

John E Johnson

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2290137/john-e-johnson-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

181
papers

12,595
citations

61
h-index

108
g-index

193
ext. papers

13,540
ext. citations

8.3
avg, IF

6.04
L-index

#	Paper	IF	Citations
181	Dynamics and stability in the maturation of a eukaryotic virus: a paradigm for chemically programmed large-scale macromolecular reorganization. <i>Archives of Virology</i> , 2021 , 166, 1547-1563	2.6	2
180	Plant-expressed virus-like particles reveal the intricate maturation process of a eukaryotic virus. <i>Communications Biology</i> , 2021 , 4, 619	6.7	0
179	VIPERdb v3.0: a structure-based data analytics platform for viral capsids. <i>Nucleic Acids Research</i> , 2021 , 49, D809-D816	20.1	7
178	Icosahedral virus structures and the protein data bank. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100554	5.4	3
177	Michael G. Rossmann (1930-2019): Leadership in structural biology for 60 years. <i>Protein Science</i> , 2019 , 28, 1538	6.3	0
176	Michael G. Rossmann (1930-2019), pioneer in macromolecular and virus crystallography: scientist, mentor and friend. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019 , 75, 523-527	5.5	
175	Small protein sequences can induce cellular uptake of complex nanohybrids. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 2477-2482	3	1
174	Raising the Curtain on the Structure of Luteovirids. <i>Structure</i> , 2019 , 27, 1735-1736	5.2	
173	Allosteric effects in bacteriophage HK97 procapsids revealed directly from covariance analysis of cryo EM data. <i>Journal of Structural Biology</i> , 2018 , 202, 129-141	3.4	5
172	Cryo-EM Elucidation of the Structure of Bacteriophage P22 Virions after Genome Release. <i>Biophysical Journal</i> , 2018 , 114, 1295-1301	2.9	11
171	VIPERdb: A Tool for Virus Research. <i>Annual Review of Virology</i> , 2018 , 5, 477-488	14.6	20
170	Intracellular Delivery of Luminescent Quantum Dots Mediated by a Virus-Derived Lytic Peptide. <i>Bioconjugate Chemistry</i> , 2017 , 28, 64-74	6.3	11
169	Isolation and Characterization of Metallosphaera Turreted Icosahedral Virus, a Founding Member of a New Family of Archaeal Viruses. <i>Journal of Virology</i> , 2017 , 91,	6.6	14
168	Enzymes and Enzyme Activity Encoded by Nonenveloped Viruses. <i>Annual Review of Virology</i> , 2017 , 4, 221-240	14.6	5
167	A virus-based nanoplasmonic structure as a surface-enhanced Raman biosensor. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 306-14	11.8	23
166	Detecting asymmetry in the presence of symmetry with maximum likelihood three-dimensional reconstructions of viruses from electron microscope images. <i>IET Image Processing</i> , 2016 , 10, 624-629	1.7	3
165	Effect of the viral protease on the dynamics of bacteriophage HK97 maturation intermediates characterized by variance analysis of cryo EM particle ensembles. <i>Journal of Structural Biology</i> , 2016 , 193, 188-195	3.4	5

