

Neil A Ranson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

4,204
citations

34
h-index

64
g-index

97
ext. papers

5,089
ext. citations

12.4
avg, IF

5.51
L-index

#	Paper	IF	Citations
83	A new era for understanding amyloid structures and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2018 , 19, 755-773	48.7	357
82	Location of a folding protein and shape changes in GroEL-GroES complexes imaged by cryo-electron microscopy. <i>Nature</i> , 1994 , 371, 261-4	50.4	336
81	ATP-bound states of GroEL captured by cryo-electron microscopy. <i>Cell</i> , 2001 , 107, 869-79	56.2	248
80	Secretin PulD: association with pilot PulS, structure, and ion-conducting channel formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 8173-7	11.5	179
79	The origins and consequences of asymmetry in the chaperonin reaction cycle. <i>Journal of Molecular Biology</i> , 1995 , 249, 138-52	6.5	173
78	Multivalent binding of nonnative substrate proteins by the chaperonin GroEL. <i>Cell</i> , 2000 , 100, 561-73	56.2	164
77	Chaperonins. <i>Biochemical Journal</i> , 1998 , 333 (Pt 2), 233-42	3.8	155
76	An introduction to sample preparation and imaging by cryo-electron microscopy for structural biology. <i>Methods</i> , 2016 , 100, 3-15	4.6	136
75	Allosteric signaling of ATP hydrolysis in GroEL-GroES complexes. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 147-52	17.6	131
74	Chaperonins can catalyse the reversal of early aggregation steps when a protein misfolds. <i>Journal of Molecular Biology</i> , 1995 , 250, 581-6	6.5	123
73	Lateral opening in the intact β barrel assembly machinery captured by cryo-EM. <i>Nature Communications</i> , 2016 , 7, 12865	17.4	117
72	The chaperonin folding machine. <i>Trends in Biochemical Sciences</i> , 2002 , 27, 627-32	10.3	107
71	The three-dimensional structure of genomic RNA in bacteriophage MS2: implications for assembly. <i>Journal of Molecular Biology</i> , 2008 , 375, 824-36	6.5	98
70	The structure of a β microglobulin fibril suggests a molecular basis for its amyloid polymorphism. <i>Nature Communications</i> , 2018 , 9, 4517	17.4	85
69	Binding, encapsulation and ejection: substrate dynamics during a chaperonin-assisted folding reaction. <i>Journal of Molecular Biology</i> , 1997 , 266, 656-64	6.5	83
68	pH-induced molecular shedding drives the formation of amyloid fibril-derived oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5691-6	11.5	81
67	Amyloid structures: much more than just a cross- β fold. <i>Current Opinion in Structural Biology</i> , 2020 , 60, 7-16	8.1	72

66	Packaging signals in single-stranded RNA viruses: nature's alternative to a purely electrostatic assembly mechanism. <i>Journal of Biological Physics</i> , 2013 , 39, 277-87	1.6	70
65	Engineering the surface properties of a human monoclonal antibody prevents self-association and rapid clearance in vivo. <i>Scientific Reports</i> , 2016 , 6, 38644	4.9	66
64	Approaches to altering particle distributions in cryo-electron microscopy sample preparation. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 560-571	5.5	59
63	Asymmetry, commitment and inhibition in the GroE ATPase cycle impose alternating functions on the two GroEL rings. <i>Journal of Molecular Biology</i> , 1998 , 278, 267-78	6.5	58
62	Direct Evidence for Packaging Signal-Mediated Assembly of Bacteriophage MS2. <i>Journal of Molecular Biology</i> , 2016 , 428, 431-48	6.5	55
61	Revealing the density of encoded functions in a viral RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2227-32	11.5	53
60	Simple rules for efficient assembly predict the layout of a packaged viral RNA. <i>Journal of Molecular Biology</i> , 2011 , 408, 399-407	6.5	52
59	HBV RNA pre-genome encodes specific motifs that mediate interactions with the viral core protein that promote nucleocapsid assembly. <i>Nature Microbiology</i> , 2017 , 2, 17098	26.6	51
58	The asymmetric structure of an icosahedral virus bound to its receptor suggests a mechanism for genome release. <i>Structure</i> , 2013 , 21, 1225-34	5.2	51
57	Nucleocapsid protein structures from orthobunyaviruses reveal insight into ribonucleoprotein architecture and RNA polymerization. <i>Nucleic Acids Research</i> , 2013 , 41, 5912-26	20.1	46
56	Mechanisms of assembly and genome packaging in an RNA virus revealed by high-resolution cryo-EM. <i>Nature Communications</i> , 2015 , 6, 10113	17.4	45
55	Direct visualization of the small hydrophobic protein of human respiratory syncytial virus reveals the structural basis for membrane permeability. <i>FEBS Letters</i> , 2010 , 584, 2786-90	3.8	45
54	The 3.3 Å structure of a plant geminivirus using cryo-EM. <i>Nature Communications</i> , 2018 , 9, 2369	17.4	44
53	Sequence-specific, RNA-protein interactions overcome electrostatic barriers preventing assembly of satellite tobacco necrosis virus coat protein. <i>Journal of Molecular Biology</i> , 2013 , 425, 1050-64	6.5	41
52	Cryo-EM structure of the spinach cytochrome b _f complex at 3.6 Å resolution. <i>Nature</i> , 2019 , 575, 535-539	50.4	40
51	New Structural Insights into the Genome and Minor Capsid Proteins of BK Polyomavirus using Cryo-Electron Microscopy. <i>Structure</i> , 2016 , 24, 528-536	5.2	37
50	Structures of unliganded and ATP-bound states of the Escherichia coli chaperonin GroEL by cryoelectron microscopy. <i>Journal of Structural Biology</i> , 2001 , 135, 115-25	3.4	37
49	Mutually-induced conformational switching of RNA and coat protein underpins efficient assembly of a viral capsid. <i>Journal of Molecular Biology</i> , 2010 , 401, 309-322	6.5	34

