy: Binding of UL25/UL17 Heterodimers to DNA-Filled HSV-1 Capsids. <i>Molecular Cell</i> , 2007, 26, 479-489.	9.7	149
14	Novel fold and capsid-binding properties of the lambda-phage display platform protein gpD. <i>Nature Structural Biology</i> , 2000, 7, 230-237.	9.7	140
15	Computational resources for cryo-electron tomography in Bsoft. <i>Journal of Structural Biology</i> , 2008, 161, 232-242.	2.8	128
16	Isolation of Herpes Simplex Virus Procapsids from Cells Infected with a Protease-Deficient Mutant Virus. <i>Journal of Virology</i> , 2000, 74, 1663-1673.	3.4	115
17	Assembly of the Herpes Simplex Virus Procapsid from Purified Components and Identification of Small Complexes Containing the Major Capsid and Scaffolding Proteins. <i>Journal of Virology</i> , 1999, 73, 4239-4250.	3.4	111
18	Structural Changes in Influenza Virus at Low pH Characterized by Cryo-Electron Tomography. <i>Journal of Virology</i> , 2012, 86, 2919-2929.	3.4	109

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19	Visualization of the herpes simplex virus portal in situ by cryo-electron tomography. <i>Virology</i> , 2007, 361, 426-434.	2.4	107
20	Six-fold rotational symmetry of ClpQ, the <i>E. coli</i> homolog of the 20S proteasome, and its ATP-dependent activator, ClpY. <i>FEBS Letters</i> , 1996, 398, 274-278.	2.8	105
21	Stability and Shape of Hepatitis B Virus Capsids In Vacuo. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6247-6251.	13.8	101
22	Distribution and Redistribution of HIV-1 Nucleocapsid Protein in Immature, Mature, and Integrase-Inhibited Virions: a Role for Integrase in Maturation. <i>Journal of Virology</i> , 2015, 89, 9765-9780.	3.4	91
23	Capsid Structure of Simian Cytomegalovirus from Cryoelectron Microscopy: Evidence for Tegument Attachment Sites. <i>Journal of Virology</i> , 1999, 73, 2181-2192.	3.4	86
24	Structure, Assembly, and Antigenicity of Hepatitis B Virus Capsid Proteins. <i>Advances in Virus Research</i> , 2005, 64, 125-164.	2.1	83
25	Prion Filament Networks in [Ure3] Cells of <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Biology</i> , 2001, 153, 1327-1336.	5.2	79
26	Decoration of the microtubule surface by one kinesin head per tubulin heterodimer. <i>Nature</i> , 1993, 362, 73-75.	27.8	78
27	The next ice age: cryo-electron tomography of intact cells. <i>Trends in Cell Biology</i> , 2003, 13, 107-110.	7.9	72
28	Procapsid Assembly, Maturation, Nuclear Exit: Dynamic Steps in the Production of Infectious Herpesvirions. <i>Advances in Experimental Medicine and Biology</i> , 2012, 726, 423-439.	1.6	68
29	Maturation of the Human Papillomavirus 16 Capsid. <i>MBio</i> , 2014, 5, e01104-14.	4.1	64
30	Bubblegrams Reveal the Inner Body of Bacteriophage ϕ KZ. <i>Science</i> , 2012, 335, 182-182.	12.6	63
31	Structural Basis of hAT Transposon End Recognition by Hermes, an Octameric DNA Transposase from <i>Musca domestica</i> . <i>Cell</i> , 2014, 158, 353-367.	28.9	63
32	Antigenic Switching of Hepatitis B Virus by Alternative Dimerization of the Capsid Protein. <i>Structure</i> , 2013, 21, 133-142.	3.3	61
33	Cryo-EM structure and in vitro DNA packaging of a thermophilic virus with supersized T=7 capsids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3556-3561.	7.1	54
34	Structure and Energetics of Encapsidated DNA in Bacteriophage HK97 Studied by Scanning Calorimetry and Cryo-electron Microscopy. <i>Journal of Molecular Biology</i> , 2009, 391, 471-483.	4.2	52
35	A Second Symmetry Mismatch at the Portal Vertex of Bacteriophage T7: 8-fold Symmetry in the Procapsid Core. <i>Journal of Molecular Biology</i> , 2003, 327, 1-6.	4.2	49
36	Paired octamer rings of retinoschisin suggest a junctional model for cell-cell adhesion in the retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5287-5292.	7.1	49

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37	Î±-Synuclein Amyloid Fibrils with Two Entwined, Asymmetrically Associated Protofibrils. <i>Journal of Biological Chemistry</i> , 2016, 291, 2310-2318.	3.4	48
