

John A G Briggs

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

14,985
citations

20759

60
h-index

23472

111
g-index

137
all docs

137
docs citations

137
times ranked

16396
citing authors

#	ARTICLE	IF	CITATIONS
1	Altered TMPRSS2 usage by SARS-CoV-2 Omicron impacts infectivity and fusogenicity. <i>Nature</i> , 2022, 603, 706-714.	13.7	756
2	Cooperative multivalent receptor binding promotes exposure of the SARS-CoV-2 fusion machinery core. <i>Nature Communications</i> , 2022, 13, 1002.	5.8	30
3	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.	3.3	21
4	FCHO controls AP2's initiating role in endocytosis through a PtdIns(4,5)P α -dependent switch. <i>Science Advances</i> , 2022, 8, eabn2018.	4.7	14
5	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, .	3.3	40
6	SARS-CoV-2 evolution during treatment of chronic infection. <i>Nature</i> , 2021, 592, 277-282.	13.7	802
7	Structural basis for VPS34 kinase activation by Rab1 and Rab5 on membranes. <i>Nature Communications</i> , 2021, 12, 1564.	5.8	50
8	A stable immature lattice packages IP α for HIV capsid maturation. <i>Science Advances</i> , 2021, 7, .	4.7	44
9	Architecture and mechanism of metazoan retromer:SNX3 tubular coat assembly. <i>Science Advances</i> , 2021, 7, .	4.7	44
10	SARS-CoV-2 Spike Protein Stabilized in the Closed State Induces Potent Neutralizing Responses. <i>Journal of Virology</i> , 2021, 95, e0020321.	1.5	35
11	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.	0.3	4
12	Determining the Patchwork Lattice of Ebola and Marburg Virus Matrix Layers Using Cryo-Electron Tomography. <i>Microscopy and Microanalysis</i> , 2021, 27, 1884-1884.	0.2	0
13	Bridging length-scales from molecules to tissues using mouse genetics, cryoCLEM, and cryoET. <i>Microscopy and Microanalysis</i> , 2021, 27, 2574-2576.	0.2	0
14	Maturation of the matrix and viral membrane of HIV-1. <i>Science</i> , 2021, 373, 700-704.	6.0	60
15	New structural insights into the multifunctional influenza A matrix protein 1. <i>FEBS Letters</i> , 2021, 595, 2535-2543.	1.3	6
16	Structures of virus-like capsids formed by the <i>Drosophila</i> neuronal Arc proteins. <i>Nature Neuroscience</i> , 2020, 23, 172-175.	7.1	46
17	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.	3.3	61
18	Architecture of the AP2/clathrin coat on the membranes of clathrin-coated vesicles. <i>Science Advances</i> , 2020, 6, eaba8381.	4.7	75

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19	A thermostable, closed SARS-CoV-2 spike protein trimer. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 934-941.	3.6	261
20	Complexin Suppresses Spontaneous Exocytosis by Capturing the Membrane-Proximal Regions of VAMP2 and SNAP25. <i>Cell Reports</i> , 2020, 32, 107926.	2.9	33
21	Arrangements of proteins at reconstituted synaptic vesicle fusion sites depend on membrane separation. <i>FEBS Letters</i> , 2020, 594, 3450-3463.	1.3	8
22	The native structure of the assembled matrix protein 1 of influenza A virus. <i>Nature</i> , 2020, 587, 495-498.	13.7	53
23	Structures and distributions of SARS-CoV-2 spike proteins on intact virions. <i>Nature</i> , 2020, 588, 498-502.	13.7	918
24	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly. <i>PLoS Pathogens</i> , 2020, 16, e1008277.	2.1	44
25	Ebola and Marburg virus matrix layers are locally ordered assemblies of VP40 dimers. <i>ELife</i> , 2020, 9, .	2.8	41
26	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly. , 2020, 16, e1008277.		0
27	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly. , 2020, 16, e1008277.		0
28	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly. , 2020, 16, e1008277.		0
29	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly. , 2020, 16, e1008277.		0
30	Structures of immature EIAV Gag lattices reveal a conserved role for IP6 in lentivirus assembly. , 2020, 16, e1008277.		0
31	High-throughput ultrastructure screening using electron microscopy and fluorescent barcoding. <i>Journal of Cell Biology</i> , 2019, 218, 2797-2811.	2.3	18
32	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.	0.2	11
33	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.	3.3	39
34	The Neuronal Gene Arc Encodes a Repurposed Retrotransposon Gag Protein that Mediates Intercellular RNA Transfer. <i>Cell</i> , 2018, 172, 275-288.e18.	13.5	382
35	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.	3.3	92
36	Structure of the membrane-assembled retromer coat determined by cryo-electron tomography. <i>Nature</i> , 2018, 561, 561-564.	13.7	169