48	Metabolic control of BRISC-SHMT2 assembly regulates immune signalling. <i>Nature</i> , 2019 , 570, 194-199	50.4	33
47	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	11.5	33
46	Visualising a viral RNA genome poised for release from its receptor complex. <i>Journal of Molecular Biology</i> , 2011 , 408, 408-19	6.5	33
45	Role of enhanced receptor engagement in the evolution of a pandemic acute hemorrhagic conjunctivitis virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 397-402	11.5	32
44	Collection, pre-processing and on-the-fly analysis of data for high-resolution, single-particle cryo-electron microscopy. <i>Nature Protocols</i> , 2019 , 14, 100-118	18.8	31
43	Bacteriophage MS2 genomic RNA encodes an assembly instruction manual for its capsid. <i>Bacteriophage</i> , 2016 , 6, e1157666		29
42	Fibril structures of diabetes-related amylin variants reveal a basis for surface-templated assembly. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1048-1056	17.6	29
41	α -Microglobulin amyloid fibril-induced membrane disruption is enhanced by endosomal lipids and acidic pH. <i>PLoS ONE</i> , 2014 , 9, e104492	3.7	27
40	Isolation of an asymmetric RNA uncoating intermediate for a single-stranded RNA plant virus. <i>Journal of Molecular Biology</i> , 2012 , 417, 65-78	6.5	27
39	Controlling aggregation of cholesterol-modified DNA nanostructures. <i>Nucleic Acids Research</i> , 2019 , 47, 11441-11451	20.1	23
38	Structural constraints on the three-dimensional geometry of simple viruses: case studies of a new predictive tool. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013 , 69, 140-50		21
37	The Structure of an Infectious Human Polyomavirus and Its Interactions with Cellular Receptors. <i>Structure</i> , 2018 , 26, 839-847.e3	5.2	20
36	Structures of RC-LH1 complexes with open or closed quinone channels. <i>Science Advances</i> , 2021 , 7,	14.3	20
35	Plant-Made Nervous Necrosis Virus-Like Particles Protect Fish Against Disease. <i>Frontiers in Plant Science</i> , 2019 , 10, 880	6.2	19
34	Structural and functional insights into oligopeptide acquisition by the RagAB transporter from <i>Porphyromonas gingivalis</i> . <i>Nature Microbiology</i> , 2020 , 5, 1016-1025	26.6	19
33	Structure of the shutdown state of myosin-2. <i>Nature</i> , 2020 , 588, 515-520	50.4	18
32	Crystal Structure and Proteomics Analysis of Empty Virus-like Particles of Cowpea Mosaic Virus. <i>Structure</i> , 2016 , 24, 567-575	5.2	18
31	Hsc70-induced changes in clathrin-auxilin cage structure suggest a role for clathrin light chains in cage disassembly. <i>Traffic</i> , 2013 , 14, 987-96	5.7	17

