Kay GrÃ¼newald

List of Publications by Year
in descending order

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85	6,159	66343	74163
papers	citations	42 h-index	75 g-index

95	95	95	7670
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-Dimensional Structure of Herpes Simplex Virus from Cryo-Electron Tomography. Science, 2003, 302, 1396-1398.	12.6	507
2	A molecular pore spans the double membrane of the coronavirus replication organelle. Science, 2020, 369, 1395-1398.	12.6	372
3	Simian Virus 40 Depends on ER Protein Folding and Quality Control Factors for Entry into Host Cells. Cell, 2007, 131, 516-529.	28.9	285
4	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.	11.0	208
5	Cryo-Electron Tomographic Structure of an Immunodeficiency Virus Envelope Complex In Situ. PLoS Pathogens, 2006, 2, e83.	4.7	205
6	The Mechanism of HIV-1 Core Assembly: Insights from Three-Dimensional Reconstructions of Authentic Virions. Structure, 2006, 14, 15-20.	3.3	188
7	Structural Basis of Vesicle Formation at the Inner Nuclear Membrane. Cell, 2015, 163, 1692-1701.	28.9	180
8	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. Structure, 2015, 23, 1156-1167.	3.3	159
9	Protein assemblies ejected directly from native membranes yield complexes for mass spectrometry. Science, 2018, 362, 829-834.	12.6	155
10	Native 3D intermediates of membrane fusion in herpes simplex virus 1 entry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10559-10564.	7.1	152
11	The Three-Dimensional Organization of Polyribosomes in Intact Human Cells. Molecular Cell, 2010, 39, 560-569.	9.7	149
12	Ketocarotenoid Biosynthesis Outside of Plastids in the Unicellular Green Alga Haematococcus pluvialis. Journal of Biological Chemistry, 2001, 276, 6023-6029.	3.4	138
13	Electron Cryotomography of Tula Hantavirus Suggests a Unique Assembly Paradigm for Enveloped Viruses. Journal of Virology, 2010, 84, 4889-4897.	3.4	124
14	Super-Resolution Microscopy Using Standard Fluorescent Proteins in Intact Cells under Cryo-Conditions. Nano Letters, 2014, 14, 4171-4175.	9.1	121
15	Cryo Electron Tomography of Native HIV-1 Budding Sites. PLoS Pathogens, 2010, 6, e1001173.	4.7	119
16	A resolution criterion for electron tomography based on cross-validation. Journal of Structural Biology, 2005, 151, 117-129.	2.8	114
17	Electron Cryo-Microscopy and Single-Particle Averaging of Rift Valley Fever Virus: Evidence for G _N -G _C Glycoprotein Heterodimers. Journal of Virology, 2009, 83, 3762-3769.	3.4	112
18	High-precision correlative fluorescence and electron cryo microscopy using two independent alignment markers. Ultramicroscopy, 2014, 143, 41-51.	1.9	107

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19	Eisosome proteins assemble into a membrane scaffold. Journal of Cell Biology, 2011, 195, 889-902.	5.2	103
20	Prospects of electron cryotomography to visualize macromolecular complexes inside cellular compartments: implications of crowding. Biophysical Chemistry, 2002, 100, 577-591.	2.8	102
21	Phytoene Desaturase Is Localized Exclusively in the Chloroplast and Up-Regulated at the mRNA Level during Accumulation of Secondary Carotenoids in Haematococcus pluvialis (Volvocales,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	4.8	101
22	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	2.8	99
23	Correlative VIS-fluorescence and soft X-ray cryo-microscopy/tomography of adherent cells. Journal of Structural Biology, 2012, 177, 193-201.	2.8	98
24	Insights into bunyavirus architecture from electron cryotomography of Uukuniemi virus. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2375-2379.	7.1	96
25	Towards correlative superâ€resolution fluorescence and electron cryoâ€microscopy. Biology of the Cell, 2016, 108, 245-258.	2.0	93
26	Two distinct trimeric conformations of natively membrane-anchored full-length herpes simplex virus 1 glycoprotein B. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4176-4181.	7.1	93
27	Infection of neurons and encephalitis after intracranial inoculation of herpes simplex virus requires the entry receptor nectin-1. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17916-17920.	7.1	85
28	Model for the architecture of caveolae based on a flexible, net-like assembly of Cavin1 and Caveolin discs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8069-E8078.	7.1	84
29	Correlative in-resin super-resolution and electron microscopy using standard fluorescent proteins. Scientific Reports, 2015, 5, 9583.	3.3	81
30	Crystal Structure of the Herpesvirus Nuclear Egress Complex Provides Insights into Inner Nuclear Membrane Remodeling. Cell Reports, 2015, 13, 2645-2652.	6.4	80
31	Fluorescence cryo-microscopy: current challenges and prospects. Current Opinion in Chemical Biology, 2014, 20, 86-91.	6.1	79
32	Conserved Eukaryotic Fusogens Can Fuse Viral Envelopes to Cells. Science, 2011, 332, 589-592.	12.6	75
33	Cryo-SOFI enabling low-dose super-resolution correlative light and electron cryo-microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4804-4809.	7.1	68
34	Multi-layered control of Galectin-8 mediated autophagy during adenovirus cell entry through a conserved PPxY motif in the viral capsid. PLoS Pathogens, 2017, 13, e1006217.	4.7	62
35	Title is missing!. Journal of Applied Phycology, 2001, 13, 79-87.	2.8	59
36	A Technical Introduction to Transmission Electron Microscopy for Softâ€Matter: Imaging, Possibilities, Choices, and Technical Developments. Small, 2020, 16, e1906198.	10.0	58