38	The Primary Enveloped Virion of Herpes Simplex Virus 1: Its Role in Nuclear Egress. <i>MBio</i> , 2017, 8, .	4.1	44
39	Distribution of DNA-condensing protein complexes in the adenovirus core. <i>Nucleic Acids Research</i> , 2015, 43, 4274-4283.	14.5	41
40	Influenza virus-mediated membrane fusion: Structural insights from electron microscopy. <i>Archives of Biochemistry and Biophysics</i> , 2015, 581, 86-97.	3.0	36
41	Lce1 Family Members Are Nrf2-Target Genes that Are Induced to Compensate for the Loss of Loricrin. <i>Journal of Investigative Dermatology</i> , 2016, 136, 1656-1663.	0.7	32
42	BIOCHEMISTRY: Viral Glycoproteins and an Evolutionary Conundrum. <i>Science</i> , 2006, 313, 177-178.	12.6	31
43	Identification of an HIV-1 Mutation in Spacer Peptide 1 That Stabilizes the Immature CA-SP1 Lattice. <i>Journal of Virology</i> , 2016, 90, 972-978.	3.4	31
44	Subassemblies and Asymmetry in Assembly of Herpes Simplex Virus Procapsid. <i>MBio</i> , 2015, 6, e01525-15.	4.1	28
45	Localization of the Houdinisome (Ejection Proteins) inside the Bacteriophage P22 Virion by Bubblegram Imaging. <i>MBio</i> , 2016, 7, .	4.1	27
46	Molecular architecture of bacteriophage T7 capsid. <i>Virology</i> , 1983, 124, 109-120.	2.4	26
47	A Computational Assay that Explores the Hemagglutinin/Neuraminidase Functional Balance Reveals the Neuraminidase Secondary Site as a Novel Anti-Influenza Target. <i>ACS Central Science</i> , 2018, 4, 1570-1577.	11.3	25
48	Shared motifs of the capsid proteins of hepadnaviruses and retroviruses suggest a common evolutionary origin. <i>FEBS Letters</i> , 1998, 431, 301-304.	2.8	23
49	Exploiting radiation damage to map proteins in nucleoprotein complexes: The internal structure of bacteriophage T7. <i>Journal of Structural Biology</i> , 2014, 185, 250-256.	2.8	23
50	Cryo-EM structure in situ reveals a molecular switch that safeguards virus against genome loss. <i>ELife</i> , 2020, 9, .	6.0	23
51	The Structure of HIV-1 Rev Filaments Suggests a Bilateral Model for Rev-RRE Assembly. <i>Structure</i> , 2016, 24, 1068-1080.	3.3	22
52	Role of the Propeptide in Controlling Conformation and Assembly State of Hepatitis B Virus e-Antigen. <i>Journal of Molecular Biology</i> , 2011, 409, 202-213.	4.2	21
53	Molecular Basis for the High Degree of Antigenic Cross-Reactivity between Hepatitis B Virus Capsids (HBcAg) and Dimeric Capsid-Related Protein (HBsAg): Insights into the Enigmatic Nature of the e-Antigen. <i>Journal of Molecular Biology</i> , 2010, 398, 530-541.	4.2	20
54	A Cell-penetrating Antibody Fragment against HIV-1 Rev Has High Antiviral Activity. <i>Journal of Biological Chemistry</i> , 2014, 289, 20222-20233.	3.4	20

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55	Structure of an RNA Aptamer that Can Inhibit HIV-1 by Blocking Rev-Cognate RNA (RRE) Binding and Rev-Rev Association. <i>Structure</i> , 2018, 26, 1187-1195.e4.	3.3	18
56	Global Proteomic Profiling of <i>Salmonella</i> Infection by a Giant Phage. <i>Journal of Virology</i> , 2019, 93, .	3.4	18
57	Cryo-EM of retinoschisin branched networks suggests an intercellular adhesive scaffold in the retina. <i>Journal of Cell Biology</i> , 2019, 218, 1027-1038.	5.2	17
58	Structural characterization of the <i>Myxococcus xanthus</i> encapsulin and ferritin-like cargo system gives insight into its iron storage mechanism. <i>Structure</i> , 2022, 30, 551-563.e4.	3.3	16
59	Structures of Hepatitis B Virus Core- and e-Antigen Immune Complexes Suggest Multi-point Inhibition. <i>Structure</i> , 2018, 26, 1314-1326.e4.	3.3	15
60	Internal Proteins of the Procapsid and Mature Capsids of Herpes Simplex Virus 1 Mapped by Bubblegram Imaging. <i>Journal of Virology</i> , 2016, 90, 5176-5186.	3.4	13
61	A new HIV-1 Rev structure optimizes interaction with target RNA (RRE) for nuclear export. <i>Journal of Structural Biology</i> , 2018, 203, 102-108.	2.8	13
