

Neil A Ranson

List of Publications by Year in descending order

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86
papers

5,736
citations

81900

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82547

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docs citations

97
times ranked

6286
citing authors

#	ARTICLE	IF	CITATIONS
1	Sal-type ABC-F proteins: intrinsic and common mediators of pleuromutilin resistance by target protection in staphylococci. <i>Nucleic Acids Research</i> , 2022, 50, 2128-2142.	14.5	16
2	Adaptation to genome decay in the structure of the smallest eukaryotic ribosome. <i>Nature Communications</i> , 2022, 13, 591.	12.8	22
3	Antigenic structure of the human coronavirus OC43 spike reveals exposed and occluded neutralizing epitopes. <i>Nature Communications</i> , 2022, 13, .	12.8	12
4	Mechanism of glycogen synthase inactivation and interaction with glycogenin. <i>Nature Communications</i> , 2022, 13, .	12.8	15
5	Cryo-EM structure of human mitochondrial HSPD1. <i>IScience</i> , 2021, 24, 102022.	4.1	16
6	Structures of <i>Rhodospseudomonas palustris</i> RC-LH1 complexes with open or closed quinone channels. <i>Science Advances</i> , 2021, 7, .	10.3	38
7	Insights into SusCD-mediated glycan import by a prominent gut symbiont. <i>Nature Communications</i> , 2021, 12, 44.	12.8	42
8	Structural insight into <i>Pichia pastoris</i> fatty acid synthase. <i>Scientific Reports</i> , 2021, 11, 9773.	3.3	10
9	A Replicating Viral Vector Greatly Enhances Accumulation of Helical Virus-Like Particles in Plants. <i>Viruses</i> , 2021, 13, 885.	3.3	15
10	Plant-expressed virus-like particles reveal the intricate maturation process of a eukaryotic virus. <i>Communications Biology</i> , 2021, 4, 619.	4.4	2
11	The role of membrane destabilisation and protein dynamics in BAM catalysed OMP folding. <i>Nature Communications</i> , 2021, 12, 4174.	12.8	22
12	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, 8418.	4.1	2
13	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.	4.4	11
14	In vitro functional analysis of gRNA sites regulating assembly of hepatitis B virus. <i>Communications Biology</i> , 2021, 4, 1407.	4.4	6
15	Amyloid structures: much more than just a cross- β^2 fold. <i>Current Opinion in Structural Biology</i> , 2020, 60, 7-16.	5.7	150
16	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.	3.3	16
17	Structure of the shutdown state of myosin-2. <i>Nature</i> , 2020, 588, 515-520.	27.8	50
18	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.	8.2	71

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19	Distortion of the bilayer and dynamics of the BAM complex in lipid nanodiscs. <i>Communications Biology</i> , 2020, 3, 766.	4.4	32
20	Structural and functional insights into oligopeptide acquisition by the RagAB transporter from <i>Porphyromonas gingivalis</i> . <i>Nature Microbiology</i> , 2020, 5, 1016-1025.	13.3	46
21	Dynamics in the murine norovirus capsid revealed by high-resolution cryo-EM. <i>PLoS Biology</i> , 2020, 18, e3000649.	5.6	19
22	Assembly of infectious enteroviruses depends on multiple, conserved genomic RNA-coat protein contacts. <i>PLoS Pathogens</i> , 2020, 16, e1009146.	4.7	31
23	Structural characterization of genomic RNA-coat protein contacts in single-stranded RNA viruses by high-resolution cryo-EM. <i>Access Microbiology</i> , 2020, 2, .	0.5	0
24	Securing the future of research computing in the biosciences. <i>PLoS Computational Biology</i> , 2019, 15, e1006958.	3.2	6
25	Combining Transient Expression and Cryo-EM to Obtain High-Resolution Structures of Luteovirid Particles. <i>Structure</i> , 2019, 27, 1761-1770.e3.	3.3	23
26	Controlling aggregation of cholesterol-modified DNA nanostructures. <i>Nucleic Acids Research</i> , 2019, 47, 11441-11451.	14.5	60
27	Cryo-EM structure of the spinach cytochrome b6-f complex at 3.6 Å resolution. <i>Nature</i> , 2019, 575, 535-538.	33.8	83
28	Plant-Made Nervous Necrosis Virus-Like Particles Protect Fish Against Disease. <i>Frontiers in Plant Science</i> , 2019, 10, 880.	3.6	27
29	Metabolic control of BRISCA-SHMT2 assembly regulates immune signalling. <i>Nature</i> , 2019, 570, 194-199.	27.8	51
30	Affimer reagents as tools in diagnosing plant virus diseases. <i>Scientific Reports</i> , 2019, 9, 7524.	3.3	10
31	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
32	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.	12.0	72
33	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.	7.1	43
34	The Structure of an Infectious Human Polyomavirus and Its Interactions with Cellular Receptors. <i>Structure</i> , 2018, 26, 839-847.e3.	3.3	29
35	The structure of a β 2-microglobulin fibril suggests a molecular basis for its amyloid polymorphism. <i>Nature Communications</i> , 2018, 9, 4517.	12.8	124
36	A new era for understanding amyloid structures and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 755-773.	37.0	654