164	Integration of X-ray crystallography and electron cryo-microscopy in the analysis of virus structure and function. <i>Crystallography Reviews</i> , 2016 , 22, 102-127	1.3	2
163	Crystal Structure and Proteomics Analysis of Empty Virus-like Particles of Cowpea Mosaic Virus. <i>Structure</i> , 2016 , 24, 567-575	5.2	18
162	Virus particle dynamics derived from CryoEM studies. <i>Current Opinion in Virology</i> , 2016 , 18, 57-63	7.5	9
161	Binding and entry of a non-enveloped T=4 insect RNA virus is triggered by alkaline pH. <i>Virology</i> , 2016 , 498, 277-287	3.6	8
160	Data to knowledge: how to get meaning from your result. <i>IUCrJ</i> , 2015 , 2, 45-58	4.7	10
159	CoVaMa: Co-Variation Mapper for disequilibrium analysis of mutant loci in viral populations using next-generation sequence data. <i>Methods</i> , 2015 , 91, 40-47	4.6	14
158	ClickSeq: Fragmentation-Free Next-Generation Sequencing via Click Ligation of Adaptors to Stochastically Terminated 3SAzido cDNAs. <i>Journal of Molecular Biology</i> , 2015 , 427, 2610-6	6.5	41
157	Architecture of the Complex Formed by Large and Small Terminase Subunits from Bacteriophage P22. <i>Journal of Molecular Biology</i> , 2015 , 427, 3285-3299	6.5	17
156	Architecture of a dsDNA viral capsid in complex with its maturation protease. <i>Structure</i> , 2014 , 22, 230-7	5.2	30
155	Near-atomic resolution reconstructions using a mid-range electron microscope operated at 200 kV. <i>Journal of Structural Biology</i> , 2014 , 188, 183-7	3.4	13
154	Hibiscus chlorotic ringspot virus coat protein is essential for cell-to-cell and long-distance movement but not for viral RNA replication. <i>PLoS ONE</i> , 2014 , 9, e113347	3.7	7
153	Discovery of functional genomic motifs in viruses with ViReMa-a Virus Recombination Mapper-for analysis of next-generation sequencing data. <i>Nucleic Acids Research</i> , 2014 , 42, e11	20.1	47
152	Assembly and maturation of a T = 4 quasi-equivalent virus is guided by electrostatic and mechanical forces. <i>Viruses</i> , 2014 , 6, 3348-62	6.2	7
151	Nanoclusters: Virus-Templated Plasmonic Nanoclusters with Icosahedral Symmetry via Directed Self-Assembly (Small 15/2014). <i>Small</i> , 2014 , 10, 3196-3196	11	1
150	Dynamic and geometric analyses of Nudaurelia capensis Virus maturation reveal the energy landscape of particle transitions. <i>Journal of Molecular Recognition</i> , 2014 , 27, 230-7	2.6	12
149	Virus-templated plasmonic nanoclusters with icosahedral symmetry via directed self-assembly. <i>Small</i> , 2014 , 10, 3058-63	11	26
148	Single-particle EM reveals plasticity of interactions between the adenovirus penton base and integrin $\alpha 3$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8815-9	11.5	23
147	Studying 18 MDa virus assemblies with native mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4020-3	16.4	140

146	Virus assembly and maturation: auto-regulation through allosteric molecular switches. <i>Journal of Molecular Biology</i> , 2013 , 425, 1488-96	6.5	22
145	Dynamics in cryo EM reconstructions visualized with maximum-likelihood derived variance maps. <i>Journal of Structural Biology</i> , 2013 , 181, 195-206	3.4	34
144	Maximizing the potential of electron cryomicroscopy data collected using direct detectors. <i>Journal of Structural Biology</i> , 2013 , 184, 193-202	3.4	27
143	Confessions of an icosahedral virus crystallographer. <i>Microscopy (Oxford, England)</i> , 2013 , 62, 69-79	1.3	8
142	Atomic structure of the 75 MDa extremophile Sulfolobus turreted icosahedral virus determined by CryoEM and X-ray crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5504-9	11.5	61
141	Untersuchung von 18 MDa großen Viruspartikeln mit nativer Massenspektrometrie. <i>Angewandte Chemie</i> , 2013 , 125, 4112-4115	3.6	6
140	Identification of the DNA Binding Surface on the SIRV Capsid Protein. <i>FASEB Journal</i> , 2013 , 27, 1000.1	0.9	
139	Nucleic acid packaging in viruses. <i>Current Opinion in Structural Biology</i> , 2012 , 22, 65-71	8.1	65
138	Capsomer dynamics and stabilization in the T = 12 marine bacteriophage SIO-2 and its procapsid studied by CryoEM. <i>Structure</i> , 2012 , 20, 498-503	5.2	20
137	Nucleotide-resolution profiling of RNA recombination in the encapsidated genome of a eukaryotic RNA virus by next-generation sequencing. <i>Journal of Molecular Biology</i> , 2012 , 424, 257-69	6.5	16
136	Structure and cell biology of archaeal virus STIV. <i>Current Opinion in Virology</i> , 2012 , 2, 122-7	7.5	26
135	Maturation in action: CryoEM study of a viral capsid caught during expansion. <i>Structure</i> , 2012 , 20, 1384-90	9.2	19
134	Virus maturation. <i>Annual Review of Biophysics</i> , 2012 , 41, 473-96	21.1	64
133	Bacteriophage HK97 capsid assembly and maturation. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 726, 351-63	3.6	46
132	Host RNAs, including transposons, are encapsidated by a eukaryotic single-stranded RNA virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1907-12	11.5	85
131	Mechanics of bacteriophage maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2342-7	11.5	91
130	Dissecting quasi-equivalence in nonenveloped viruses: membrane disruption is promoted by lytic peptides released from subunit pentamers, not hexamers. <i>Journal of Virology</i> , 2012 , 86, 9976-82	6.6	21
129	In vivo virus structures: simultaneous classification, resolution enhancement, and noise reduction in whole-cell electron tomography. <i>Journal of Structural Biology</i> , 2011 , 174, 425-33	3.4	6