62	The RNA-Binding Protein of a Double-Stranded RNA Virus Acts like a Scaffold Protein. <i>Journal of Virology</i> , 2018, 92, .	3.4	13
63	Identification of a Structural Element in HIV-1 Gag Required for Virus Particle Assembly and Maturation. <i>MBio</i> , 2018, 9, .	4.1	12
64	Expression of quasi-equivalence and capsid dimorphism in the Hepadnaviridae. <i>PLoS Computational Biology</i> , 2020, 16, e1007782.	3.2	10
65	INI1/SMARCB1 Rpt1 domain mimics TAR RNA in binding to integrase to facilitate HIV-1 replication. <i>Nature Communications</i> , 2021, 12, 2743.	12.8	9
66	The Mottled Capsid of the <i>Salmonella</i> Giant Phage SPN3US, a Likely Maturation Intermediate with a Novel Internal Shell. <i>Viruses</i> , 2020, 12, 910.	3.3	8
67	Cryo-Electron Tomography of the Herpesvirus Procapsid Reveals Interactions of the Portal with the Scaffold and a Shift on Maturation. <i>MBio</i> , 2021, 12, .	4.1	8
68	Chimeric rabbit/human Fab antibodies against the hepatitis Be-antigen and their potential applications in assays, characterization, and therapy. <i>Journal of Biological Chemistry</i> , 2017, 292, 16760-16772.	3.4	7
69	Conformational Switching in PolyGln Amyloid Fibrils Resulting from a Single Amino Acid Insertion. <i>Biophysical Journal</i> , 2014, 106, 2134-2142.	0.5	3
70	Phage Capsid-like Structure of <i>Myxococcus xanthus</i> Encapsulin, a Protein Shell That Stores Iron. <i>Microscopy and Microanalysis</i> , 2014, 20, 1244-1245.	0.4	3
71	Capsids of hepatitis B virus e antigen with authentic C termini are stabilized by electrostatic interactions. <i>FEBS Letters</i> , 2020, 594, 1052-1061.	2.8	3
72	Biphasic Packing of DNA and Internal Proteins in Bacteriophage T4 Heads Revealed by Bubblegram Imaging. <i>Viruses</i> , 2020, 12, 1282.	3.3	2

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73	Cryo-Electron Microscopy in the Era of Structural Proteomics. , 2008, , 269-306.		1
74	Exploiting the Susceptibility of HIV-1 Nucleocapsid Protein to Radiation Damage in Tomo-Bubblegram Imaging. Microscopy and Microanalysis, 2015, 21, 545-546.	0.4	1
75	A Polymerase-Activating Host Factor, YajQ, Bound to the Bacteriophage ϕ 6 Capsid. Microscopy and Microanalysis, 2016, 22, 1110-1111.	0.4	1
76	Hunting for the Adhesion Molecule, Retinoschisin, in Retina using CEMOVIS. Microscopy and Microanalysis, 2019, 25, 1308-1309.	0.4	1
77	Prohead Perestroika: Bacteriophage T7 Capsid Before and After Maturation. Microscopy and Microanalysis, 1997, 3, 93-94.	0.4	0
78	Protein Unfolding and Degradation by the CLP Family of Proteases. Microscopy and Microanalysis, 1998, 4, 978-979.	0.4	0
79	Proteolytic Control of Bacteriophage HK97 Capsid Maturation.. Microscopy and Microanalysis, 1998, 4, 984-985.	0.4	0
80	ATP-Dependent Conformational Changes and Translocation of Substrates in Clpap Protease as Revealed by Cryo-Electron Microscopy. Microscopy and Microanalysis, 2000, 6, 260-261.	0.4	0
81	Vive La Différence! Mapping Macromolecular Complexes by Generalized Difference Imaging. Microscopy and Microanalysis, 2000, 6, 252-253.	0.4	0
82	[URE3] Prion forms Filamentous Networks in Yeast Cytoplasm. Microscopy and Microanalysis, 2001, 7, 52-53.	0.4	0
83	Functional Architecture of a Protein-Degradation Machine. Microscopy and Microanalysis, 2002, 8, 204-205.	0.4	0
84	Signal Transduction at a Protein Synapse. Cell, 2004, 118, 403-404.	28.9	0
85	HSV-1 Scaffolding Protein Bubbles Readily in the Absence or Presence of DNA, Allowing its Localization in Immature and Mature Nucleocapsids. Microscopy and Microanalysis, 2015, 21, 723-724.	0.4	0
86	β -Synuclein Amyloid Fibrils Formed of Two Protofibrils. Microscopy and Microanalysis, 2015, 21, 1285-1286.	0.4	0
87	Galactose Induces Formation of Chains of the Retinal Adhesion Protein, Retinoschisin. Microscopy and Microanalysis, 2017, 23, 1112-1113.	0.4	0
88	Primary Envelopment of the Herpes Simplex 1 Virion. Microscopy and Microanalysis, 2017, 23, 1224-1225.	0.4	0
89	Applications of Bubblegram Imaging. Microscopy and Microanalysis, 2017, 23, 1258-1259.	0.4	0