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37	Agnoprotein Is an Essential Egress Factor during BK Polyomavirus Infection. <i>International Journal of Molecular Sciences</i> , 2018, 19, 902.	4.1	27
38	Approaches to altering particle distributions in cryo-electron microscopy sample preparation. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 560-571.	2.3	108
39	The 3.3Å structure of a plant geminivirus using cryo-EM. <i>Nature Communications</i> , 2018, 9, 2369.	12.8	69
40	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.	13.3	69
41	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.	3.3	20
42	Combining high-resolution cryo-electron microscopy and mutagenesis to develop cowpea mosaic virus for bionanotechnology. <i>Biochemical Society Transactions</i> , 2017, 45, 1263-1269.	3.4	11
43	Engineering the surface properties of a human monoclonal antibody prevents self-association and rapid clearance in vivo. <i>Scientific Reports</i> , 2016, 6, 38644.	3.3	89
44	Direct Evidence for Packaging Signal-Mediated Assembly of Bacteriophage MS2. <i>Journal of Molecular Biology</i> , 2016, 428, 431-448.	4.2	80
45	Crystal Structure and Proteomics Analysis of Empty Virus-like Particles of Cowpea Mosaic Virus. <i>Structure</i> , 2016, 24, 567-575.	3.3	22
46	An introduction to sample preparation and imaging by cryo-electron microscopy for structural biology. <i>Methods</i> , 2016, 100, 3-15.	3.8	178
47	Lateral opening in the intact β -barrel assembly machinery captured by cryo-EM. <i>Nature Communications</i> , 2016, 7, 12865.	12.8	157
48	MpUL-multi: Software for Calculation of Amyloid Fibril Mass per Unit Length from TB-TEM Images. <i>Scientific Reports</i> , 2016, 6, 21078.	3.3	11
49	New Structural Insights into the Genome and Minor Capsid Proteins of BK Polyomavirus using Cryo-Electron Microscopy. <i>Structure</i> , 2016, 24, 528-536.	3.3	47
50	Bacteriophage MS2 genomic RNA encodes an assembly instruction manual for its capsid. <i>Bacteriophage</i> , 2016, 6, e1157666.	1.9	38
51	Mechanisms of assembly and genome packaging in an RNA virus revealed by high-resolution cryo-EM. <i>Nature Communications</i> , 2015, 6, 10113.	12.8	57
52	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, 2227-2232.	7.1	64
53	Asymmetric Genome Organization in an RNA Virus Revealed via Graph-Theoretical Analysis of Tomographic Data. <i>PLoS Computational Biology</i> , 2015, 11, e1004146.	3.2	12
54	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, 5691-5696.	7.1	95