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37	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.	3.3	65
38	The contributions of the actin machinery to endocytic membrane bending and vesicle formation. <i>Molecular Biology of the Cell</i> , 2018, 29, 1346-1358.	0.9	52
39	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.	1.3	107
40	Structure of the hexagonal surface layer on <i>Caulobacter crescentus</i> cells. <i>Nature Microbiology</i> , 2017, 2, 17059.	5.9	85
41	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.	5.1	134
42	Efficient 3D-CTF correction for cryo-electron tomography using NovaCTF improves subtomogram averaging resolution to 3.4 Å.... <i>Journal of Structural Biology</i> , 2017, 199, 187-195.	1.3	219
43	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.	3.3	86
44	Structure and assembly of the Ebola virus nucleocapsid. <i>Nature</i> , 2017, 551, 394-397.	13.7	185
45	Implementation of a cryo-electron tomography tilt-scheme optimized for high resolution subtomogram averaging. <i>Journal of Structural Biology</i> , 2017, 197, 191-198.	1.3	556
46	The structure of the COPI coat determined within the cell. <i>ELife</i> , 2017, 6, .	2.8	152
47	9Å... structure of the COPI coat reveals that the Arf1 GTPase occupies two contrasting molecular environments. <i>ELife</i> , 2017, 6, .	2.8	103
48	The structure and flexibility of conical HIV-1 capsids determined within intact virions. <i>Science</i> , 2016, 354, 1434-1437.	6.0	229
49	Higher-order assemblies of oligomeric cargo receptor complexes form the membrane scaffold of the Cvt vesicle. <i>EMBO Reports</i> , 2016, 17, 1044-1060.	2.0	26
50	Molecular architecture of the inner ring scaffold of the human nuclear pore complex. <i>Science</i> , 2016, 352, 363-365.	6.0	284
51	Nucleic Acid Binding by Mason-Pfizer Monkey Virus CA Promotes Virus Assembly and Genome Packaging. <i>Journal of Virology</i> , 2016, 90, 4593-4603.	1.5	13
52	An atomic model of HIV-1 capsid-SP1 reveals structures regulating assembly and maturation. <i>Science</i> , 2016, 353, 506-508.	6.0	375
53	Correlative light and electron microscopy methods for the study of virus-cell interactions. <i>FEBS Letters</i> , 2016, 590, 1877-1895.	1.3	71
54	Retrovirus maturation-an extraordinary structural transformation. <i>Current Opinion in Virology</i> , 2016, 18, 27-35.	2.6	64

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55	A saposin-lipoprotein nanoparticle system for membrane proteins. <i>Nature Methods</i> , 2016, 13, 345-351.	9.0	209
56	Automated cryo electron tomography and sub-tomogram averaging with the FEI Volta phase plate. <i>Microscopy and Microanalysis</i> , 2015, 21, 1833-1834.	0.2	0
57	A structure of the COPI coat and the role of coat proteins in membrane vesicle assembly. <i>Science</i> , 2015, 349, 195-198.	6.0	159
58	Structural Analysis of the Roles of Influenza A Virus Membrane-Associated Proteins in Assembly and Morphology. <i>Journal of Virology</i> , 2015, 89, 8957-8966.	1.5	78
59	RNA and Nucleocapsid Are Dispensable for Mature HIV-1 Capsid Assembly. <i>Journal of Virology</i> , 2015, 89, 9739-9747.	1.5	17
60	Endocytic sites mature by continuous bending and remodeling of the clathrin coat. <i>Science</i> , 2015, 348, 1369-1372.	6.0	216
61	An Organized Co-assembly of Clathrin Adaptors Is Essential for Endocytosis. <i>Developmental Cell</i> , 2015, 33, 150-162.	3.1	75
62	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, 10294-10302.	1.5	61
63	Structure of the immature HIV-1 capsid in intact virus particles at 8.8Å... resolution. <i>Nature</i> , 2015, 517, 505-508.	13.7	277
64	Insights from reconstitution reactions of COPII vesicle formation using pure components and low mechanical perturbation. <i>Biological Chemistry</i> , 2014, 395, 801-812.	1.2	13
65	The HIV Mutation Browser: A Resource for Human Immunodeficiency Virus Mutagenesis and Polymorphism Data. <i>PLoS Computational Biology</i> , 2014, 10, e1003951.	1.5	25
66	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, 7893-7903.	1.5	23
67	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, 8233-8238.	3.3	98
68	Minimal Tags for Rapid Dual-Color Live-Cell Labeling and Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2245-2249.	7.2	254
69	Correlated cryo-fluorescence and cryo-electron microscopy with high spatial precision and improved sensitivity. <i>Ultramicroscopy</i> , 2014, 143, 24-32.	0.8	116
70	Induced Maturation of Human Immunodeficiency Virus. <i>Journal of Virology</i> , 2014, 88, 13722-13731.	1.5	29
71	<scp>SNARE</scp> and regulatory proteins induce local membrane protrusions to prime docked vesicles for fast calcium-triggered fusion. <i>EMBO Reports</i> , 2014, 15, 308-314.	2.0	46
72	Schnelle, zweifarbige Proteinmarkierung an lebenden Zellen für die hochauflösende Mikroskopie. <i>Angewandte Chemie</i> , 2014, 126, 2278-2282.	1.6	51

