John E Johnson

List of Publications by Year
in descending order

187 papers	14,466 citations	19636 61 h-index	21521 114 g-index
193 all docs	193 docs citations	193 times ranked	7720 citing authors

#	Article	IF	Citations
1	Structure of a human common cold virus and functional relationship to other picornaviruses. Nature, 1985, 317, 145-153.	13.7	1,547
2	Structures of the native and swollen forms of cowpea chlorotic mottle virus determined by X-ray crystallography and cryo-electron microscopy. Structure, 1995, 3, 63-78.	1.6	672
3	Topologically Linked Protein Rings in the Bacteriophage HK97 Capsid. Science, 2000, 289, 2129-2133.	6.0	639
4	Structure of southern bean mosaic virus at 2.8 Ã… resolution. Nature, 1980, 286, 33-39.	13.7	437
5	Icosahedral Virus Particles as Addressable Nanoscale Building Blocks. Angewandte Chemie - International Edition, 2002, 41, 459-462.	7.2	365
6	VIPERdb2: an enhanced and web API enabled relational database for structural virology. Nucleic Acids Research, 2009, 37, D436-D442.	6.5	348
7	Quasi-equivalent viruses: a paradigm for protein assemblies 1 1Edited by T. Richmond. Journal of Molecular Biology, 1997, 269, 665-675.	2.0	280
8	The Structure of an Infectious P22 Virion Shows the Signal for Headful DNA Packaging. Science, 2006, 312, 1791-1795.	6.0	276
9	Ordered duplex RNA controls capsid architecture in an icosahedral animal virus. Nature, 1993, 361, 176-179.	13.7	262
10	The Refined Crystal Structure of Cowpea Mosaic Virus at 2.8 Ã… Resolution. Virology, 1999, 265, 20-34.	1.1	253
11	Natural Supramolecular Building Blocks. Chemistry and Biology, 2002, 9, 805-811.	6.2	245
12	From The Cover: The structure of a thermophilic archaeal virus shows a double-stranded DNA viral capsid type that spans all domains of life. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7716-7720.	3.3	219
13	Cowpea Mosaic Virus as a Scaffold for 3-D Patterning of Gold Nanoparticles. Nano Letters, 2004, 4, 867-870.	4.5	209
14	Natural Supramolecular Building Blocks. Chemistry and Biology, 2002, 9, 813-819.	6.2	183
15	Fabrication of Assembled Virus Nanostructures on Templates of Chemoselective Linkers Formed by Scanning Probe Nanolithography. Journal of the American Chemical Society, 2003, 125, 6848-6849.	6.6	176
16	Virus Particle Explorer (VIPER), a Website for Virus Capsid Structures and Their Computational Analyses. Journal of Virology, 2001, 75, 11943-11947.	1.5	174
17	Evidence of Viral Capsid Dynamics Using Limited Proteolysis and Mass Spectrometry. Journal of Biological Chemistry, 1998, 273, 673-676.	1.6	170
18	Structure of an archaeal virus capsid protein reveals a common ancestry to eukaryotic and bacterial viruses. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18944-18949.	3.3	169

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19	Functional implications of quasi-equivalence in a T=3 icosahedral animal virus established by cryo-electron microscopy and X-ray crystallography. Structure, 1994, 2, 271-282.	1.6	166
20	Studying 18â€…MDa Virus Assemblies with Native Mass Spectrometry. Angewandte Chemie - International Edition, 2013, 52, 4020-4023.	7.2	164
21	The Refined Structure of a Protein Catenane: The HK97 Bacteriophage Capsid at 3.44 Ã… Resolution. Journal of Molecular Biology, 2003, 334, 885-899.	2.0	162
22	The structure of pariacoto virus reveals a dodecahedral cage of duplex RNA. Nature Structural Biology, 2001, 8, 77-83.	9.7	157
23	L-A virus at 3.4 Ã… resolution reveals particle architecture and mRNA decapping mechanism. Nature Structural Biology, 2002, 9, 725-728.	9.7	151
24	Bacteriophage Lambda Stabilization by Auxiliary Protein gpD: Timing, Location, and Mechanism of Attachment Determined by Cryo-EM. Structure, 2008, 16, 1399-1406.	1.6	150
25	New Addresses on an Addressable Virus Nanoblock. Chemistry and Biology, 2004, 11, 855-863.	6.2	143
