

John A G Briggs

List of Publications by Citations

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129
papers

9,986
citations

56
h-index

99
g-index

137
ext. papers

12,943
ext. citations

13.9
avg, IF

6.4
L-index

#	Paper	IF	Citations
129	Structures and distributions of SARS-CoV-2 spike proteins on intact virions. <i>Nature</i> , 2020 , 588, 498-502	50.4	461
128	The stoichiometry of Gag protein in HIV-1. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 672-5	17.6	406
127	SARS-CoV-2 evolution during treatment of chronic infection. <i>Nature</i> , 2021 , 592, 277-282	50.4	390
126	Structural organization of authentic, mature HIV-1 virions and cores. <i>EMBO Journal</i> , 2003 , 22, 1707-15	13	344
125	Correlated fluorescence and 3D electron microscopy with high sensitivity and spatial precision. <i>Journal of Cell Biology</i> , 2011 , 192, 111-9	7.3	342
124	Nuclear pore scaffold structure analyzed by super-resolution microscopy and particle averaging. <i>Science</i> , 2013 , 341, 655-8	33.3	307
123	Pathogenic bacteria attach to human fibronectin through a tandem beta-zipper. <i>Nature</i> , 2003 , 423, 177-81	50.4	301
122	Implementation of a cryo-electron tomography tilt-scheme optimized for high resolution subtomogram averaging. <i>Journal of Structural Biology</i> , 2017 , 197, 191-198	3.4	272
121	Plasma membrane reshaping during endocytosis is revealed by time-resolved electron tomography. <i>Cell</i> , 2012 , 150, 508-20	56.2	257
120	An atomic model of HIV-1 capsid-SP1 reveals structures regulating assembly and maturation. <i>Science</i> , 2016 , 353, 506-8	33.3	250
119	Molecular architecture of the inner ring scaffold of the human nuclear pore complex. <i>Science</i> , 2016 , 352, 363-5	33.3	216
118	Structure of the immature HIV-1 capsid in intact virus particles at 8.8 Å resolution. <i>Nature</i> , 2015 , 517, 505-8	50.4	212
117	Minimal tags for rapid dual-color live-cell labeling and super-resolution microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2245-9	16.4	210
116	The Neuronal Gene Arc Encodes a Repurposed Retrotransposon Gag Protein that Mediates Intercellular RNA Transfer. <i>Cell</i> , 2018 , 172, 275-288.e18	56.2	203
115	Cryo-electron tomographic structure of an immunodeficiency virus envelope complex in situ. <i>PLoS Pathogens</i> , 2006 , 2, e83	7.6	184
114	Structural biology in situ--the potential of subtomogram averaging. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 261-7	8.1	181
113	Three-dimensional analysis of budding sites and released virus suggests a revised model for HIV-1 morphogenesis. <i>Cell Host and Microbe</i> , 2008 , 4, 592-9	23.4	172