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73	Determination of protein structure at 8.5 Å... resolution using cryo-electron tomography and sub-tomogram averaging. <i>Journal of Structural Biology</i> , 2013, 184, 394-400.	1.3	85
74	Structural biology in situ—the potential of subtomogram averaging. <i>Current Opinion in Structural Biology</i> , 2013, 23, 261-267.	2.6	218
75	Variable Internal Flexibility Characterizes the Helical Capsid Formed by <i>Agrobacterium</i> VirE2 Protein on Single-Stranded DNA. <i>Structure</i> , 2013, 21, 1158-1167.	1.6	8
76	Directing Traffic into the Future. <i>Developmental Cell</i> , 2013, 27, 480-484.	3.1	2
77	Vesicle coats: structure, function, and general principles of assembly. <i>Trends in Cell Biology</i> , 2013, 23, 279-288.	3.6	157
78	Tubular endocytosis drives remodelling of the apical surface during epithelial morphogenesis in <i>Drosophila</i> . <i>Nature Communications</i> , 2013, 4, 2244.	5.8	86
79	Nuclear Pore Scaffold Structure Analyzed by Super-Resolution Microscopy and Particle Averaging. <i>Science</i> , 2013, 341, 655-658.	6.0	401
80	The structure of the COPII transport-vesicle coat assembled on membranes. <i>ELife</i> , 2013, 2, e00951.	2.8	112
81	Structural Biology of HIV Assembly. , 2013, , 1-22.		1
82	Imaging cellular structure across scales with correlated light, superresolution, and electron microscopy. <i>Molecular Biology of the Cell</i> , 2012, 23, 979-980.	0.9	5
83	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, 27659-27669.	1.6	96
84	<i>In Vitro</i> Assembly of Virus-Like Particles of a Gammaretrovirus, the Murine Leukemia Virus XMRV. <i>Journal of Virology</i> , 2012, 86, 1297-1306.	1.5	24
85	Complexin arrests a pool of docked vesicles for fast Ca ²⁺ -dependent release. <i>EMBO Journal</i> , 2012, 31, 3270-3281.	3.5	85
86	Plasma Membrane Reshaping during Endocytosis Is Revealed by Time-Resolved Electron Tomography. <i>Cell</i> , 2012, 150, 508-520.	13.5	320
87	Role of the SP2 Domain and Its Proteolytic Cleavage in HIV-1 Structural Maturation and Infectivity. <i>Journal of Virology</i> , 2012, 86, 13708-13716.	1.5	37
88	The Structures of COPI-Coated Vesicles Reveal Alternate Coatomer Conformations and Interactions. <i>Science</i> , 2012, 336, 1451-1454.	6.0	71
89	Precise, Correlated Fluorescence Microscopy and Electron Tomography of Lowicryl Sections Using Fluorescent Fiducial Markers. <i>Methods in Cell Biology</i> , 2012, 111, 235-257.	0.5	130
90	Structure of the immature retroviral capsid at 8 Å... resolution by cryo-electron microscopy. <i>Nature</i> , 2012, 487, 385-389.	13.7	152

