

# Juha Huiskonen

## List of Publications by Year in descending order

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72  
papers

3,885  
citations

94433

37  
h-index

138484

58  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized reconstruction of subunits from electron cryomicroscopy images of macromolecular complexes. <i>Nature Communications</i> , 2015, 6, 8843.	12.8	225
2	Structure of the polycystic kidney disease TRP channel Polycystin-2 (PC2). <i>Nature Structural and Molecular Biology</i> , 2017, 24, 114-122.	8.2	155
3	Electron Cryotomography of Tula Hantavirus Suggests a Unique Assembly Paradigm for Enveloped Viruses. <i>Journal of Virology</i> , 2010, 84, 4889-4897.	3.4	124
4	Isolation and characterization of the positive-sense replicative intermediate of a negative-strand RNA virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4238-45.	7.1	118
5	Near-atomic structure of Japanese encephalitis virus reveals critical determinants of virulence and stability. <i>Nature Communications</i> , 2017, 8, 14.	12.8	117
6	Electron Cryo-Microscopy and Single-Particle Averaging of Rift Valley Fever Virus: Evidence for G <sub>N</sub> -G <sub>C</sub> Glycoprotein Heterodimers. <i>Journal of Virology</i> , 2009, 83, 3762-3769.	3.4	112
7	Structure of the Bacteriophage $\phi$ 6 Nucleocapsid Suggests a Mechanism for Sequential RNA Packaging. <i>Structure</i> , 2006, 14, 1039-1048.	3.3	108
8	Molecular insights into lipid-assisted Ca <sup>2+</sup> regulation of the TRP channel Polycystin-2. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 123-130.	8.2	105
9	Acidic pH-Induced Conformations and LAMP1 Binding of the Lassa Virus Glycoprotein Spike. <i>PLoS Pathogens</i> , 2016, 12, e1005418.	4.7	105
10	Eisosome proteins assemble into a membrane scaffold. <i>Journal of Cell Biology</i> , 2011, 195, 889-902.	5.2	103
11	The structural basis of lipid scrambling and inactivation in the endoplasmic reticulum scramblase TMEM16K. <i>Nature Communications</i> , 2019, 10, 3956.	12.8	101
12	Electron cryotomography of measles virus reveals how matrix protein coats the ribonucleocapsid within intact virions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18085-18090.	7.1	98
13	Insights into bunyavirus architecture from electron cryotomography of Uukuniemi virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2375-2379.	7.1	96
14	Structure of the Lassa virus glycan shield provides a model for immunological resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7320-7325.	7.1	95
15	Structure-based energetics of protein interfaces guides foot-and-mouth disease virus vaccine design. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 788-794.	8.2	89
16	Structure of a phleboviral envelope glycoprotein reveals a consolidated model of membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7154-7159.	7.1	87
17	Minor proteins, mobile arms and membrane-capsid interactions in the bacteriophage PRD1 capsid. <i>Nature Structural Biology</i> , 2002, 9, 756-763.	9.7	80
18	Shielding and activation of a viral membrane fusion protein. <i>Nature Communications</i> , 2018, 9, 349.	12.8	78