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37	Structure of complex viruses and virus-infected cells by electron cryo tomography. Current Opinion in Microbiology, 2006, 9, 437-442.	5.1	57
38	Cryo Electron Tomography of Herpes Simplex Virus during Axonal Transport and Secondary Envelopment in Primary Neurons. PLoS Pathogens, 2011, 7, e1002406.	4.7	52
39	Combined 1H-Detected Solid-State NMR Spectroscopy and Electron Cryotomography to Study Membrane Proteins across Resolutions in Native Environments. Structure, 2018, 26, 161-170.e3.	3.3	51
40	Accumulation of secondary carotenoids in flagellates ofHaematococcus pluvialis(Chlorophyta) is accompanied by an increase in per unit chlorophyll productivity of photosynthesis. European Journal of Phycology, 2000, 35, 75-82.	2.0	50
41	The prefusion structure of herpes simplex virus glycoprotein B. Science Advances, 2020, 6, .	10.3	50
42	The Structure of Herpesvirus Fusion Glycoprotein B-Bilayer Complex Reveals the Protein-Membrane and Lateral Protein-Protein Interaction. Structure, 2013, 21, 1396-1405.	3.3	47
43	A 3D cellular context for the macromolecular world. Nature Structural and Molecular Biology, 2014, 21, 841-845.	8.2	47
44	Secondary carotenoid accumulation in flagellates of the green algaHaematococcus lacustris. European Journal of Phycology, 1997, 32, 387-392.	2.0	45
45	Structural and functional characterization of the severe fever with thrombocytopenia syndrome virus L protein. Nucleic Acids Research, 2020, 48, 5749-5765.	14.5	44
46	The m74 Gene Product of Murine Cytomegalovirus (MCMV) Is a Functional Homolog of Human CMV gO and Determines the Entry Pathway of MCMV. Journal of Virology, 2010, 84, 4469-4480.	3.4	43
47	DNA origami signposts for identifying proteins on cell membranes by electron cryotomography. Cell, 2021, 184, 1110-1121.e16.	28.9	43
48	The full-length cellâ€“cell fusogen EFF-1 is monomeric and upright on the membrane. Nature Communications, 2014, 5, 3912.	12.8	40
49	Extracellular Vesicles: A Platform for the Structure Determination of Membrane Proteins by Cryo-EM. Structure, 2014, 22, 1687-1692.	3.3	39
50	Cellular electron cryo tomography and in situ sub-volume averaging reveal the context of microtubule-based processes. Journal of Structural Biology, 2017, 197, 181-190.	2.8	39
51	Multimodal nanoparticles as alignment and correlation markers in fluorescence/soft X-ray cryo-microscopy/tomography of nucleoplasmic reticulum and apoptosis in mammalian cells. Ultramicroscopy, 2014, 146, 46-54.	1.9	38
52	Title is missing!. , 2001, 13, 89-93.		35
53	A cool hybrid approach to the herpesvirus â€˜lifeâ€™ cycle. Current Opinion in Virology, 2014, 5, 42-49.	5.4	33
54	Characterization of herpes simplex virus type 1â€‰ <scp>L</scp> â€particle assembly and egress in hippocampal neurones by electron cryoâ€tomography. Cellular Microbiology, 2013, 15, 285-291.	2.1	32