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91	Computational Identification of Novel Amino-Acid Interactions in HIV Gag via Correlated Evolution. PLoS ONE, 2012, 7, e42468.	1.1	7
92	Structural dissection of Ebola virus and its assembly determinants using cryo-electron tomography. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4275-4280.	3.3	210
93	Correlated fluorescence and 3D electron microscopy with high sensitivity and spatial precision. Journal of Cell Biology, 2011, 192, 111-119.	2.3	408
94	The Molecular Architecture of HIV. Journal of Molecular Biology, 2011, 410, 491-500.	2.0	164
95	Multibudded tubules formed by COPII on artificial liposomes. Scientific Reports, 2011, 1, 17.	1.6	86
96	Coatmer and dimeric ADP ribosylation factor 1 promote distinct steps in membrane scission. Journal of Cell Biology, 2011, 194, 765-777.	2.3	70
97	Cryo-Electron Tomography of Marburg Virus Particles and Their Morphogenesis within Infected Cells. PLoS Biology, 2011, 9, e1001196.	2.6	125
98	Virological Synapse-Mediated Spread of Human Immunodeficiency Virus Type 1 between T Cells Is Sensitive to Entry Inhibition. Journal of Virology, 2010, 84, 3516-3527.	1.5	177
99	Conserved and Variable Features of Gag Structure and Arrangement in Immature Retrovirus Particles. Journal of Virology, 2010, 84, 11729-11736.	1.5	52
100	Electron Tomography Reveals the Steps in Filovirus Budding. PLoS Pathogens, 2010, 6, e1000875.	2.1	65
101	Cryo Electron Tomography of Native HIV-1 Budding Sites. PLoS Pathogens, 2010, 6, e1001173.	2.1	119
102	Structural Analysis of HIV-1 Maturation Using Cryo-Electron Tomography. PLoS Pathogens, 2010, 6, e1001215.	2.1	96
103	Computational Model of Membrane Fission Catalyzed by ESCRT-III. PLoS Computational Biology, 2009, 5, e1000575.	1.5	141
104	Contrast transfer function correction applied to cryo-electron tomography and sub-tomogram averaging. Journal of Structural Biology, 2009, 168, 305-312.	1.3	77
105	HIV-1 cellular interactions analyzed by single virus tracing. European Biophysics Journal, 2008, 37, 1291-1301.	1.2	30
106	Three-Dimensional Analysis of Budding Sites and Released Virus Suggests a Revised Model for HIV-1 Morphogenesis. Cell Host and Microbe, 2008, 4, 592-599.	5.1	208
107	Double-labelled HIV-1 particles for study of virus-cell interaction. Virology, 2007, 360, 92-104.	1.1	121
108	Cryo-electron Microscopy Reveals Conserved and Divergent Features of Gag Packing in Immature Particles of Rous Sarcoma Virus and Human Immunodeficiency Virus. Journal of Molecular Biology, 2006, 355, 157-168.	2.0	87

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109	The Mechanism of HIV-1 Core Assembly: Insights from Three-Dimensional Reconstructions of Authentic Virions. <i>Structure</i> , 2006, 14, 15-20.	1.6	188
110	Cryo-Electron Tomographic Structure of an Immunodeficiency Virus Envelope Complex In Situ. <i>PLoS Pathogens</i> , 2006, 2, e83.	2.1	205
111	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.	1.3	34
112	Cryoelectron Microscopy of Mouse Mammary Tumor Virus. <i>Journal of Virology</i> , 2004, 78, 2606-2608.	1.5	21
113	The stoichiometry of Gag protein in HIV-1. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 672-675.	3.6	462
114	Structural organization of authentic, mature HIV-1 virions and cores. <i>EMBO Journal</i> , 2003, 22, 1707-1715.	3.5	390
115	Pathogenic bacteria attach to human fibronectin through a tandem $\hat{\text{I}}^2$ -zipper. <i>Nature</i> , 2003, 423, 177-181.	13.7	326
116	Do lipid rafts mediate virus assembly and pseudotyping?. <i>Journal of General Virology</i> , 2003, 84, 757-768.	1.3	114
117	Multiple site-specific infrared dichroism of CD3- $\hat{\text{I}}^{\eta}$, a transmembrane helix bundle. <i>Journal of Molecular Biology</i> , 2002, 316, 365-374.	2.0	42
118	Convergence of experimental, computational and evolutionary approaches predicts the presence of a tetrameric form for CD3- $\hat{\text{I}}^{\eta}$. <i>Journal of Molecular Biology</i> , 2002, 316, 375-384.	2.0	35
119	Contribution of Energy Values to the Analysis of Global Searching Molecular Dynamics Simulations of Transmembrane Helical Bundles. <i>Biophysical Journal</i> , 2002, 82, 3063-3071.	0.2	24