112	The mechanism of HIV-1 core assembly: insights from three-dimensional reconstructions of authentic virions. <i>Structure</i> , 2006 , 14, 15-20	5.2	171
111	Virological synapse-mediated spread of human immunodeficiency virus type 1 between T cells is sensitive to entry inhibition. <i>Journal of Virology</i> , 2010 , 84, 3516-27	6.6	165
110	ENDOCYTOSIS. Endocytic sites mature by continuous bending and remodeling of the clathrin coat. <i>Science</i> , 2015 , 348, 1369-72	33.3	164
109	Structural dissection of Ebola virus and its assembly determinants using cryo-electron tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4275-80	11.5	157
108	A saposin-lipoprotein nanoparticle system for membrane proteins. <i>Nature Methods</i> , 2016 , 13, 345-51	21.6	152
107	The structure and flexibility of conical HIV-1 capsids determined within intact virions. <i>Science</i> , 2016 , 354, 1434-1437	33.3	149
106	Efficient 3D-CTF correction for cryo-electron tomography using NovaCTF improves subtomogram averaging resolution to 3.4Å. <i>Journal of Structural Biology</i> , 2017 , 199, 187-195	3.4	139
105	Structure of the immature retroviral capsid at 8 Å resolution by cryo-electron microscopy. <i>Nature</i> , 2012 , 487, 385-9	50.4	134
104	The molecular architecture of HIV. <i>Journal of Molecular Biology</i> , 2011 , 410, 491-500	6.5	130
103	A thermostable, closed SARS-CoV-2 spike protein trimer. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 934-941	17.6	128
102	Vesicle coats: structure, function, and general principles of assembly. <i>Trends in Cell Biology</i> , 2013 , 23, 279-88	18.3	125
101	Computational model of membrane fission catalyzed by ESCRT-III. <i>PLoS Computational Biology</i> , 2009 , 5, e1000575	5	121
100	VESICULAR TRANSPORT. A structure of the COPI coat and the role of coat proteins in membrane vesicle assembly. <i>Science</i> , 2015 , 349, 195-8	33.3	116
99	Structure and assembly of the Ebola virus nucleocapsid. <i>Nature</i> , 2017 , 551, 394-397	50.4	114
98	Double-labelled HIV-1 particles for study of virus-cell interaction. <i>Virology</i> , 2007 , 360, 92-104	3.6	106
97	Do lipid rafts mediate virus assembly and pseudotyping?. <i>Journal of General Virology</i> , 2003 , 84, 757-768	4.9	105
96	Structure of the membrane-assembled retromer coat determined by cryo-electron tomography. <i>Nature</i> , 2018 , 561, 561-564	50.4	104
95	Precise, correlated fluorescence microscopy and electron tomography of lowicryl sections using fluorescent fiducial markers. <i>Methods in Cell Biology</i> , 2012 , 111, 235-57	1.8	101

94	Cryo-electron tomography of Marburg virus particles and their morphogenesis within infected cells. <i>PLoS Biology</i> , 2011 , 9, e1001196	9.7	95
93	Altered TMPRSS2 usage by SARS-CoV-2 Omicron impacts tropism and fusogenicity.. <i>Nature</i> , 2022 ,	50.4	95
92	The structure of the COPI coat determined within the cell. <i>ELife</i> , 2017 , 6,	8.9	94
91	Correlated cryo-fluorescence and cryo-electron microscopy with high spatial precision and improved sensitivity. <i>Ultramicroscopy</i> , 2014 , 143, 24-32	3.1	90
90	Deciphering the Origin and Evolution of Hepatitis B Viruses by Means of a Family of Non-enveloped Fish Viruses. <i>Cell Host and Microbe</i> , 2017 , 22, 387-399.e6	23.4	90
89	Cryo electron tomography of native HIV-1 budding sites. <i>PLoS Pathogens</i> , 2010 , 6, e1001173	7.6	90
88	Structural analysis of HIV-1 maturation using cryo-electron tomography. <i>PLoS Pathogens</i> , 2010 , 6, e1001175	7.15	86
87	The structure of the COPII transport-vesicle coat assembled on membranes. <i>ELife</i> , 2013 , 2, e00951	8.9	84
86	Phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2)-dependent oligomerization of fibroblast growth factor 2 (FGF2) triggers the formation of a lipidic membrane pore implicated in unconventional secretion. <i>Journal of Biological Chemistry</i> , 2012 , 287, 27659-69	5.4	80
85	New hardware and workflows for semi-automated correlative cryo-fluorescence and cryo-electron microscopy/tomography. <i>Journal of Structural Biology</i> , 2017 , 197, 83-93	3.4	79
84	Cryo-electron microscopy reveals conserved and divergent features of gag packing in immature particles of Rous sarcoma virus and human immunodeficiency virus. <i>Journal of Molecular Biology</i> , 2006 , 355, 157-68	6.5	79
83	Determination of protein structure at 8.5Å resolution using cryo-electron tomography and sub-tomogram averaging. <i>Journal of Structural Biology</i> , 2013 , 184, 394-400	3.4	77
82	Complexin arrests a pool of docked vesicles for fast Ca ²⁺ -dependent release. <i>EMBO Journal</i> , 2012 , 31, 3270-81	13	72
81	Contrast transfer function correction applied to cryo-electron tomography and sub-tomogram averaging. <i>Journal of Structural Biology</i> , 2009 , 168, 305-12	3.4	70
80	Cryo-electron microscopy of tubular arrays of HIV-1 Gag resolves structures essential for immature virus assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8233-8	11.5	69
79	Tubular endocytosis drives remodelling of the apical surface during epithelial morphogenesis in <i>Drosophila</i> . <i>Nature Communications</i> , 2013 , 4, 2244	17.4	68
78	Multibudded tubules formed by COPII on artificial liposomes. <i>Scientific Reports</i> , 2011 , 1, 17	4.9	65
77	The structures of COPI-coated vesicles reveal alternate coatomer conformations and interactions. <i>Science</i> , 2012 , 336, 1451-4	33.3	62