26	Three-dimensional structure of a viral genome-delivery portal vertex. Nature Structural and Molecular Biology, 2011, 18, 597-603.	3.6	142
27	Maturation Dynamics of a Viral Capsid. Cell, 2000, 100, 253-263.	13.5	136
28	P22 Coat Protein Structures Reveal a Novel Mechanism for Capsid Maturation: Stability without Auxiliary Proteins or Chemical Crosslinks. Structure, 2010, 18, 390-401.	1.6	136
29	An unexpected twist in viral capsid maturation. Nature, 2009, 458, 646-650.	13.7	120
30	VIPERdb: a relational database for structural virology. Nucleic Acids Research, 2006, 34, D386-D389.	6.5	115
31	An Engineered Virus as a Scaffold for Three-Dimensional Self-Assembly on the Nanoscale. Small, 2005, 1, 702-706.	5.2	114
32	Identification of a Fab interaction footprint site on an icosahedral virus by cryoelectron microscopy and X-ray crystallography. Nature, 1992, 355, 275-278.	13.7	113
33	The crystal structure of cricket paralysis virus: the first view of a new virus family. Nature Structural Biology, 1999, 6, 765-774.	9.7	113
34	The combination of chemical fixation procedures with high pressure freezing and freeze substitution preserves highly labile tissue ultrastructure for electron tomography applications. Journal of Structural Biology, 2008, 161, 359-371.	1.3	111
35	DNA packaging and delivery machines in tailed bacteriophages. Current Opinion in Structural Biology, 2007, 17, 237-243.	2.6	107
36	Mechanics of bacteriophage maturation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2342-2347.	3.3	106

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37	PRESENTATION OF HETEROLOGOUS PEPTIDES ON PLANT VIRUSES: Genetics, Structure, and Function. Annual Review of Phytopathology, 1997, 35, 67-86.	3.5	104
38	The Structure and Function of Nodavirus Particles: A Paradigm for Understanding Chemical Biology. Advances in Virus Research, 1998, 50, 381-446.	0.9	104
39	The 2.8 Ã… Structure of aT=4 Animal Virus and its Implications for Membrane Translocation of RNA. Journal of Molecular Biology, 1996, 261, 1-10.	2.0	103
40	Host RNAs, including transposons, are encapsidated by a eukaryotic single-stranded RNA virus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1907-1912.	3.3	103
41	Large conformational changes in the maturation of a simple RNA virus, Nudaurelia capensis Ï‰ virus (NÏ‰V) 1 1Edited by D. Rees. Journal of Molecular Biology, 2000, 299, 573-584.	2.0	101
42	Peering Down the Barrel of a Bacteriophage Portal: The Genome Packaging and Release Valve in P22. Structure, 2011, 19, 496-502.	1.6	101
43	Structures of virus and virus-like particles. Current Opinion in Structural Biology, 2000, 10, 229-235.	2.6	99
44	Heterologous expression of the modified coat protein of Cowpea chlorotic mottle bromovirus results in the assembly of protein cages with altered architectures and function. Journal of General Virology, 2004, 85, 1049-1053.	1.3	96
45	Virus particle maturation: insights into elegantly programmed nanomachines. Current Opinion in Structural Biology, 2010, 20, 210-216.	2.6	94
46	Particle Polymorphism Caused by Deletion of a Peptide Molecular Switch in a Quasiequivalent Icosahedral Virus. Journal of Virology, 1998, 72, 6024-6033.	1.5	93
47	Low resolution meets high: towards a resolution continuum from cells to atoms. Current Opinion in Structural Biology, 1996, 6, 585-594.	2.6	90
48	The Refined Three-Dimensional Structure of an Insect Virus at 2Â·8 Ã… Resolution. Journal of Molecular Biology, 1994, 235, 565-586.	2.0	87
49	Crystallographically identical virus capsids display different properties in solution. Nature Structural Biology, 1999, 6, 114-116.	9.7	86
50	Discovery of functional genomic motifs in viruses with ViReMaâ€“a Virus Recombination Mapperâ€“for analysis of next-generation sequencing data. Nucleic Acids Research, 2014, 42, e11-e11.	6.5	85