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55	Î²2-Microglobulin Amyloid Fibril-Induced Membrane Disruption Is Enhanced by Endosomal Lipids and Acidic pH. PLoS ONE, 2014, 9, e104492.	2.5	30
56	Limits of Structural Plasticity in a Picornavirus Capsid Revealed by a Massively Expanded Equine Rhinitis A Virus Particle. Journal of Virology, 2014, 88, 6093-6099.	3.4	20
57	Packaging signals in single-stranded RNA viruses: nature's alternative to a purely electrostatic assembly mechanism. Journal of Biological Physics, 2013, 39, 277-287.	1.5	86
58	Sequence-Specific, RNA-Protein Interactions Overcome Electrostatic Barriers Preventing Assembly of Satellite Tobacco Necrosis Virus Coat Protein. Journal of Molecular Biology, 2013, 425, 1050-1064.	4.2	50
59	The Asymmetric Structure of an Icosahedral Virus Bound to Its Receptor Suggests a Mechanism for Genome Release. Structure, 2013, 21, 1225-1234.	3.3	61
60	A new paradigm for the roles of the genome in ssRNA viruses. Future Virology, 2013, 8, 531-543.	1.8	18
61	Nucleocapsid protein structures from orthobunyaviruses reveal insight into ribonucleoprotein architecture and RNA polymerization. Nucleic Acids Research, 2013, 41, 5912-5926.	14.5	69
62	Structural constraints on the three-dimensional geometry of simple viruses: case studies of a new predictive tool. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, 140-150.	0.3	25
63	Hsc70-induced Changes in Clathrin-Auxilin Cage Structure Suggest a Role for Clathrin Light Chains in Cage Disassembly. Traffic, 2013, 14, 987-996.	2.7	24
64	Isolation of an Asymmetric RNA Uncoating Intermediate for a Single-Stranded RNA Plant Virus. Journal of Molecular Biology, 2012, 417, 65-78.	4.2	30
65	Simple Rules for Efficient Assembly Predict the Layout of a Packaged Viral RNA. Journal of Molecular Biology, 2011, 408, 399-407.	4.2	59
66	Visualising a Viral RNA Genome Poised for Release from Its Receptor Complex. Journal of Molecular Biology, 2011, 408, 408-419.	4.2	36
67	Direct visualization of the small hydrophobic protein of human respiratory syncytial virus reveals the structural basis for membrane permeability. FEBS Letters, 2010, 584, 2786-2790.	2.8	56
68	Mutually-induced Conformational Switching of RNA and Coat Protein Underpins Efficient Assembly of a Viral Capsid. Journal of Molecular Biology, 2010, 401, 309-322.	4.2	37
69	Cryo-Electron Microscopy of Viruses. , 2010, , 1-33.		1
70	The Three-dimensional Structure of Genomic RNA in Bacteriophage MS2: Implications for Assembly. Journal of Molecular Biology, 2008, 375, 824-836.	4.2	105
71	RNA Packing Specificity and Folding during Assembly of the Bacteriophage MS2. Computational and Mathematical Methods in Medicine, 2008, 9, 339-349.	1.3	12
72	Allosteric signaling of ATP hydrolysis in GroEL-GroES complexes. Nature Structural and Molecular Biology, 2006, 13, 147-152.	8.2	142

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73	Insights into the architecture of the Ure2p yeast protein assemblies from helical twisted fibrils. <i>Protein Science</i> , 2006, 15, 2481-2487.	7.6	18
74	Electron microscopy as a tool for 3D structure determination in molecular structural biology. , 2005, , .		0
75	Dissecting the Fine Details of Assembly of a T4 Phage Capsid. <i>Journal of Theoretical Medicine</i> , 2005, 6, 119-125.	0.5	10
76	The chaperonin folding machine. <i>Trends in Biochemical Sciences</i> , 2002, 27, 627-632.	7.5	118
77	Structures of Unliganded and ATP-Bound States of the Escherichia coli Chaperonin GroEL by Cryoelectron Microscopy. <i>Journal of Structural Biology</i> , 2001, 135, 115-125.	2.8	40
78	ATP-Bound States of GroEL Captured by Cryo-Electron Microscopy. <i>Cell</i> , 2001, 107, 869-879.	28.9	274
79	Multivalent Binding of Nonnative Substrate Proteins by the Chaperonin GroEL. <i>Cell</i> , 2000, 100, 561-573.	28.9	183
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, 8173-8177.	7.1	189
81	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, 267-278.	4.2	61
82	Chaperonins. <i>Biochemical Journal</i> , 1998, 333, 233-242.	3.7	176
83	Binding, encapsulation and ejection: substrate dynamics during a chaperonin-assisted folding reaction. <i>Journal of Molecular Biology</i> , 1997, 266, 656-664.	4.2	88
84	The Origins and Consequences of Asymmetry in the Chaperonin Reaction Cycle. <i>Journal of Molecular Biology</i> , 1995, 249, 138-152.	4.2	178
85	Chaperonins can Catalyse the Reversal of Early Aggregation Steps when a Protein Misfolds. <i>Journal of Molecular Biology</i> , 1995, 250, 581-586.	4.2	131
86	Location of a folding protein and shape changes in GroEL-GroES complexes imaged by cryo-electron microscopy. <i>Nature</i> , 1994, 371, 261-264.	27.8	366