76	Structure of the COPI coat reveals that the Arf1 GTPase occupies two contrasting molecular environments. <i>ELife</i> , 2017 , 6,	8.9	61
75	Structure of the hexagonal surface layer on <i>Caulobacter crescentus</i> cells. <i>Nature Microbiology</i> , 2017 , 2, 17059	26.6	60
74	Structural Analysis of the Roles of Influenza A Virus Membrane-Associated Proteins in Assembly and Morphology. <i>Journal of Virology</i> , 2015 , 89, 8957-66	6.6	55
73	Coatmer and dimeric ADP ribosylation factor 1 promote distinct steps in membrane scission. <i>Journal of Cell Biology</i> , 2011 , 194, 765-77	7.3	52
72	An organized co-assembly of clathrin adaptors is essential for endocytosis. <i>Developmental Cell</i> , 2015 , 33, 150-62	10.2	51
71	Correlative light and electron microscopy methods for the study of virus-cell interactions. <i>FEBS Letters</i> , 2016 , 590, 1877-95	3.8	51
70	Conserved and variable features of Gag structure and arrangement in immature retrovirus particles. <i>Journal of Virology</i> , 2010 , 84, 11729-36	6.6	51
69	Electron tomography reveals the steps in filovirus budding. <i>PLoS Pathogens</i> , 2010 , 6, e1000875	7.6	47
68	The Structure of Immature Virus-Like Rous Sarcoma Virus Gag Particles Reveals a Structural Role for the p10 Domain in Assembly. <i>Journal of Virology</i> , 2015 , 89, 10294-302	6.6	46
67	Schnelle, zweifarbige Proteinmarkierung an lebenden Zellen für die hochauflösende Mikroskopie. <i>Angewandte Chemie</i> , 2014 , 126, 2278-2282	3.6	45
66	Retrovirus maturation-an extraordinary structural transformation. <i>Current Opinion in Virology</i> , 2016 , 18, 27-35	7.5	44
65	Structure and architecture of immature and mature murine leukemia virus capsids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E11751-E11760	11.5	44
64	Immature HIV-1 lattice assembly dynamics are regulated by scaffolding from nucleic acid and the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10056-E10065	11.5	40
63	Multiple site-specific infrared dichroism of CD3-zeta, a transmembrane helix bundle. <i>Journal of Molecular Biology</i> , 2002 , 316, 365-74	6.5	40
62	Combined Point-of-Care Nucleic Acid and Antibody Testing for SARS-CoV-2 Following Emergence of D614G Spike Variant. <i>Cell Reports Medicine</i> , 2020 , 1, 100099	18	40
61	SNARE and regulatory proteins induce local membrane protrusions to prime docked vesicles for fast calcium-triggered fusion. <i>EMBO Reports</i> , 2014 , 15, 308-14	6.5	39
60	High-resolution structures of HIV-1 Gag cleavage mutants determine structural switch for virus maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E9401-E9410	11.5	37
59	The contributions of the actin machinery to endocytic membrane bending and vesicle formation. <i>Molecular Biology of the Cell</i> , 2018 , 29, 1346-1358	3.5	36