51	A cowpea mosaic virus nanoscaffold for multiplexed antibody conjugation: Application as an immunoassay tracer. Biosensors and Bioelectronics, 2006, 21, 1668-1673.	5.3	80
52	Virus Maturation. Annual Review of Biophysics, 2012, 41, 473-496.	4.5	80
53	Nucleic acid packaging in viruses. Current Opinion in Structural Biology, 2012, 22, 65-71.	2.6	78
54	3D Domain Swapping Modulates the Stability of Members of an Icosahedral Virus Group. Structure, 2000, 8, 1095-1103.	1.6	77

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55	Atomic structure of the 75 MDa extremophile <i>Sulfolobus</i> turreted icosahedral virus determined by CryoEM and X-ray crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5504-5509.	3.3	77
56	Use of macromolecular assemblies as expression systems for peptides and synthetic vaccines. Current Opinion in Structural Biology, 1996, 6, 176-182.	2.6	76
57	Three-dimensional structure of the bacteriophage P22 tail machine. EMBO Journal, 2005, 24, 2087-2095.	3.5	76
58	Structure-based design of peptide presentation on a viral surface: the crystal structure of a plant/animal virus chimera at 2.8 Ã¥ resolution. Folding & Design, 1996, 1, 179-187.	4.5	75
59	Influence of three-dimensional structure on the immunogenicity of a peptide expressed on the surface of a plant virus. Journal of Molecular Recognition, 2000, 13, 71-82.	1.1	71
60	An Animal Virus-Derived Peptide Switches Membrane Morphology:Â Possible Relevance to Nodaviral Transfection Processesâ€. Biochemistry, 1999, 38, 5328-5336.	1.2	70
61	The structure of tobacco ringspot virus: a link in the evolution of icosahedral capsids in the picornavirus superfamily. Structure, 1998, 6, 157-171.	1.6	65
62	Analysis of rapid, large-scale protein quaternary structural changes: time-resolved X-ray solution scattering of Nudaurelia capensis Ï‰ virus (NÏ‰V) maturation. Journal of Molecular Biology, 2001, 311, 803-814.	2.0	65
63	Large-Scale, pH-Dependent, Quaternary Structure Changes in an RNA Virus Capsid Are Reversible in the Absence of Subunit Autoproteolysis. Journal of Virology, 2002, 76, 9972-9980.	1.5	64
64	The P22 Tail Machine at Subnanometer Resolution Reveals the Architecture of an Infection Conduit. Structure, 2009, 17, 789-799.	1.6	63
65	A highly membrane-active peptide in Flock House virus: implications for the mechanism of nodavirus infection. Chemistry and Biology, 1999, 6, 473-481.	6.2	60
66	Structures of Picorna-Like Plant Viruses: Implications and Applications. Advances in Virus Research, 2003, 62, 167-239.	0.9	60
67	Activation, Exposure and Penetration of Virally Encoded, Membrane-Active Polypeptides During Non-Enveloped Virus Entry. Current Protein and Peptide Science, 2008, 9, 16-27.	0.7	60
68	In Vivo Assembly of an Archaeal Virus Studied withÂWhole-Cell Electron Cryotomography. Structure, 2010, 18, 1579-1586.	1.6	60
69	All-Atom Multiscale Simulation of Cowpea Chlorotic Mottle Virus Capsid Swelling. Journal of Physical Chemistry B, 2010, 114, 11181-11195.	1.2	60
70	ClickSeq: Fragmentation-Free Next-Generation Sequencing via Click Ligation of Adaptors to Stochastically Terminated 3â€²-Azido cDNAs. Journal of Molecular Biology, 2015, 427, 2610-2616.	2.0	60
71	Capsid Conformational Sampling in HK97 Maturation Visualized by X-Ray Crystallography and Cryo-EM. Structure, 2006, 14, 1655-1665.	1.6	58
72	The Prohead-I Structure of Bacteriophage HK97: Implications for Scaffold-Mediated Control of Particle Assembly and Maturation. Journal of Molecular Biology, 2011, 408, 541-554.	2.0	58

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73	The structure of Southern bean mosaic virus at 22.5 Ã… resolution. Virology, 1976, 75, 394-400.	1.1	57
74	The refined structure of Nudaurelia capensis Ï‰ Virus reveals control elements for a T = 4 capsid maturation. Virology, 2004, 318, 192-203.	1.1	57
75	Bacteriophage HK97 Capsid Assembly and Maturation. Advances in Experimental Medicine and Biology, 2012, 726, 351-363.	0.8	55