128	The Prohead-I structure of bacteriophage HK97: implications for scaffold-mediated control of particle assembly and maturation. <i>Journal of Molecular Biology</i> , 2011 , 408, 541-54	6.5	48
127	Three-dimensional structure of a viral genome-delivery portal vertex. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 597-603	17.6	117
126	Peering down the barrel of a bacteriophage portal: the genome packaging and release valve in p22. <i>Structure</i> , 2011 , 19, 496-502	5.2	87
125	Pass the jelly rolls. <i>Structure</i> , 2011 , 19, 904-6	5.2	11
124	Multiclass maximum-likelihood symmetry determination and motif reconstruction of 3-D helical objects from projection images for electron microscopy. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 1962-76	8.7	4
123	Critical salt bridges guide capsid assembly, stability, and maturation behavior in bacteriophage HK97. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 1752-63	7.6	26
122	The architecture and chemical stability of the archaeal Sulfolobus turreted icosahedral virus. <i>Journal of Virology</i> , 2010 , 84, 9575-83	6.6	27
121	Subunits fold at position-dependent rates during maturation of a eukaryotic RNA virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14111-5	11.5	15
120	Structure and function of a genetically engineered mimic of a nonenveloped virus entry intermediate. <i>Journal of Virology</i> , 2010 , 84, 4737-46	6.6	20
119	Flock house virus: a model system for understanding non-enveloped virus entry and membrane penetration. <i>Current Topics in Microbiology and Immunology</i> , 2010 , 343, 1-22	3.3	39
118	Balanced electrostatic and structural forces guide the large conformational change associated with maturation of T = 4 virus. <i>Biophysical Journal</i> , 2010 , 98, 1337-43	2.9	22
117	Steric and electrostatic complementarity in the assembly of two-dimensional virus arrays. <i>Langmuir</i> , 2010 , 26, 3498-505	4	14
116	HK97 maturation studied by crystallography and H/2H exchange reveals the structural basis for exothermic particle transitions. <i>Journal of Molecular Biology</i> , 2010 , 397, 560-74	6.5	26
115	All-atom multiscale simulation of cowpea chlorotic mottle virus capsid swelling. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11181-95	3.4	51
114	Virus particle maturation: insights into elegantly programmed nanomachines. <i>Current Opinion in Structural Biology</i> , 2010 , 20, 210-6	8.1	84
113	P22 coat protein structures reveal a novel mechanism for capsid maturation: stability without auxiliary proteins or chemical crosslinks. <i>Structure</i> , 2010 , 18, 390-401	5.2	127
112	Evolution in action: N and C termini of subunits in related T = 4 viruses exchange roles as molecular switches. <i>Structure</i> , 2010 , 18, 700-9	5.2	12
111	In vivo assembly of an archaeal virus studied with whole-cell electron cryotomography. <i>Structure</i> , 2010 , 18, 1579-86	5.2	51