58	Role of the SP2 domain and its proteolytic cleavage in HIV-1 structural maturation and infectivity. <i>Journal of Virology</i> , 2012 , 86, 13708-16	6.6	35
57	Convergence of experimental, computational and evolutionary approaches predicts the presence of a tetrameric form for CD3-zeta. <i>Journal of Molecular Biology</i> , 2002 , 316, 375-84	6.5	33
56	Classification and three-dimensional reconstruction of unevenly distributed or symmetry mismatched features of icosahedral particles. <i>Journal of Structural Biology</i> , 2005 , 150, 332-9	3.4	31
55	Architecture of the AP2/clathrin coat on the membranes of clathrin-coated vesicles. <i>Science Advances</i> , 2020 , 6, eaba8381	14.3	25
54	HIV-1-cellular interactions analyzed by single virus tracing. <i>European Biophysics Journal</i> , 2008 , 37, 1291-304	3.0	24
53	Induced maturation of human immunodeficiency virus. <i>Journal of Virology</i> , 2014 , 88, 13722-31	6.6	23
52	Contribution of energy values to the analysis of global searching molecular dynamics simulations of transmembrane helical bundles. <i>Biophysical Journal</i> , 2002 , 82, 3063-71	2.9	23
51	Structures of virus-like capsids formed by the Drosophila neuronal Arc proteins. <i>Nature Neuroscience</i> , 2020 , 23, 172-175	25.5	22
50	In vitro assembly of virus-like particles of a gammaretrovirus, the murine leukemia virus XMRV. <i>Journal of Virology</i> , 2012 , 86, 1297-306	6.6	21
49	Structure of the Ty3/Gypsy retrotransposon capsid and the evolution of retroviruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10048-10057	11.5	20
48	Architecture and mechanism of metazoan retromer:SNX3 tubular coat assembly. <i>Science Advances</i> , 2021 , 7,	14.3	20
47	Higher-order assemblies of oligomeric cargo receptor complexes form the membrane scaffold of the Cvt vesicle. <i>EMBO Reports</i> , 2016 , 17, 1044-60	6.5	20
46	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly. <i>PLoS Pathogens</i> , 2020 , 16, e1008277	7.6	19
45	Cryoelectron microscopy of mouse mammary tumor virus. <i>Journal of Virology</i> , 2004 , 78, 2606-8	6.6	18
44	The nucleocapsid domain of Gag is dispensable for actin incorporation into HIV-1 and for association of viral budding sites with cortical F-actin. <i>Journal of Virology</i> , 2014 , 88, 7893-903	6.6	16
43	The HIV mutation browser: a resource for human immunodeficiency virus mutagenesis and polymorphism data. <i>PLoS Computational Biology</i> , 2014 , 10, e1003951	5	14
42	The native structure of the assembled matrix protein 1 of influenza A virus. <i>Nature</i> , 2020 , 587, 495-498	50.4	14
41	RNA and Nucleocapsid Are Dispensable for Mature HIV-1 Capsid Assembly. <i>Journal of Virology</i> , 2015 , 89, 9739-47	6.6	13

