

# Kay GrÃ¼newald

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4688034/publications.pdf>

Version: 2024-02-01

85  
papers

6,159  
citations

66343

42  
h-index

74163

75  
g-index

95  
all docs

95  
docs citations

95  
times ranked

7670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human cytomegalovirus forms phase-separated compartments at viral genomes to facilitate viral replication. <i>Cell Reports</i> , 2022, 38, 110469.	6.4	27
2	DNA origami signposts for identifying proteins on cell membranes by electron cryotomography. <i>Cell</i> , 2021, 184, 1110-1121.e16.	28.9	43
3	<i>In Vitro</i> Viral Evolution Identifies a Critical Residue in the Alphaherpesvirus Fusion Glycoprotein B Ectodomain That Controls gH/gL-Independent Entry. <i>MBio</i> , 2021, 12, .	4.1	14
4	Correlative super-resolution fluorescence and electron cryo-microscopy based on cryo-SOFI. <i>Methods in Cell Biology</i> , 2021, 162, 253-271.	1.1	3
5	Conformational changes in Lassa virus L protein associated with promoter binding and RNA synthesis activity. <i>Nature Communications</i> , 2021, 12, 7018.	12.8	26
6	Human Adenovirus Type 5 Infection Leads to Nuclear Envelope Destabilization and Membrane Permeability Independently of Adenovirus Death Protein. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13034.	4.1	2
7	The prefusion structure of herpes simplex virus glycoprotein B. <i>Science Advances</i> , 2020, 6, .	10.3	50
8	A molecular pore spans the double membrane of the coronavirus replication organelle. <i>Science</i> , 2020, 369, 1395-1398.	12.6	372
9	A Technical Introduction to Transmission Electron Microscopy for Soft Matter: Imaging, Possibilities, Choices, and Technical Developments. <i>Small</i> , 2020, 16, e1906198.	10.0	58
10	The use of sonicated lipid vesicles for mass spectrometry of membrane protein complexes. <i>Nature Protocols</i> , 2020, 15, 1690-1706.	12.0	30
11	Cellular Electron Cryo-Tomography to Study Virus-Host Interactions. <i>Annual Review of Virology</i> , 2020, 7, 239-262.	6.7	14
12	Fluorescent protein tagging of adenoviral proteins pV and pIX reveals late virion accumulation compartment. <i>PLoS Pathogens</i> , 2020, 16, e1008588.	4.7	11
13	Herpesvirus membrane fusion – a team effort. <i>Current Opinion in Structural Biology</i> , 2020, 62, 112-120.	5.7	19
14	Structural and functional characterization of the severe fever with thrombocytopenia syndrome virus L protein. <i>Nucleic Acids Research</i> , 2020, 48, 5749-5765.	14.5	44
15	Protein interactions and consensus clustering analysis uncover insights into herpesvirus virion structure and function relationships. <i>PLoS Biology</i> , 2019, 17, e3000316.	5.6	18
16	Cryo-SOFI enabling low-dose super-resolution correlative light and electron cryo-microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4804-4809.	7.1	68
17	Conserved Central Intraviral Protein Interactome of the Herpesviridae Family. <i>MSystems</i> , 2019, 4, .	3.8	4
18	Combined 1H-Detected Solid-State NMR Spectroscopy and Electron Cryotomography to Study Membrane Proteins across Resolutions in Native Environments. <i>Structure</i> , 2018, 26, 161-170.e3.	3.3	51