76	Time-resolved molecular dynamics of bacteriophage HK97 capsid maturation interpreted by electron cryo-microscopy and X-ray crystallography. Journal of Structural Biology, 2006, 153, 300-306.	1.3	54
77	Assembly of the T = 4 Nudaurelia capensis Ï‰ Virus Capsid Protein, Post-Translational Cleavage, and Specific Encapsidation of Its mRNA in a Baculovirus Expression System. Virology, 1995, 207, 89-97.	1.1	53
78	Visualizing flock house virus infection in Drosophila cells with correlated fluorescence and electron microscopy. Journal of Structural Biology, 2008, 161, 439-446.	1.3	53
79	Generation and Structural Analysis of Reactive Empty Particles Derived from an Icosahedral Virus. Chemistry and Biology, 2006, 13, 771-778.	6.2	50
80	A statistical approach to computer processing of cryo-electron microscope images: virion classification and 3-D reconstruction. Journal of Structural Biology, 2003, 144, 24-50.	1.3	49
81	Virus Particle Dynamics. Advances in Protein Chemistry, 2003, 64, 197-218.	4.4	49
82	Flock House Virus: A Model System for Understanding Non-Enveloped Virus Entry and Membrane Penetration. Current Topics in Microbiology and Immunology, 2010, 343, 1-22.	0.7	48
83	Control of Crosslinking by Quaternary Structure Changes during Bacteriophage HK97 Maturation. Molecular Cell, 2004, 14, 559-569.	4.5	47
84	Macromolecular mass spectrometry and electron microscopy as complementary tools for investigation of the heterogeneity of bacteriophage portal assemblies. Journal of Structural Biology, 2007, 157, 371-383.	1.3	47
85	Sequence and analysis of the capsid protein of Nudaurelia capensis Ï‰ virus, an insect virus with T = 4 icosahedral symmetry. Virology, 1992, 190, 806-814.	1.1	46
86	Preliminary crystallographic analysis of the bacteriophage P22 portal protein. Journal of Structural Biology, 2002, 139, 46-54.	1.3	46
87	Assembly Architecture and DNA Binding of the Bacteriophage P22 Terminase Small Subunit. Journal of Molecular Biology, 2008, 383, 494-501.	2.0	46
88	Low Endocytic pH and Capsid Protein Autocleavage Are Critical Components of Flock House Virus Cell Entry. Journal of Virology, 2009, 83, 8628-8637.	1.5	46
89	Differences in Pressure Stability of the Three Components of Cowpea Mosaic Virus: Implications for Virus Assembly and Disassembly. Biochemistry, 1994, 33, 8339-8346.	1.2	45
90	Direct Imaging of Interactions between an Icosahedral Virus and Conjugate Fab Fragments by Cryoelectron Microscopy and X-Ray Crystallography. Virology, 1994, 204, 777-788.	1.1	44

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91	Dynamics in cryo EM reconstructions visualized with maximum-likelihood derived variance maps. Journal of Structural Biology, 2013, 181, 195-206.	1.3	43
92	Exploring icosahedral virus structures with VIPER. Nature Reviews Microbiology, 2005, 3, 809-817.	13.6	42
93	Pseudo-atomic models of swollen CCMV from cryo-electron microscopy data. Journal of Structural Biology, 2003, 142, 356-363.	1.3	36
94	Evidence that a Local Refolding Event Triggers Maturation of HK97 Bacteriophage Capsid. Journal of Molecular Biology, 2004, 340, 419-433.	2.0	36
95	Maturation of a tetravirus capsid alters the dynamic properties and creates a metastable complex. Virology, 2005, 334, 17-27.	1.1	36
96	The structure of southern bean mosaic virus at 5 Ã… resolution. Virology, 1978, 85, 187-197.	1.1	35
97	Tje spherically averaged structures of cowpea mosaic virus components by X-ray solution scattering. Virology, 1983, 127, 65-73.	1.1	35
98	VIPERdb v3.0: a structure-based data analytics platform for viral capsids. Nucleic Acids Research, 2021, 49, D809-D816.	6.5	35
99	Architecture of a dsDNA Viral Capsid in Complex with Its Maturation Protease. Structure, 2014, 22, 230-237.	1.6	34
100	Virus Capsid Expansion Driven by the Capture of Mobile Surface Loops. Structure, 2008, 16, 1491-1502.	1.6	33