40	High-throughput ultrastructure screening using electron microscopy and fluorescent barcoding. <i>Journal of Cell Biology</i> , 2019 , 218, 2797-2811	7.3	13
39	Towards Internationally standardised humoral Immune Correlates of Protection from SARS-CoV-2 infection and COVID-19 disease		10
38	Maturation of the matrix and viral membrane of HIV-1. <i>Science</i> , 2021 , 373, 700-704	33.3	10
37	Insights from reconstitution reactions of COPII vesicle formation using pure components and low mechanical perturbation. <i>Biological Chemistry</i> , 2014 , 395, 801-12	4.5	9
36	Ebola and Marburg virus matrix layers are locally ordered assemblies of VP40 dimers. <i>ELife</i> , 2020 , 9,	8.9	9
35	Complexin Suppresses Spontaneous Exocytosis by Capturing the Membrane-Proximal Regions of VAMP2 and SNAP25. <i>Cell Reports</i> , 2020 , 32, 107926	10.6	9
34	A stable immature lattice packages IP for HIV capsid maturation. <i>Science Advances</i> , 2021 , 7,	14.3	9
33	Immature HIV-1 assembles from Gag dimers leaving partial hexamers at lattice edges as potential substrates for proteolytic maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
32	Variable internal flexibility characterizes the helical capsid formed by agrobacterium VirE2 protein on single-stranded DNA. <i>Structure</i> , 2013 , 21, 1158-67	5.2	8
31	Structural basis for VPS34 kinase activation by Rab1 and Rab5 on membranes. <i>Nature Communications</i> , 2021 , 12, 1564	17.4	8
30	Nucleic Acid Binding by Mason-Pfizer Monkey Virus CA Promotes Virus Assembly and Genome Packaging. <i>Journal of Virology</i> , 2016 , 90, 4593-4603	6.6	8
29	Computational identification of novel amino-acid interactions in HIV Gag via correlated evolution. <i>PLoS ONE</i> , 2012 , 7, e42468	3.7	7
28	SARS-CoV-2 Spike Protein Stabilized in the Closed State Induces Potent Neutralizing Responses. <i>Journal of Virology</i> , 2021 , 95, e0020321	6.6	7
27	Fluorescence-Based Detection of Membrane Fusion State on a Cryo-EM Grid using Correlated Cryo-Fluorescence and Cryo-Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 942-949	0.5	6
26	Imaging cellular structure across scales with correlated light, superresolution, and electron microscopy. <i>Molecular Biology of the Cell</i> , 2012 , 23, 979-980	3.5	5
25	Architecture of the AP2:clathrin coat on the membranes of clathrin-coated vesicles		3
24	Architecture and mechanism of metazoan retromer:SNX3 tubular coat assembly		3
23	Structures and function of locked conformations of SARS-CoV-2 spike		3

22	Cooperative multivalent receptor binding promotes exposure of the SARS-CoV-2 fusion machinery core.. <i>Nature Communications</i> , 2022 , 13, 1002	17.4	3
21	Directing traffic into the future. <i>Developmental Cell</i> , 2013 , 27, 480-4	10.2	2
20	The native structure of the full-length, assembled influenza A virus matrix protein, M1		2
19	The contributions of the actin machinery to endocytic membrane bending and vesicle formation		2
18	Critical Care Workers Have Lower Seroprevalence of SARS-CoV-2 IgG Compared with Non-patient Facing Staff in First Wave of COVID19. <i>The Journal of Critical Care Medicine</i> , 2021 , 7, 199-210	1.2	2
17	A Bayesian approach to single-particle electron cryo-tomography in RELION-4.0		2
16	Strain and rupture of HIV-1 capsids during uncoating.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117781119	11.5	2
15	Maturation of the matrix and viral membrane of HIV-1		1
14	Arrangements of proteins at reconstituted synaptic vesicle fusion sites depend on membrane separation. <i>FEBS Letters</i> , 2020 , 594, 3450-3463	3.8	1
13	Cooperative multivalent receptor binding promotes exposure of the SARS-CoV-2 fusion machinery core 2021 ,		1
12	SARS-CoV-2 spike protein arrested in the closed state induces potent neutralizing responses		1
11	Structural Biology of HIV Assembly 2013 , 1-22		1
10	FCHO controls AP2 β initiating role in endocytosis through a PtdIns(4,5)P-dependent switch.. <i>Science Advances</i> , 2022 , 8, eabn2018	14.3	1
9	New structural insights into the multifunctional influenza A matrix protein 1. <i>FEBS Letters</i> , 2021 , 595, 2535-2543	3.8	0
8	Automated cryo electron tomography and sub-tomogram averaging with the FEI Volta phase plate. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1833-1834	0.5	
7	Determining the Patchwork Lattice of Ebola and Marburg Virus Matrix Layers Using Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1884-1884	0.5	
6	Bridging length-scales from molecules to tissues using mouse genetics, cryoCLEM, and cryoET. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2574-2576	0.5	
5	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly 2020 , 16, e1008277		

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