#	ARTICLE	IF	CITATIONS
19	Protein assemblies ejected directly from native membranes yield complexes for mass spectrometry. <i>Science</i> , 2018, 362, 829-834.	12.6	155
20	Editorial Overview. <i>Current Opinion in Virology</i> , 2018, 31, iii-v.	5.4	0
21	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 443001.	2.8	99
22	Electron cryo-tomography captures macromolecular complexes in native environments. <i>Current Opinion in Structural Biology</i> , 2017, 46, 149-156.	5.7	27
23	Cellular electron cryo tomography and in situ sub-volume averaging reveal the context of microtubule-based processes. <i>Journal of Structural Biology</i> , 2017, 197, 181-190.	2.8	39
24	Native structure of a retroviral envelope protein and its conformational change upon interaction with the target cell. <i>Journal of Structural Biology</i> , 2017, 197, 172-180.	2.8	29
25	Electron Bio-Imaging Centre (eBIC): the UK national research facility for biological electron microscopy. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 488-495.	2.3	24
26	Multi-layered control of Galectin-8 mediated autophagy during adenovirus cell entry through a conserved PPxY motif in the viral capsid. <i>PLoS Pathogens</i> , 2017, 13, e1006217.	4.7	62
27	HVint: A Strategy for Identifying Novel Protein-Protein Interactions in Herpes Simplex Virus Type 1. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2939-2953.	3.8	17
28	Model for the architecture of caveolae based on a flexible, net-like assembly of Cavin1 and Caveolin discs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8069-E8078.	7.1	84
29	Towards correlative super-resolution fluorescence and electron cryo-microscopy. <i>Biology of the Cell</i> , 2016, 108, 245-258.	2.0	93
30	Two distinct trimeric conformations of natively membrane-anchored full-length herpes simplex virus 1 glycoprotein B. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4176-4181.	7.1	93
31	Crystal Structure of the Herpesvirus Nuclear Egress Complex Provides Insights into Inner Nuclear Membrane Remodeling. <i>Cell Reports</i> , 2015, 13, 2645-2652.	6.4	80
32	Structural Basis of Vesicle Formation at the Inner Nuclear Membrane. <i>Cell</i> , 2015, 163, 1692-1701.	28.9	180
33	The Amphipathic Helix of Adenovirus Capsid Protein VI Contributes to Penton Release and Postentry Sorting. <i>Journal of Virology</i> , 2015, 89, 2121-2135.	3.4	25
34	A national facility for biological cryo-electron microscopy. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 127-135.	2.5	22
35	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. <i>Structure</i> , 2015, 23, 1156-1167.	3.3	159
36	Correlative in-resin super-resolution and electron microscopy using standard fluorescent proteins. <i>Scientific Reports</i> , 2015, 5, 9583.	3.3	81

#	ARTICLE	IF	CITATIONS
37	Fluorescence cryo-microscopy: current challenges and prospects. <i>Current Opinion in Chemical Biology</i> , 2014, 20, 86-91.	6.1	79
38	Critical Step-by-Step Approaches Toward Correlative Fluorescence/Soft X-Ray Cryo-Microscopy of Adherent Mammalian Cells. <i>Methods in Cell Biology</i> , 2014, 124, 179-216.	1.1	13
39	The full-length cell-cell fusogen EFF-1 is monomeric and upright on the membrane. <i>Nature Communications</i> , 2014, 5, 3912.	12.8	40
40	A 3D cellular context for the macromolecular world. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 841-845.	8.2	47
41	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.	3.4	23
42	Targeting of Viral Capsids to Nuclear Pores in a Cell-Free Reconstitution System. <i>Traffic</i> , 2014, 15, 1266-1281.	2.7	19
43	Extracellular Vesicles: A Platform for the Structure Determination of Membrane Proteins by Cryo-EM. <i>Structure</i> , 2014, 22, 1687-1692.	3.3	39
44	High-precision correlative fluorescence and electron cryo microscopy using two independent alignment markers. <i>Ultramicroscopy</i> , 2014, 143, 41-51.	1.9	107
45	Super-Resolution Microscopy Using Standard Fluorescent Proteins in Intact Cells under Cryo-Conditions. <i>Nano Letters</i> , 2014, 14, 4171-4175.	9.1	121
46	Editorial on Correlative microscopy. <i>Ultramicroscopy</i> , 2014, 143, 1-2.	1.9	4
47	Multimodal nanoparticles as alignment and correlation markers in fluorescence/soft X-ray cryo-microscopy/tomography of nucleoplasmic reticulum and apoptosis in mammalian cells. <i>Ultramicroscopy</i> , 2014, 146, 46-54.	1.9	38
48	A cool hybrid approach to the herpesvirus "life" cycle. <i>Current Opinion in Virology</i> , 2014, 5, 42-49.	5.4	33
49	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
50	Characterization of herpes simplex virus type 1 particle assembly and egress in hippocampal neurones by electron cryo-tomography. <i>Cellular Microbiology</i> , 2013, 15, 285-291.	2.1	32
51	HIV-1 Biogenesis Studied by Cellular Cryo-Electron Tomography and Biochemical in vitro Reconstitution. <i>Microscopy and Microanalysis</i> , 2012, 18, 50-51.	0.4	23
52	Correlative VIS-fluorescence and soft X-ray cryo-microscopy/tomography of adherent cells. <i>Journal of Structural Biology</i> , 2012, 177, 193-201.	2.8	98
53	Conserved Eukaryotic Fusogens Can Fuse Viral Envelopes to Cells. <i>Science</i> , 2011, 332, 589-592.	12.6	75
54	Eisosome proteins assemble into a membrane scaffold. <i>Journal of Cell Biology</i> , 2011, 195, 889-902.	5.2	103