101	The Architecture and Chemical Stability of the Archaeal <i>Sulfolobus</i> Turreted Icosahedral Virus. Journal of Virology, 2010, 84, 9575-9583.	1.5	33
102	Single-particle EM reveals plasticity of interactions between the adenovirus penton base and integrin Î± _V Î² ₃. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8815-8819.	3.3	33
103	Virusâ€Templated Plasmonic Nanoclusters with Icosahedral Symmetry via Directed Selfâ€Assembly. Small, 2014, 10, 3058-3063.	5.2	32
104	VIPERdb: A Tool for Virus Research. Annual Review of Virology, 2018, 5, 477-488.	3.0	32
105	Structure and cell biology of archaeal virus STIV. Current Opinion in Virology, 2012, 2, 122-127.	2.6	31
106	The packing of Southern Bean Mosaic Virus in various crystal cells. Journal of Ultrastructure Research, 1975, 53, 306-318.	1.4	30
107	Critical Salt Bridges Guide Capsid Assembly, Stability, and Maturation Behavior in Bacteriophage HK97. Molecular and Cellular Proteomics, 2010, 9, 1752-1763.	2.5	30
108	Maximizing the potential of electron cryomicroscopy data collected using direct detectors. Journal of Structural Biology, 2013, 184, 193-202.	1.3	30

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109	Architecture of the Complex Formed by Large and Small Terminase Subunits from Bacteriophage P22. Journal of Molecular Biology, 2015, 427, 3285-3299.	2.0	30
110	Crystalline cowpea mosaic virus. Virology, 1980, 101, 319-324.	1.1	29
111	Virus Maturation Targets the Protein Capsid to Concerted Disassembly and Unfolding. Journal of Biological Chemistry, 2000, 275, 16037-16043.	1.6	29
112	Complex Pattern Formation by Cowpea Mosaic Virus Nanoparticles. Langmuir, 2002, 18, 308-310.	1.6	29
113	Virus Assembly and Maturation: Auto-Regulation through Allosteric Molecular Switches. Journal of Molecular Biology, 2013, 425, 1488-1496.	2.0	29
114	Cooperative Reorganization of a 420 Subunit Virus Capsid. Journal of Molecular Biology, 2005, 352, 723-735.	2.0	28
115	Dissecting the Functional Domains of a Nonenveloped Virus Membrane Penetration Peptide. Journal of Virology, 2009, 83, 6929-6933.	1.5	28
116	Structure and Function of a Genetically Engineered Mimic of a Nonenveloped Virus Entry Intermediate. Journal of Virology, 2010, 84, 4737-4746.	1.5	27
117	HK97 Maturation Studied by Crystallography and H/2H Exchange Reveals the Structural Basis for Exothermic Particle Transitions. Journal of Molecular Biology, 2010, 397, 560-574.	2.0	27
118	A virus-based nanoplasmonic structure as a surface-enhanced Raman biosensor. Biosensors and Bioelectronics, 2016, 77, 306-314.	5.3	27
119	Structural Fingerprinting: Subgrouping of Comoviruses by Structural Studies of Red Clover Mottle Virus to 2.4-â„« Resolution and Comparisons with Other Comoviruses. Journal of Virology, 2000, 74, 493-504.	1.5	26
120	Folding and particle assembly are disrupted by single-point mutations near the autocatalytic cleavage site of Nudaurelia capensis Â virus capsid protein. Protein Science, 2005, 14, 401-408.	3.1	26
121	Balanced Electrostatic and Structural Forces Guide the Large Conformational Change Associated with Maturation of T = 4 Virus. Biophysical Journal, 2010, 98, 1337-1343.	0.2	26
122	Dissecting Quasi-Equivalence in Nonenveloped Viruses: Membrane Disruption Is Promoted by Lytic Peptides Released from Subunit Pentamers, Not Hexamers. Journal of Virology, 2012, 86, 9976-9982.	1.5	26
123	Capsomer Dynamics and Stabilization in the TÂ= 12 Marine Bacteriophage SIO-2 and Its Procapsid Studied by CryoEM. Structure, 2012, 20, 498-503.	1.6	26
124	Crystal Structure and Proteomics Analysis of Empty Virus-like Particles of Cowpea Mosaic Virus. Structure, 2016, 24, 567-575.	1.6	22
125	Protein-RNA Interactions and Virus Stability as Probed by the Dynamics of Tryptophan Side Chains. Journal of Biological Chemistry, 2002, 277, 47596-47602.	1.6	21
