Paul Guichard

List of Publications by Year
in descending order

46 papers	2,396 citations	218381 26 h-index	253896 43 g-index
71 all docs	71 docs citations	71 times ranked	2415 citing authors

#	Article	IF	Citations
1	Imaging cellular ultrastructures using expansion microscopy (U-ExM). Nature Methods, 2019, 16, 71-74.	9.0	335
2	Procentriole assembly revealed by cryo-electron tomography. EMBO Journal, 2010, 29, 1565-1572.	3.5	122
3	Direct visualization of dispersed lipid bicontinuous cubic phases by cryo-electron tomography. Nature Communications, 2015, 6, 8915.	5.8	116
4	A helical inner scaffold provides a structural basis for centriole cohesion. Science Advances, 2020, 6, eaaz4137.	4.7	116
5	Native Architecture of the Centriole Proximal Region Reveals Features Underlying Its 9-Fold Radial Symmetry. Current Biology, 2013, 23, 1620-1628.	1.8	113
6	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM). Nature Communications, 2020, 11, 3388.	5.8	112
7	TORC1 organized in inhibited domains (TOROIDs) regulate TORC1 activity. Nature, 2017, 550, 265-269.	13.7	100
8	Visualization of proteins in intact cells with a clonable tag for electron microscopy. Journal of Structural Biology, 2009, 165, 157-168.	1.3	86
9	Cartwheel Architecture of Trichonympha Basal Body. Science, 2012, 337, 553-553.	6.0	84
10	Expansion microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid. PLoS Biology, 2021, 19, e3001020.	2.6	77
11	Cell-free reconstitution reveals centriole cartwheel assembly mechanisms. Nature Communications, 2017, 8, 14813.	5.8	74
12	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centrioleÂarchitecture. Nature Cell Biology, 2016, 18, 393-403.	4.6	73
13	Essential function of the alveolin network in the subpellicular microtubules and conoid assembly in Toxoplasma gondii. ELife, 2020, 9, .	2.8	71
14	Ultrastructure expansion microscopy (U-ExM). Methods in Cell Biology, 2021, 161, 57-81.	0.5	67
15	Caenorhabditis elegans centriolar protein SAS-6 forms a spiral that is consistent with imparting a ninefold symmetry. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11373-11378.	3.3	54
16	Identification of Chlamydomonas Central Core Centriolar Proteins Reveals a Role for Human WDR90 in Ciliogenesis. Current Biology, 2017, 27, 2486-2498.e6.	1.8	53
17	The Rise of the Cartwheel: Seeding the Centriole Organelle. BioEssays, 2018, 40, e1700241.	1.2	53
18	Homogeneous multifocal excitation for high-throughput super-resolution imaging. Nature Methods, 2020, 17, 726-733.	9.0	46

#	Article	IF	Citations
19	Overview of the centriole architecture. Current Opinion in Structural Biology, 2021, 66, 58-65.	2.6	46
20	Visualizing the native cellular organization by coupling cryofixation with expansion microscopy (Cryo-ExM). Nature Methods, 2022, 19, 216-222.	9.0	40
21	Self-assembling SAS-6 Multimer Is a Core Centriole Building Block. Journal of Biological Chemistry, 2010, 285, 8759-8770.	1.6	38
22	Correlative multicolor 3D SIM and STORM microscopy. Biomedical Optics Express, 2014, 5, 3326.	1.5	37
23	Flagellar microtubule doublet assembly in vitro reveals a regulatory role of tubulin C-terminal tails. Science, 2019, 363, 285-288.	6.0	37
24	Super-resolution microscopy to decipher multi-molecular assemblies. Current Opinion in Structural Biology, 2018, 49, 169-176.	2.6	35
25	Architecture of the centriole cartwheelâ€containing region revealed by cryoâ€electron tomography. EMBO Journal, 2020, 39, e106246.	3.5	32
26	The connecting cilium inner scaffold provides a structural foundation that protects against retinal degeneration. PLoS Biology, 2022, 20, e3001649.	2.6	32
27	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity. ELife, 2020, 9, .	2.8	31
28	Use of red autofluorescence for monitoring prodiginine biosynthesis. Journal of Microbiological Methods, 2013, 93, 138-143.	0.7	29
29	The Human Centriolar Protein CEP135 Contains a Two-Stranded Coiled-Coil Domain Critical for Microtubule Binding. Structure, 2016, 24, 1358-1371.	1.6	27
30	Hepatitis B subvirus particles display both a fluid bilayer membrane and a strong resistance to freeze drying: a study by solidâ€state NMR, light scattering, and cryoâ€electron microscopy/tomography. FASEB Journal, 2013, 27, 4316-4326.	0.2	26
31	Characterization of the novel mitochondrial genome segregation factor TAP110 in Trypanosoma brucei. Journal of Cell Science, 2021, 134, .	1.2	26
32	Three dimensional morphology of rabies virus studied by cryo-electron tomography. Journal of Structural Biology, 2011, 176, 32-40.	1.3	25
33	Purification of centrosomes from mammalian cell lines. Methods in Cell Biology, 2015, 129, 171-189.	0.5	23
34	Novel features of centriole polarity and cartwheel stacking revealed by cryoâ€tomography. EMBO Journal, 2020, 39, e106249.	3.5	23
35	Involvement of HFq protein in the post-transcriptional regulation ofE. colibacterial cytoskeleton and cell division proteins. Cell Cycle, 2009, 8, 2470-2472.	1.3	17
36	Reconstruction From Multiple Particles for 3D Isotropic Resolution in Fluorescence Microscopy. IEEE Transactions on Medical Imaging, 2018, 37, 1235-1246.	5.4	15

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37	The centriolar tubulin code. Seminars in Cell and Developmental Biology, 2023, 137, 16-25.	2.3	15
38	Improving the resolution of fluorescence nanoscopy using post-expansion labeling microscopy. Methods in Cell Biology, 2021, 161, 297-315.	0.5	12
39	Computational support for a scaffolding mechanism of centriole assembly. Scientific Reports, 2016, 6, 27075.	1.6	11
40	An Atomistic View of Microtubule Stabilization by GTP. Structure, 2013, 21, 833-843.	1.6	8
41	Isolation, cryotomography, and three-dimensional reconstruction of centrioles. Methods in Cell Biology, 2015, 129, 191-209.	0.5	7
42	Isolation and Fluorescence Imaging for Single-particle Reconstruction of Chlamydomonas Centrioles. Journal of Visualized Experiments, 2018, , .	0.2	7
43	Basal body structure in Trichonympha. Cilia, 2016, 5, 9.	1.8	6
44	Reconstruction From Multiple Poses in Fluorescence Imaging: Proof of Concept. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 61-70.	7.3	3
45	Paramecium tetraurelia basal body unit isolation for Cryo-electron tomography studies. Cilia, 2015, 4, P68.	1.8	1
46	Isotropic resolution in fluorescence imaging by single particle reconstruction. , 2016, , .		0