110	VIPERdb2: an enhanced and web API enabled relational database for structural virology. <i>Nucleic Acids Research</i> , 2009 , 37, D436-42	20.1	317
109	Characterization of large conformational changes and autoproteolysis in the maturation of a T=4 virus capsid. <i>Journal of Virology</i> , 2009 , 83, 1126-34	6.6	18
108	Dissecting the functional domains of a nonenveloped virus membrane penetration peptide. <i>Journal of Virology</i> , 2009 , 83, 6929-33	6.6	24
107	Low endocytic pH and capsid protein autocleavage are critical components of Flock House virus cell entry. <i>Journal of Virology</i> , 2009 , 83, 8628-37	6.6	41
106	The P22 tail machine at subnanometer resolution reveals the architecture of an infection conduit. <i>Structure</i> , 2009 , 17, 789-99	5.2	57
105	An unexpected twist in viral capsid maturation. <i>Nature</i> , 2009 , 458, 646-50	50.4	110
104	Reciprocal space representations of helical objects and their projection images for helices constructed from motifs without spherical symmetry. <i>Ultramicroscopy</i> , 2009 , 109, 253-63	3.1	2
103	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. <i>Journal of Structural Biology</i> , 2009 , 167, 185-99	3.4	7
102	Dynamics and stability in maturation of a T=4 virus. <i>Journal of Molecular Biology</i> , 2009 , 392, 803-12	6.5	17
101	Bacteriophage lambda stabilization by auxiliary protein gpD: timing, location, and mechanism of attachment determined by cryo-EM. <i>Structure</i> , 2008 , 16, 1399-406	5.2	132
100	Virus capsid expansion driven by the capture of mobile surface loops. <i>Structure</i> , 2008 , 16, 1491-502	5.2	32
99	The combination of chemical fixation procedures with high pressure freezing and freeze substitution preserves highly labile tissue ultrastructure for electron tomography applications. <i>Journal of Structural Biology</i> , 2008 , 161, 359-71	3.4	90
98	Visualizing flock house virus infection in Drosophila cells with correlated fluorescence and electron microscopy. <i>Journal of Structural Biology</i> , 2008 , 161, 439-46	3.4	47
97	Multi-disciplinary studies of viruses: the role of structure in shaping the questions and answers. <i>Journal of Structural Biology</i> , 2008 , 163, 246-53	3.4	13
96	Assembly architecture and DNA binding of the bacteriophage P22 terminase small subunit. <i>Journal of Molecular Biology</i> , 2008 , 383, 494-501	6.5	41
95	Activation, exposure and penetration of virally encoded, membrane-active polypeptides during non-enveloped virus entry. <i>Current Protein and Peptide Science</i> , 2008 , 9, 16-27	2.8	53
94	Rescue of maturation-defective flock house virus infectivity with noninfectious, mature, viruslike particles. <i>Journal of Virology</i> , 2008 , 82, 2025-7	6.6	16
93	Long term storage of virus templated fluorescent materials for sensing applications. <i>Nanotechnology</i> , 2008 , 19, 105504	3.4	9

92	An optimal exposure strategy for cryoprotected virus crystals with lattice constants greater than 1000 Å. <i>Journal of Synchrotron Radiation</i> , 2008 , 15, 223-6	2.4	3
91	DNA packaging and delivery machines in tailed bacteriophages. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 237-43	8.1	101
90	Exact reduced-complexity maximum likelihood reconstruction of multiple 3-D objects from unlabeled unoriented 2-D projections and electron microscopy of viruses. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 2865-78	8.7	13
89	Macromolecular mass spectrometry and electron microscopy as complementary tools for investigation of the heterogeneity of bacteriophage portal assemblies. <i>Journal of Structural Biology</i> , 2007 , 157, 371-83	3.4	41
88	Capsid conformational sampling in HK97 maturation visualized by X-ray crystallography and cryo-EM. <i>Structure</i> , 2006 , 14, 1655-65	5.2	54
87	VIPERdb: a relational database for structural virology. <i>Nucleic Acids Research</i> , 2006 , 34, D386-9	20.1	108
86	Morphological changes in the T=3 capsid of Flock House virus during cell entry. <i>Journal of Virology</i> , 2006 , 80, 615-22	6.6	18
85	The structure of an infectious P22 virion shows the signal for headful DNA packaging. <i>Science</i> , 2006 , 312, 1791-5	33.3	248
84	Time-resolved molecular dynamics of bacteriophage HK97 capsid maturation interpreted by electron cryo-microscopy and X-ray crystallography. <i>Journal of Structural Biology</i> , 2006 , 153, 300-6	3.4	52
83	A cowpea mosaic virus nanoscaffold for multiplexed antibody conjugation: application as an immunoassay tracer. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1668-73	11.8	74
82	Generation and structural analysis of reactive empty particles derived from an icosahedral virus. <i>Chemistry and Biology</i> , 2006 , 13, 771-8		48
81	Cooperative reorganization of a 420 subunit virus capsid. <i>Journal of Molecular Biology</i> , 2005 , 352, 723-356.5		27
80	Folding and particle assembly are disrupted by single-point mutations near the autocatalytic cleavage site of Nudaurelia capensis omega virus capsid protein. <i>Protein Science</i> , 2005 , 14, 401-8	6.3	24
79	Maximum likelihood 3D reconstruction of multiple viruses from mixtures of cryo electron microscope images 2005 ,		1
78	Exploring icosahedral virus structures with VIPER. <i>Nature Reviews Microbiology</i> , 2005 , 3, 809-17	22.2	36
77	Three-dimensional structure of the bacteriophage P22 tail machine. <i>EMBO Journal</i> , 2005 , 24, 2087-95	13	70
76	Maturation of a tetravirus capsid alters the dynamic properties and creates a metastable complex. <i>Virology</i> , 2005 , 334, 17-27	3.6	36
75	An engineered virus as a scaffold for three-dimensional self-assembly on the nanoscale. <i>Small</i> , 2005 , 1, 702-6	11	105