126	Crystallographic studies of cowpea mosaic virus by electron microscopy and x-ray diffraction. Journal of Ultrastructure Research, 1981, 74, 223-231.	1.4	20

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127	Evidence for assembly-dependent folding of protein and RNA in an icosahedral virus. Virology, 2003, 314, 26-33.	1.1	20
128	Nucleotide-Resolution Profiling of RNA Recombination in the Encapsidated Genome of a Eukaryotic RNA Virus by Next-Generation Sequencing. Journal of Molecular Biology, 2012, 424, 257-269.	2.0	20
129	Maturation in Action: CryoEM Study of a Viral Capsid Caught during Expansion. Structure, 2012, 20, 1384-1390.	1.6	20
130	Correlation of chemical reactivity of Nudaurelia capensis ? virus with a pH-induced conformational change. Chemical Communications, 2003, , 2770.	2.2	19
131	Morphological Changes in the T=3 Capsid of Flock House Virus during Cell Entry. Journal of Virology, 2006, 80, 615-622.	1.5	19
132	Characterization of Large Conformational Changes and Autoproteolysis in the Maturation of a T=4 Virus Capsid. Journal of Virology, 2009, 83, 1126-1134.	1.5	19
133	Subunits fold at position-dependent rates during maturation of a eukaryotic RNA virus. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14111-14115.	3.3	19
134	CoVaMa: Co-Variation Mapper for disequilibrium analysis of mutant loci in viral populations using next-generation sequence data. Methods, 2015, 91, 40-47.	1.9	19
135	Isolation and Characterization of Metallosphaera Turreted Icosahedral Virus, a Founding Member of a New Family of Archaeal Viruses. Journal of Virology, 2017, 91, .	1.5	19
136	Cryo-EM Elucidation of the Structure of Bacteriophage P22 Virions after Genome Release. Biophysical Journal, 2018, 114, 1295-1301.	0.2	19
137	Steric and Electrostatic Complementarity in the Assembly of Two-Dimensional Virus Arrays. Langmuir, 2010, 26, 3498-3505.	1.6	18
138	Rescue of Maturation-Defective Flock House Virus Infectivity with Noninfectious, Mature, Viruslike Particles. Journal of Virology, 2008, 82, 2025-2027.	1.5	17
139	Dynamics and Stability in Maturation of a T=4 Virus. Journal of Molecular Biology, 2009, 392, 803-812.	2.0	17
140	Icosahedral virus structures and the protein data bank. Journal of Biological Chemistry, 2021, 296, 100554.	1.6	17
141	Evolution in Action: N and C Termini of Subunits in Related T = 4 Viruses Exchange Roles as Molecular Switches. Structure, 2010, 18, 700-709.	1.6	16
142	Near-atomic resolution reconstructions using a mid-range electron microscope operated at 200kV. Journal of Structural Biology, 2014, 188, 183-187.	1.3	16
143	Ab initio maximum likelihood reconstruction from cryo electron microscopy images of an infectious virion of the tailed bacteriophage P22 and maximum likelihood versions of Fourier Shell Correlation appropriate for measuring resolution of spherical or cylindrical objects. Journal of Structural Biology, 2009, 167, 185-199.	1.3	15
144	Exact Reduced-Complexity Maximum Likelihood Reconstruction of Multiple 3-D Objects From Unlabeled Unoriented 2-D Projections and Electron Microscopy of Viruses. IEEE Transactions on Image Processing, 2007, 16, 2865-2878.	6.0	14

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145	Packaging host RNAs in small RNA viruses. Cell Cycle, 2012, 11, 3713-3714.	1.3	14
146	Dynamic and geometric analyses of <i>Nudaurelia capensis</i> Ï‰ virus maturation reveal the energy landscape of particle transitions. Journal of Molecular Recognition, 2014, 27, 230-237.	1.1	14
147	Virus particle dynamics derived from CryoEM studies. Current Opinion in Virology, 2016, 18, 57-63.	2.6	14
148	Multi-disciplinary studies of viruses: The role of structure in shaping the questions and answers. Journal of Structural Biology, 2008, 163, 246-253.	1.3	13
149	Pass the Jelly Rolls. Structure, 2011, 19, 904-906.	1.6	12
150	Data to knowledge: how to get meaning from your result. IUCrJ, 2015, 2, 45-58.	1.0	12