30	Agnoprotein Is an Essential Egress Factor during BK Polyomavirus Infection. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	17
29	Limits of structural plasticity in a picornavirus capsid revealed by a massively expanded equine rhinitis A virus particle. <i>Journal of Virology</i> , 2014 , 88, 6093-9	6.6	16
28	Insights into the architecture of the Ure2p yeast protein assemblies from helical twisted fibrils. <i>Protein Science</i> , 2006 , 15, 2481-7	6.3	16
27	Combining Transient Expression and Cryo-EM to Obtain High-Resolution Structures of Luteovirid Particles. <i>Structure</i> , 2019 , 27, 1761-1770.e3	5.2	15
26	Insights into SusCD-mediated glycan import by a prominent gut symbiont. <i>Nature Communications</i> , 2021 , 12, 44	17.4	15
25	The structures of a naturally empty cowpea mosaic virus particle and its genome-containing counterpart by cryo-electron microscopy. <i>Scientific Reports</i> , 2017 , 7, 539	4.9	14
24	Distortion of the bilayer and dynamics of the BAM complex in lipid nanodiscs. <i>Communications Biology</i> , 2020 , 3, 766	6.7	13
23	A new paradigm for the roles of the genome in ssRNA viruses. <i>Future Virology</i> , 2013 , 8, 531-543	2.4	13
22	Assembly of infectious enteroviruses depends on multiple, conserved genomic RNA-coat protein contacts. <i>PLoS Pathogens</i> , 2020 , 16, e1009146	7.6	12
21	Combining high-resolution cryo-electron microscopy and mutagenesis to develop cowpea mosaic virus for bionanotechnology. <i>Biochemical Society Transactions</i> , 2017 , 45, 1263-1269	5.1	11
20	RNA packing specificity and folding during assembly of the bacteriophage MS2.. <i>Computational and Mathematical Methods in Medicine</i> , 2008 , 9, 339-349	2.8	11
19	Dynamics in the murine norovirus capsid revealed by high-resolution cryo-EM. <i>PLoS Biology</i> , 2020 , 18, e3000649	9.7	11
18	MpUL-multi: Software for Calculation of Amyloid Fibril Mass per Unit Length from TB-TEM Images. <i>Scientific Reports</i> , 2016 , 6, 21078	4.9	10
17	Asymmetric genome organization in an RNA virus revealed via graph-theoretical analysis of tomographic data. <i>PLoS Computational Biology</i> , 2015 , 11, e1004146	5	9
16	Dissecting the Fine Details of Assembly of aT = 3 Phage Capsid. <i>Journal of Theoretical Medicine</i> , 2005 , 6, 119-125		9
15	Affimer reagents as tools in diagnosing plant virus diseases. <i>Scientific Reports</i> , 2019 , 9, 7524	4.9	6
14	Cryo-EM structure of human mitochondrial HSPD1. <i>IScience</i> , 2021 , 24, 102022	6.1	5
13	Structure of the 70S Ribosome from the Human Pathogen <i>Acinetobacter baumannii</i> in Complex with Clinically Relevant Antibiotics. <i>Structure</i> , 2020 , 28, 1087-1100.e3	5.2	4

12	A Replicating Viral Vector Greatly Enhances Accumulation of Helical Virus-Like Particles in Plants. <i>Viruses</i> , 2021 , 13,	6.2	4
11	The role of membrane destabilisation and protein dynamics in BAM catalysed OMP folding. <i>Nature Communications</i> , 2021 , 12, 4174	17.4	4
10	The structure of a plant-specific partitivirus capsid reveals a unique coat protein domain architecture with an intrinsically disordered protrusion. <i>Communications Biology</i> , 2021 , 4, 1155	6.7	2
9	Adaptation to genome decay in the structure of the smallest eukaryotic ribosome.. <i>Nature Communications</i> , 2022 , 13, 591	17.4	1
8	High-Resolution Cryo-EM Reveals Dynamics in the Murine Norovirus Capsid		1
7	Dynamic oligopeptide acquisition by the RagAB transporter from <i>Porphyromonas gingivalis</i>		1
6	Inhibitors of the Small Membrane (M) Protein Viroporin Prevent Zika Virus Infection		1
5	Exploring the Effect of Structure-Based Scaffold Hopping on the Inhibition of Coxsackievirus A24v Transduction by Pentavalent N-Acetylneuraminic Acid Conjugates. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
4	In vitro functional analysis of gRNA sites regulating assembly of hepatitis B virus.. <i>Communications Biology</i> , 2021 , 4, 1407	6.7	1
3	Structural insight into <i>Pichia pastoris</i> fatty acid synthase. <i>Scientific Reports</i> , 2021 , 11, 9773	4.9	0
2	Plant-expressed virus-like particles reveal the intricate maturation process of a eukaryotic virus. <i>Communications Biology</i> , 2021 , 4, 619	6.7	0
1	Cryo-Electron Microscopy of Viruses 2010 , 1-33		