74	Structure of an archaeal virus capsid protein reveals a common ancestry to eukaryotic and bacterial viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18944-9	11.5	158
73	The structure of a thermophilic archaeal virus shows a double-stranded DNA viral capsid type that spans all domains of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 7716-20	11.5	192
72	Heterologous expression of the modified coat protein of Cowpea chlorotic mottle bromovirus results in the assembly of protein cages with altered architectures and function. <i>Journal of General Virology</i> , 2004 , 85, 1049-1053	4.9	94
71	Small compounds targeted to subunit interfaces arrest maturation in a nonenveloped, icosahedral animal virus. <i>Journal of Virology</i> , 2004 , 78, 7208-16	6.6	7
70	A new dimension in structural biology: fully fledged high-pressure macromolecular crystallography. <i>High Pressure Research</i> , 2004 , 24, 173-182	1.6	2
69	The refined structure of Nudaurelia capensis omega virus reveals control elements for a T = 4 capsid maturation. <i>Virology</i> , 2004 , 318, 192-203	3.6	51
68	Virus structure analysis with synchrotron radiation: methods and results. <i>Journal of Synchrotron Radiation</i> , 2004 , 11, 89-92	2.4	
67	New addresses on an addressable virus nanoblock; uniquely reactive Lys residues on cowpea mosaic virus. <i>Chemistry and Biology</i> , 2004 , 11, 855-63		130
66	Cowpea Mosaic Virus as a Scaffold for 3-D Patterning of Gold Nanoparticles. <i>Nano Letters</i> , 2004 , 4, 867-870	17.5	190
65	Control of crosslinking by quaternary structure changes during bacteriophage HK97 maturation. <i>Molecular Cell</i> , 2004 , 14, 559-69	17.6	46
64	Evidence that a local refolding event triggers maturation of HK97 bacteriophage capsid. <i>Journal of Molecular Biology</i> , 2004 , 340, 419-33	6.5	35
63	Nodavirus endopeptidase 2004 , 197-201		1
62	Virus particle dynamics. <i>Advances in Protein Chemistry</i> , 2003 , 64, 197-218		42
61	Evidence for assembly-dependent folding of protein and RNA in an icosahedral virus. <i>Virology</i> , 2003 , 314, 26-33	3.6	19
60	Crystallization and preliminary analysis of a dsDNA bacteriophage capsid intermediate: Prohead II of HK97. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 2060-4		4
59	Structures of picorna-like plant viruses: implications and applications. <i>Advances in Virus Research</i> , 2003 , 62, 167-239	10.7	55
58	Fabrication of assembled virus nanostructures on templates of chemoselective linkers formed by scanning probe nanolithography. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6848-9	16.4	159
57	A statistical approach to computer processing of cryo-electron microscope images: virion classification and 3-D reconstruction. <i>Journal of Structural Biology</i> , 2003 , 144, 24-50	3.4	32