151	Intracellular Delivery of Luminescent Quantum Dots Mediated by a Virus-Derived Lytic Peptide. Bioconjugate Chemistry, 2017, 28, 64-74.	1.8	12
152	Hibiscus Chlorotic Ringspot Virus Coat Protein Is Essential for Cell-to-Cell and Long-Distance Movement but Not for Viral RNA Replication. PLoS ONE, 2014, 9, e113347.	1.1	11
153	Binding and entry of a non-enveloped T =4 insect RNA virus is triggered by alkaline pH. Virology, 2016, 498, 277-287.	1.1	10
154	Long term storage of virus templated fluorescent materials for sensing applications. Nanotechnology, 2008, 19, 105504.	1.3	9
155	Confessions of an icosahedral virus crystallographer. Microscopy (Oxford, England), 2013, 62, 69-79.	0.7	9
156	Assembly and Maturation of a T = 4 Quasi-Equivalent Virus Is Guided by Electrostatic and Mechanical Forces. Viruses, 2014, 6, 3348-3362.	1.5	9
157	Small Compounds Targeted to Subunit Interfaces Arrest Maturation in a Nonenveloped, Icosahedral Animal Virus. Journal of Virology, 2004, 78, 7208-7216.	1.5	7
158	Effect of the viral protease on the dynamics of bacteriophage HK97 maturation intermediates characterized by variance analysis of cryo EM particle ensembles. Journal of Structural Biology, 2016, 193, 188-195.	1.3	7
159	In vivo virus structures: Simultaneous classification, resolution enhancement, and noise reduction in whole-cell electron tomography. Journal of Structural Biology, 2011, 174, 425-433.	1.3	6
160	Enzymes and Enzyme Activity Encoded by Nonenveloped Viruses. Annual Review of Virology, 2017, 4, 221-240.	3.0	6
161	Multiclass Maximum-Likelihood Symmetry Determination and Motif Reconstruction of 3-D Helical Objects From Projection Images for Electron Microscopy. IEEE Transactions on Image Processing, 2011, 20, 1962-1976.	6.0	5
162	Allosteric effects in bacteriophage HK97 procapsids revealed directly from covariance analysis of cryo EM data. Journal of Structural Biology, 2018, 202, 129-141.	1.3	5

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163	Crystallization and preliminary analysis of a dsDNA bacteriophage capsid intermediate: Prohead II of HK97. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 2060-2064.	2.5	4
164	An optimal exposure strategy for cryoprotected virus crystals with lattice constants greater than 1000â€…Ã…. Journal of Synchrotron Radiation, 2008, 15, 223-226.	1.0	4
165	Reciprocal space representations of helical objects and their projection images for helices constructed from motifs without spherical symmetry. Ultramicroscopy, 2009, 109, 253-263.	0.8	4
166	Dynamics and stability in the maturation of a eukaryotic virus: a paradigm for chemically programmed large-scale macromolecular reorganization. Archives of Virology, 2021, 166, 1547-1563.	0.9	4
167	A new dimension in structural biology: fully fledged high-pressure macromolecular crystallography. High Pressure Research, 2004, 24, 173-182.	0.4	3
168	Detecting asymmetry in the presence of symmetry with maximum likelihood threeâ€dimensional reconstructions of viruses from electron microscope images. IET Image Processing, 2016, 10, 624-629.	1.4	3
169	Integration of X-ray crystallography and electron cryo-microscopy in the analysis of virus structure and function. Crystallography Reviews, 2016, 22, 102-127.	0.4	3
170	Small protein sequences can induce cellular uptake of complex nanohybrids. Beilstein Journal of Nanotechnology, 2019, 10, 2477-2482.	1.5	2
171	Plant-expressed virus-like particles reveal the intricate maturation process of a eukaryotic virus. Communications Biology, 2021, 4, 619.	2.0	2
172	Maximum likelihood 3D reconstruction of multiple viruses from mixtures of cryo electron microscope images. , 2005, , .		1
173	Nanoclusters: Virusâ€Templated Plasmonic Nanoclusters with Icosahedral Symmetry via Directed Selfâ€Assembly (Small 15/2014). Small, 2014, 10, 3196-3196.	5.2	1
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