Tom Kirchhausen

List of Publications by Year
in descending order

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33 papers	4,571 citations	218677 26 h-index	395702 33 g-index
41 all docs	41 docs citations	41 times ranked	7951 citing authors

#	Article	IF	Citations
1	Observing the cell in its native state: Imaging subcellular dynamics in multicellular organisms. Science, 2018, 360, .	12.6	420
2	Membrane fission by dynamin: what we know and what we need to know. EMBO Journal, 2016, 35, 2270-2284.	7.8	388
3	Molecular Structure, Function, and Dynamics of Clathrin-Mediated Membrane Traffic. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016725-a016725.	5.5	377
4	Use of Dynasore, the Small Molecule Inhibitor of Dynamin, in the Regulation of Endocytosis. Methods in Enzymology, 2008, 438, 77-93.	1.0	358
5	The First Five Seconds in the Life of a Clathrin-Coated Pit. Cell, 2012, 150, 495-507.	28.9	341
6	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. Science, 2019, 363, .	12.6	277
7	Correlative three-dimensional super-resolution and block-face electron microscopy of whole vitreously frozen cells. Science, 2020, 367, .	12.6	255
8	HDAC6 mediates an aggresome-like mechanism for NLRP3 and pyrin inflammasome activation. Science, 2020, 369, .	12.6	218
9	Cholesterol 25-hydroxylase suppresses SARS-CoV-2 replication by blocking membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32105-32113.	7.1	192
10	Cisternal Organization of the Endoplasmic Reticulum during Mitosis. Molecular Biology of the Cell, 2009, 20, 3471-3480.	2.1	189
11	Inhibition of PIKfyve kinase prevents infection by Zaire ebolavirus and SARS-CoV-2. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20803-20813.	7.1	154
12	Recruitment dynamics of ESCRT-III and Vps4 to endosomes and implications for reverse membrane budding. ELife, 2017, 6, .	6.0	138
13	Membrane dynamics of dividing cells imaged by lattice light-sheet microscopy. Molecular Biology of the Cell, 2016, 27, 3418-3435.	2.1	121
14	Dynamics of phosphoinositide conversion in clathrin-mediated endocytic traffic. Nature, 2017, 552, 410-414.	27.8	119
15	Dynamin recruitment and membrane scission at the neck of a clathrin-coated pit. Molecular Biology of the Cell, 2014, 25, 3595-3609.	2.1	117
16	Miro1-mediated mitochondrial positioning shapes intracellular energy gradients required for cell migration. Molecular Biology of the Cell, 2017, 28, 2159-2169.	2.1	115
17	Data publication with the structural biology data grid supports live analysis. Nature Communications, 2016, 7, 10882.	12.8	113
18	Design and Validation of a Human Brain Endothelial Microvessel-on-a-Chip Open Microfluidic Model Enabling Advanced Optical Imaging. Frontiers in Bioengineering and Biotechnology, 2020, 8, 573775.	4.1	88

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19	A Motif in the Clathrin Heavy Chain Required for the Hsc70/Auxilin Uncoating Reaction. Molecular Biology of the Cell, 2008, 19, 405-413.	2.1	68
20	Molecularly Distinct Clathrin-Coated Pits Differentially Impact EGFR Fate and Signaling. Cell Reports, 2019, 27, 3049-3061.e6.	6.4	58
21	Dynamics of Intracellular Clathrin/AP1- and Clathrin/AP3-Containing Carriers. Cell Reports, 2012, 2, 1111-1119.	6.4	55
22	Limited Transferrin Receptor Clustering Allows Rapid Diffusion of Canine Parvovirus into Clathrin Endocytic Structures. Journal of Virology, 2012, 86, 5330-5340.	3.4	54
23	PKC-phosphorylation of Liprin-Î±3 triggers phase separation and controls presynaptic active zone structure. Nature Communications, 2021, 12, 3057.	12.8	46
24	Dynamics of Auxilin 1 and GAK in clathrin-mediated traffic. Journal of Cell Biology, 2020, 219, .	5.2	37
25	Role of the clathrin adaptor PICALM in normal hematopoiesis and polycythemia vera pathophysiology. Haematologica, 2015, 100, 439-451.	3.5	35
26	Asymmetric formation of coated pits on dorsal and ventral surfaces at the leading edges of motile cells and on protrusions of immobile cells. Molecular Biology of the Cell, 2015, 26, 2044-2053.	2.1	34
27	Synergistic Block of SARS-CoV-2 Infection by Combined Drug Inhibition of the Host Entry Factors PIKfyve Kinase and TMPRSS2 Protease. Journal of Virology, 2021, 95, e0097521.	3.4	34
28	Identification and Characterization of a Novel Broad-Spectrum Virus Entry Inhibitor. Journal of Virology, 2016, 90, 4494-4510.	3.4	29
29	Inhibition of JCPyV infection mediated by targeted viral genome editing using CRISPR/Cas9. Scientific Reports, 2016, 6, 36921.	3.3	27
30	Scramblase TMEM16F terminates T cell receptor signaling to restrict T cell exhaustion. Journal of Experimental Medicine, 2016, 213, 2759-2772.	8.5	25
31	Key Interactions for Clathrin Coat Stability. Structure, 2014, 22, 819-829.	3.3	21
32	Inherited nuclear pore substructures template post-mitotic pore assembly. Developmental Cell, 2021, 56, 1786-1803.e9.	7.0	21
33	Reconstitution of Clathrin Coat Disassembly for Fluorescence Microscopy and Single-Molecule Analysis. Methods in Molecular Biology, 2018, 1847, 121-146.	0.9	4