56	The refined structure of a protein catenane: the HK97 bacteriophage capsid at 3.44 Å resolution. <i>Journal of Molecular Biology</i> , 2003 , 334, 885-99	6.5	135
55	Pseudo-atomic models of swollen CCMV from cryo-electron microscopy data. <i>Journal of Structural Biology</i> , 2003 , 142, 356-63	3.4	34
54	Correlation of chemical reactivity of Nudaurelia capensis omega virus with a pH-induced conformational change. <i>Chemical Communications</i> , 2003 , 2770-1	5.8	16
53	Icosahedral Virus Particles as Addressable Nanoscale Building Blocks. <i>Angewandte Chemie</i> , 2002 , 114, 477-480	3.6	58
52	Icosahedral virus particles as addressable nanoscale building blocks. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 459-62	16.4	325
51	Natural supramolecular building blocks. Wild-type cowpea mosaic virus. <i>Chemistry and Biology</i> , 2002 , 9, 805-11		215
50	Natural supramolecular building blocks. Cysteine-added mutants of cowpea mosaic virus. <i>Chemistry and Biology</i> , 2002 , 9, 813-9		165
49	L-A virus at 3.4 Å resolution reveals particle architecture and mRNA decapping mechanism. <i>Nature Structural Biology</i> , 2002 , 9, 725-8		130
48	Protein-RNA interactions and virus stability as probed by the dynamics of tryptophan side chains. <i>Journal of Biological Chemistry</i> , 2002 , 277, 47596-602	5.4	21
47	Large-scale, pH-dependent, quaternary structure changes in an RNA virus capsid are reversible in the absence of subunit autoproteolysis. <i>Journal of Virology</i> , 2002 , 76, 9972-80	6.6	61
46	Complex Pattern Formation by Cowpea Mosaic Virus Nanoparticles. <i>Langmuir</i> , 2002 , 18, 308-310	4	28
45	Preliminary crystallographic analysis of the bacteriophage P22 portal protein. <i>Journal of Structural Biology</i> , 2002 , 139, 46-54	3.4	41
44	The structure of pariacoto virus reveals a dodecahedral cage of duplex RNA. <i>Nature Structural Biology</i> , 2001 , 8, 77-83		142
43	Virus Particle Explorer (VIPER), a website for virus capsid structures and their computational analyses. <i>Journal of Virology</i> , 2001 , 75, 11943-7	6.6	163
42	Analysis of rapid, large-scale protein quaternary structural changes: time-resolved X-ray solution scattering of Nudaurelia capensis omega virus (NomegaV) maturation. <i>Journal of Molecular Biology</i> , 2001 , 311, 803-14	6.5	62
41	Influence of three-dimensional structure on the immunogenicity of a peptide expressed on the surface of a plant virus. <i>Journal of Molecular Recognition</i> , 2000 , 13, 71-82	2.6	66
40	Structures of virus and virus-like particles. <i>Current Opinion in Structural Biology</i> , 2000 , 10, 229-35	8.1	81
39	3D domain swapping modulates the stability of members of an icosahedral virus group. <i>Structure</i> , 2000 , 8, 1095-103	5.2	72

- 38 Structural fingerprinting: subgrouping of comoviruses by structural studies of red clover mottle virus to 2.4-A resolution and comparisons with other comoviruses. *Journal of Virology*, **2000**, 74, 493-504^{6.6} 25
- 37 Virus maturation targets the protein capsid to concerted disassembly and unfolding. *Journal of Biological Chemistry*, **2000**, 275, 16037-43 5.4 27
- 36 Large conformational changes in the maturation of a simple RNA virus, nudaurelia capensis omega virus (NomegaV). *Journal of Molecular Biology*, **2000**, 299, 573-84 6.5 95
- 35 Maturation dynamics of a viral capsid: visualization of transitional intermediate states. *Cell*, **2000**, 100, 253-63 56.2 125
- 34 Topologically linked protein rings in the bacteriophage HK97 capsid. *Science*, **2000**, 289, 2129-33 33.3 553
- 33 A highly membrane-active peptide in Flock House virus: implications for the mechanism of nodavirus infection. *Chemistry and Biology*, **1999**, 6, 473-81 55
- 32 The crystal structure of cricket paralysis virus: the first view of a new virus family. *Nature Structural Biology*, **1999**, 6, 765-74 93
- 31 Crystallographically identical virus capsids display different properties in solution. *Nature Structural Biology*, **1999**, 6, 114-6 75
- 30 The refined crystal structure of cowpea mosaic virus at 2.8 A resolution. *Virology*, **1999**, 265, 20-34 3.6 227
- 29 An animal virus-derived peptide switches membrane morphology: possible relevance to nodaviral transfection processes. *Biochemistry*, **1999**, 38, 5328-36 3.2 65
- 28 The structure of tobacco ringspot virus: a link in the evolution of icosahedral capsids in the picornavirus superfamily. *Structure*, **1998**, 6, 157-71 5.2 57
- 27 The structure and function of nodavirus particles: a paradigm for understanding chemical biology. *Advances in Virus Research*, **1998**, 50, 381-446 10.7 93
- 26 Evidence of viral capsid dynamics using limited proteolysis and mass spectrometry. *Journal of Biological Chemistry*, **1998**, 273, 673-6 5.4 149
- 25 Particle polymorphism caused by deletion of a peptide molecular switch in a quasiequivalent icosahedral virus. *Journal of Virology*, **1998**, 72, 6024-33 6.6 82
- 24 Presentation of heterologous peptides on plant viruses: genetics, structure, and function. *Annual Review of Phytopathology*, **1997**, 35, 67-86 10.8 91
- 23 Quasi-equivalent viruses: a paradigm for protein assemblies. *Journal of Molecular Biology*, **1997**, 269, 665-75 6.5 248
- 22 The 2.8 A structure of a T = 4 animal virus and its implications for membrane translocation of RNA. *Journal of Molecular Biology*, **1996**, 261, 1-10 6.5 93
- 21 Low resolution meets high: towards a resolution continuum from cells to atoms. *Current Opinion in Structural Biology*, **1996**, 6, 585-94 8.1 83