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19	Eisosome-driven plasma membrane organization is mediated by BAR domains. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 854-856.	8.2	77
20	Rules of engagement between $\beta$ 2 integrin and foot-and-mouth disease virus. <i>Nature Communications</i> , 2017, 8, 15408.	12.8	75
21	Nucleocapsid assembly in pneumoviruses is regulated by conformational switching of the N protein. <i>ELife</i> , 2016, 5, e12627.	6.0	72
22	Efficient production of Rift Valley fever virus-like particles: The antiviral protein MxA can inhibit primary transcription of bunyaviruses. <i>Virology</i> , 2009, 385, 400-408.	2.4	69
23	The PM2 virion has a novel organization with an internal membrane and pentameric receptor binding spikes. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 850-856.	8.2	60
24	Orthobunyavirus Ultrastructure and the Curious Tripodal Glycoprotein Spike. <i>PLoS Pathogens</i> , 2013, 9, e1003374.	4.7	59
25	Multiple liquid crystalline geometries of highly compacted nucleic acid in a dsRNA virus. <i>Nature</i> , 2019, 570, 252-256.	27.8	59
26	Membrane Proteins Modulate the Bilayer Curvature in the Bacterial Virus Bam35. <i>Structure</i> , 2005, 13, 1819-1828.	3.3	58
27	A Molecular-Level Account of the Antigenic Hantaviral Surface. <i>Cell Reports</i> , 2016, 15, 959-967.	6.4	57
28	Electron Cryomicroscopy Comparison of the Architectures of the Enveloped Bacteriophages $\phi$ 6 and $\phi$ 8. <i>Structure</i> , 2007, 15, 157-167.	3.3	56
29	The Structure of the Bacteriophage PRD1 Spike Sheds Light on the Evolution of Viral Capsid Architecture. <i>Molecular Cell</i> , 2005, 18, 161-170.	9.7	54
30	Cryo Electron Tomography of Herpes Simplex Virus during Axonal Transport and Secondary Envelopment in Primary Neurons. <i>PLoS Pathogens</i> , 2011, 7, e1002406.	4.7	52
31	The Hantavirus Surface Glycoprotein Lattice and Its Fusion Control Mechanism. <i>Cell</i> , 2020, 183, 442-456.e16.	28.9	52
32	The Structure of Herpesvirus Fusion Glycoprotein B-Bilayer Complex Reveals the Protein-Membrane and Lateral Protein-Protein Interaction. <i>Structure</i> , 2013, 21, 1396-1405.	3.3	47
33	Structure and Self-Assembly of the Calcium Binding Matrix Protein of Human Metapneumovirus. <i>Structure</i> , 2014, 22, 136-148.	3.3	44
34	Virus found in a boreal lake links ssDNA and dsDNA viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8378-8383.	7.1	44
35	Snapshot of virus evolution in hypersaline environments from the characterization of a membrane-containing icosahedral phage $\phi$ 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7079-7084.	7.1	42
36	Structure of a hexameric RNA packaging motor in a viral polymerase complex. <i>Journal of Structural Biology</i> , 2007, 158, 156-164.	2.8	41

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37	A Protective Monoclonal Antibody Targets a Site of Vulnerability on the Surface of Rift Valley Fever Virus. <i>Cell Reports</i> , 2018, 25, 3750-3758.e4.	6.4	41
38	Tale of two spikes in bacteriophage PRD1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6666-6671.	7.1	40
39	Drastic changes in conformational dynamics of the antiterminator M2-1 regulate transcription efficiency in <i>Pneumovirinae</i> . <i>ELife</i> , 2014, 3, e02674.	6.0	39
40	Low pH and Anionic Lipid-dependent Fusion of Uukuniemi Phlebovirus to Liposomes. <i>Journal of Biological Chemistry</i> , 2016, 291, 6412-6422.	3.4	38
41	Structural Transitions of the Conserved and Metastable Hantaviral Glycoprotein Envelope. <i>Journal of Virology</i> , 2017, 91, .	3.4	38
42	The structure of a prokaryotic viral envelope protein expands the landscape of membrane fusion proteins. <i>Nature Communications</i> , 2019, 10, 846.	12.8	37
43	Double-stranded RNA virus outer shell assembly by bona fide domain-swapping. <i>Nature Communications</i> , 2017, 8, 14814.	12.8	35
44	Classification and three-dimensional reconstruction of unevenly distributed or symmetry mismatched features of icosahedral particles. <i>Journal of Structural Biology</i> , 2005, 150, 332-339.	2.8	34
45	Membrane-containing viruses with icosahedrally symmetric capsids. <i>Current Opinion in Structural Biology</i> , 2007, 17, 229-236.	5.7	34
46	Localized reconstruction in Scipion expedites the analysis of symmetry mismatches in cryo-EM data. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 160, 43-52.	2.9	33
47	Assessment of Immunogenicity and Neutralisation Efficacy of Viral-Vectored Vaccines Against Chikungunya Virus. <i>Viruses</i> , 2019, 11, 322.	3.3	32
48	Unique architecture of thermophilic archaeal virus APBV1 and its genome packaging. <i>Nature Communications</i> , 2017, 8, 1436.	12.8	31
49	Image processing for cryogenic transmission electron microscopy of symmetry-mismatched complexes. <i>Bioscience Reports</i> , 2018, 38, .	2.4	31
50	Characterization of a potent and highly unusual minimally enhancing antibody directed against dengue virus. <i>Nature Immunology</i> , 2018, 19, 1248-1256.	14.5	31
51	Snapshots of actin and tubulin folding inside the TRiC chaperonin. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 420-429.	8.2	29
52	Crystal Structure of Venezuelan Hemorrhagic Fever Virus Fusion Glycoprotein Reveals a Class 1 Postfusion Architecture with Extensive Glycosylation. <i>Journal of Virology</i> , 2013, 87, 13070-13075.	3.4	26
53	Structural Plasticity of the Semliki Forest Virus Glycome upon Interspecies Transmission. <i>Journal of Proteome Research</i> , 2014, 13, 1702-1712.	3.7	26
54	Averaging of Viral Envelope Glycoprotein Spikes from Electron Cryotomography Reconstructions using Jsubtomo. <i>Journal of Visualized Experiments</i> , 2014, , e51714.	0.3	24