#	ARTICLE	IF	CITATIONS
55	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
56	Studying membrane fusion at molecular resolution. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C187-C188.	0.3	0
57	Viral fusion: how Flu induces dimples on liposomes. <i>EMBO Journal</i> , 2010, 29, 1165-1166.	7.8	1
58	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
59	The m74 Gene Product of Murine Cytomegalovirus (MCMV) Is a Functional Homolog of Human CMV gO and Determines the Entry Pathway of MCMV. <i>Journal of Virology</i> , 2010, 84, 4469-4480.	3.4	43
60	Cryo Electron Tomography of Native HIV-1 Budding Sites. <i>PLoS Pathogens</i> , 2010, 6, e1001173.	4.7	119
61	The Three-Dimensional Organization of Polyribosomes in Intact Human Cells. <i>Molecular Cell</i> , 2010, 39, 560-569.	9.7	149
62	Infection of neurons and encephalitis after intracranial inoculation of herpes simplex virus requires the entry receptor nectin-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17916-17920.	7.1	85
63	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
64	Adding a spatial dimension to the proteome. <i>Nature Methods</i> , 2009, 6, 798-800.	19.0	2
65	SHORT COMMUNICATION: Microcarriers for high-pressure freezing and cryosectioning of adherent cells. <i>Journal of Microscopy</i> , 2008, 230, 288-296.	1.8	13
66	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, 592-599.	11.0	208
67	Native 3D intermediates of membrane fusion in herpes simplex virus 1 entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10559-10564.	7.1	152
68	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
69	Simian Virus 40 Depends on ER Protein Folding and Quality Control Factors for Entry into Host Cells. <i>Cell</i> , 2007, 131, 516-529.	28.9	285
70	Structure of complex viruses and virus-infected cells by electron cryo tomography. <i>Current Opinion in Microbiology</i> , 2006, 9, 437-442.	5.1	57
71	The Mechanism of HIV-1 Core Assembly: Insights from Three-Dimensional Reconstructions of Authentic Virions. <i>Structure</i> , 2006, 14, 15-20.	3.3	188
72	Cryo-Electron Tomographic Structure of an Immunodeficiency Virus Envelope Complex In Situ. <i>PLoS Pathogens</i> , 2006, 2, e83.	4.7	205

#	ARTICLE	IF	CITATIONS
73	Resolution Assessment in Electron Tomography: a Cross-Validation Approach. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.4	1
74	A resolution criterion for electron tomography based on cross-validation. <i>Journal of Structural Biology</i> , 2005, 151, 117-129.	2.8	114
75	Three-Dimensional Structure of Herpes Simplex Virus from Cryo-Electron Tomography. <i>Science</i> , 2003, 302, 1396-1398.	12.6	507
76	Prospects of electron cryotomography to visualize macromolecular complexes inside cellular compartments: implications of crowding. <i>Biophysical Chemistry</i> , 2002, 100, 577-591.	2.8	102
77	Title is missing!. <i>Journal of Applied Phycology</i> , 2001, 13, 79-87.	2.8	59
78	Title is missing!. , 2001, 13, 89-93.		35
79	Ketocarotenoid Biosynthesis Outside of Plastids in the Unicellular Green Alga <i>Haematococcus pluvialis</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 6023-6029.	3.4	138
80	Phytoene Desaturase Is Localized Exclusively in the Chloroplast and Up-Regulated at the mRNA Level during Accumulation of Secondary Carotenoids in <i>Haematococcus pluvialis</i> (Volvocales.) <i>Trends in Plant Science</i> , 2001, 6, 104-105.	1.8	50
81	Accumulation of secondary carotenoids in flagellates of <i>Haematococcus pluvialis</i> (Chlorophyta) is accompanied by an increase in per unit chlorophyll productivity of photosynthesis. <i>European Journal of Phycology</i> , 2000, 35, 75-82.	2.0	50
82	Accumulation of secondary carotenoids in flagellates of <i>Haematococcus pluvialis</i> (Chlorophyta) is accompanied by an increase in per unit chlorophyll productivity of photosynthesis. <i>European Journal of Phycology</i> , 2000, 35, 75-82.	2.0	1
83	Insights Into Secondary Carotenoid Synthesis in the Green Algae <i>Haematococcus Pluvialis</i> . , 1998, , 3285-3288.		0
84	Secondary carotenoid accumulation in flagellates of the green alga <i>Haematococcus lacustris</i> . <i>European Journal of Phycology</i> , 1997, 32, 387-392.	2.0	45
85	Secondary carotenoid accumulation in flagellates of the green alga <i>Haematococcus lacustris</i> . <i>European Journal of Phycology</i> , 1997, 32, 387-392.	2.0	9