20	Macromolecular assemblages Atomic-resolution structural biology of the cell: a progress report. <i>Current Opinion in Structural Biology</i> , 1996 , 6, 139-41	8.1	
19	Use of macromolecular assemblies as expression systems for peptides and synthetic vaccines. <i>Current Opinion in Structural Biology</i> , 1996 , 6, 176-82	8.1	69
18	Structure-based design of peptide presentation on a viral surface: the crystal structure of a plant/animal virus chimera at 2.8 A resolution. <i>Folding & Design</i> , 1996 , 1, 179-87		70
17	Assembly of the T = 4 Nudaurelia capensis omega virus capsid protein, post-translational cleavage, and specific encapsidation of its mRNA in a baculovirus expression system. <i>Virology</i> , 1995 , 207, 89-97	3.6	49
16	Structures of the native and swollen forms of cowpea chlorotic mottle virus determined by X-ray crystallography and cryo-electron microscopy. <i>Structure</i> , 1995 , 3, 63-78	5.2	589
15	Direct imaging of interactions between an icosahedral virus and conjugate F(ab) fragments by cryoelectron microscopy and X-ray crystallography. <i>Virology</i> , 1994 , 204, 777-88	3.6	35
14	Functional implications of quasi-equivalence in a T = 3 icosahedral animal virus established by cryo-electron microscopy and X-ray crystallography. <i>Structure</i> , 1994 , 2, 271-82	5.2	136
13	The refined three-dimensional structure of an insect virus at 2.8 A resolution. <i>Journal of Molecular Biology</i> , 1994 , 235, 565-86	6.5	77
12	Differences in pressure stability of the three components of cowpea mosaic virus: implications for virus assembly and disassembly. <i>Biochemistry</i> , 1994 , 33, 8339-46	3.2	44
11	Ordered duplex RNA controls capsid architecture in an icosahedral animal virus. <i>Nature</i> , 1993 , 361, 176-9	5.4	220
10	Identification of a Fab interaction footprint site on an icosahedral virus by cryoelectron microscopy and X-ray crystallography. <i>Nature</i> , 1992 , 355, 275-8	5.4	98
9	Sequence and analysis of the capsid protein of Nudaurelia capensis omega virus, an insect virus with T = 4 icosahedral symmetry. <i>Virology</i> , 1992 , 190, 806-14	3.6	42
8	Structure of a human common cold virus and functional relationship to other picornaviruses. <i>Nature</i> , 1985 , 317, 145-53	5.4	1307
7	The spherically averaged structures of cowpea mosaic virus components by X-ray solution scattering. <i>Virology</i> , 1983 , 127, 65-73	3.6	26
6	Crystallographic studies of cowpea mosaic virus by electron microscopy and x-ray diffraction. <i>Journal of Ultrastructure Research</i> , 1981 , 74, 223-31		19
5	Structure of southern bean mosaic virus at 2.8 A resolution. <i>Nature</i> , 1980 , 286, 33-9	5.4	386
4	Crystalline cowpea mosaic virus. <i>Virology</i> , 1980 , 101, 319-24	3.6	27
3	The structure of southern bean mosaic virus at 5 A resolution. <i>Virology</i> , 1978 , 85, 187-97	3.6	21

- 2 The structure of southern bean mosaic virus at 22.5 a resolution. *Virology*, **1976**, 75, 394-400 3.6 54
- 1 The packing of southern bean mosaic virus in various crystal cells. *Journal of Ultrastructure Research*, **1975**, 53, 306-18 28