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55	Uukuniemi Phlebovirus Assembly and Secretion Leave a Functional Imprint on the Virion Glycome. <i>Journal of Virology</i> , 2014, 88, 10244-10251.	3.4	22
56	<i>Mycobacterium tuberculosis</i> CarD, an essential global transcriptional regulator forms amyloid-like fibrils. <i>Scientific Reports</i> , 2018, 8, 10124.	3.3	22
57	Structures of foot and mouth disease virus pentamers: Insight into capsid dissociation and unexpected pentamer reassociation. <i>PLoS Pathogens</i> , 2017, 13, e1006607.	4.7	21
58	Molecular rationale for antibody-mediated targeting of the hantavirus fusion glycoprotein. <i>ELife</i> , 2020, 9, .	6.0	19
59	Probing the ability of the coat and vertex protein of the membrane-containing bacteriophage PRD1 to display a meningococcal epitope. <i>Virology</i> , 2003, 310, 267-279.	2.4	17
60	Beyond structures of highly symmetric purified viral capsids by cryo-EM. <i>Current Opinion in Structural Biology</i> , 2018, 52, 25-31.	5.7	17
61	Assembly of complex viruses exemplified by a halophilic euryarchaeal virus. <i>Nature Communications</i> , 2019, 10, 1456.	12.8	17
62	Understanding the structure and role of DNA-PK in NHEJ: How X-ray diffraction and cryo-EM contribute in complementary ways. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 147, 26-32.	2.9	15
63	Structural Basis for a Neutralizing Antibody Response Elicited by a Recombinant Hantaan Virus Gn Immunogen. <i>MBio</i> , 2021, 12, e0253120.	4.1	13
64	Determination of N-linked Glycosylation in Viral Glycoproteins by Negative Ion Mass Spectrometry and Ion Mobility. <i>Methods in Molecular Biology</i> , 2015, 1331, 93-121.	0.9	11
65	Towards in cellulo virus crystallography. <i>Scientific Reports</i> , 2018, 8, 3771.	3.3	11
66	Structures of enveloped virions determined by cryogenic electron microscopy and tomography. <i>Advances in Virus Research</i> , 2019, 105, 35-71.	2.1	10
67	Assessment of Immunogenicity and Efficacy of a Zika Vaccine Using Modified Vaccinia Ankara Virus as Carriers. <i>Pathogens</i> , 2019, 8, 216.	2.8	9
68	Dual Role of a Viral Polymerase in Viral Genome Replication and Particle Self-Assembly. <i>MBio</i> , 2018, 9, .	4.1	8
69	Structural basis of rapid actin dynamics in the evolutionarily divergent <i>Leishmania</i> parasite. <i>Nature Communications</i> , 2022, 13, .	12.8	8
70	Structure of a Cell Entry Defective Human Adenovirus Provides Insights into Precursor Proteins and Capsid Maturation. <i>Journal of Molecular Biology</i> , 2022, 434, 167350.	4.2	4
71	Editorial overview: Virus structure and assembly: Virions “from structure and physics to design principles. <i>Current Opinion in Virology</i> , 2016, 18, vii-viii.	5.4	0
72	Studying membrane fusion at molecular resolution. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C187-C188.	0.3	0