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55	The use of sonicated lipid vesicles for mass spectrometry of membrane protein complexes. Nature Protocols, 2020, 15, 1690-1706.	12.0	30
56	Native structure of a retroviral envelope protein and its conformational change upon interaction with the target cell. Journal of Structural Biology, 2017, 197, 172-180.	2.8	29
57	Electron cryo-tomography captures macromolecular complexes in native environments. Current Opinion in Structural Biology, 2017, 46, 149-156.	5.7	27
58	Human cytomegalovirus forms phase-separated compartments at viral genomes to facilitate viral replication. Cell Reports, 2022, 38, 110469.	6.4	27
59	Conformational changes in Lassa virus L protein associated with promoter binding and RNA synthesis activity. Nature Communications, 2021, 12, 7018.	12.8	26
60	The Amphipathic Helix of Adenovirus Capsid Protein VI Contributes to Penton Release and Postentry Sorting. Journal of Virology, 2015, 89, 2121-2135.	3.4	25
61	Electron Bio-Imaging Centre (eBIC): the UK national research facility for biological electron microscopy. Acta Crystallographica Section D: Structural Biology, 2017, 73, 488-495.	2.3	24
62	HIV-1 Biogenesis Studied by Cellular Cryo-Electron Tomography and Biochemical in vitro Reconstitution. Microscopy and Microanalysis, 2012, 18, 50-51.	0.4	23
63	The Nucleocapsid Domain of Gag Is Dispensable for Actin Incorporation into HIV-1 and for Association of Viral Budding Sites with Cortical F-Actin. Journal of Virology, 2014, 88, 7893-7903.	3.4	23
64	A national facility for biological cryo-electron microscopy. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 127-135.	2.5	22
65	Targeting of Viral Capsids to Nuclear Pores in a Cellâ€Free Reconstitution System. Traffic, 2014, 15, 1266-1281.	2.7	19
66	Herpesvirus membrane fusion â€“ a team effort. Current Opinion in Structural Biology, 2020, 62, 112-120.	5.7	19
67	Protein interactions and consensus clustering analysis uncover insights into herpesvirus virion structure and function relationships. PLoS Biology, 2019, 17, e3000316.	5.6	18
68	HVint: A Strategy for Identifying Novel Protein-Protein Interactions in Herpes Simplex Virus Type 1. Molecular and Cellular Proteomics, 2016, 15, 2939-2953.	3.8	17
69	Cellular Electron Cryo-Tomography to Study Virus-Host Interactions. Annual Review of Virology, 2020, 7, 239-262.	6.7	14
70	In Vitro Viral Evolution Identifies a Critical Residue in the Alphaherpesvirus Fusion Glycoprotein B Ectodomain That Controls gH/gL-Independent Entry. MBio, 2021, 12, .	4.1	14
71	SHORT COMMUNICATION: Microcarriers for highâ€pressure freezing and cryosectioning of adherent cells. Journal of Microscopy, 2008, 230, 288-296.	1.8	13
72	Critical Step-by-Step Approaches Toward Correlative Fluorescence/Soft X-Ray Cryo-Microscopy of Adherent Mammalian Cells. Methods in Cell Biology, 2014, 124, 179-216.	1.1	13

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73	Fluorescent protein tagging of adenoviral proteins pV and pIX reveals â€¯late virion accumulation compartmentâ€™. PLoS Pathogens, 2020, 16, e1008588.	4.7	11
74	Secondary carotenoid accumulation in flagellates of the green alga Haematococcus lacustris. European Journal of Phycology, 1997, 32, 387-392.	2.0	9
75	Editorial on Correlative microscopy. Ultramicroscopy, 2014, 143, 1-2.	1.9	4
76	Conserved Central Intraviral Protein Interactome of the Herpesviridae Family. MSystems, 2019, 4, .	3.8	4
77	Correlative super-resolution fluorescence and electron cryo-microscopy based on cryo-SOFI. Methods in Cell Biology, 2021, 162, 253-271.	1.1	3
78	Adding a spatial dimension to the proteome. Nature Methods, 2009, 6, 798-800.	19.0	2
79	Human Adenovirus Type 5 Infection Leads to Nuclear Envelope Destabilization and Membrane Permeability Independently of Adenovirus Death Protein. International Journal of Molecular Sciences, 2021, 22, 13034.	4.1	2
80	Resolution Assessment in Electron Tomography: a Cross-Validation Approach. Microscopy and Microanalysis, 2005, 11, .	0.4	1
81	Viral fusion: how Flu induces dimples on liposomes. EMBO Journal, 2010, 29, 1165-1166.	7.8	1
82	Accumulation of secondary carotenoids in flagellates of Haematococcus pluvialis (Chlorophyta) is accompanied by an increase in per unit chlorophyll productivity of photosynthesis. European Journal of Phycology, 2000, 35, 75-82.	2.0	1
83	Editorial Overview. Current Opinion in Virology, 2018, 31, iii-v.	5.4	0
84	Studying membrane fusion at molecular resolution. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C187-C188.	0.3	0
85	Insigths Into Secondary Carotenoid Synthesis in the Green Algae Haematococcus Pluvialis. , 1998, , 3285-3288.		0