

Paul Guichard

List of Publications by Citations

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48
papers

1,446
citations

22
h-index

37
g-index

71
ext. papers

1,993
ext. citations

10.4
avg, IF

4.76
L-index

#	Paper	IF	Citations
48	Imaging cellular ultrastructures using expansion microscopy (U-ExM). <i>Nature Methods</i> , 2019 , 16, 71-74	21.6	153
47	Procentriole assembly revealed by cryo-electron tomography. <i>EMBO Journal</i> , 2010 , 29, 1565-72	13	106
46	Native architecture of the centriole proximal region reveals features underlying its 9-fold radial symmetry. <i>Current Biology</i> , 2013 , 23, 1620-8	6.3	92
45	Direct visualization of dispersed lipid bicontinuous cubic phases by cryo-electron tomography. <i>Nature Communications</i> , 2015 , 6, 8915	17.4	84
44	TORC1 organized in inhibited domains (TOROIDS) regulate TORC1 activity. <i>Nature</i> , 2017 , 550, 265-269	50.4	76
43	Cartwheel architecture of Trichonympha basal body. <i>Science</i> , 2012 , 337, 553	33.3	76
42	Visualization of proteins in intact cells with a clonable tag for electron microscopy. <i>Journal of Structural Biology</i> , 2009 , 165, 157-68	3.4	75
41	Cell-free reconstitution reveals centriole cartwheel assembly mechanisms. <i>Nature Communications</i> , 2017 , 8, 14813	17.4	60
40	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centriole architecture. <i>Nature Cell Biology</i> , 2016 , 18, 393-403	23.4	55
39	A helical inner scaffold provides a structural basis for centriole cohesion. <i>Science Advances</i> , 2020 , 6, eaaz4137	41.37	54
38	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM). <i>Nature Communications</i> , 2020 , 11, 3388	17.4	51
37	Caenorhabditis elegans centriolar protein SAS-6 forms a spiral that is consistent with imparting a ninefold symmetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11373-8	11.5	44
36	Identification of Chlamydomonas Central Core Centriolar Proteins Reveals a Role for Human WDR90 in Ciliogenesis. <i>Current Biology</i> , 2017 , 27, 2486-2498.e6	6.3	42
35	Self-assembling SAS-6 multimer is a core centriole building block. <i>Journal of Biological Chemistry</i> , 2010 , 285, 8759-70	5.4	37
34	The Rise of the Cartwheel: Seeding the Centriole Organelle. <i>BioEssays</i> , 2018 , 40, e1700241	4.1	35
33	Correlative multicolor 3D SIM and STORM microscopy. <i>Biomedical Optics Express</i> , 2014 , 5, 3326-36	3.5	33
32	Essential function of the alveolin network in the subpellicular microtubules and conoid assembly in. <i>ELife</i> , 2020 , 9,	8.9	27

31	Super-resolution microscopy to decipher multi-molecular assemblies. <i>Current Opinion in Structural Biology</i> , 2018 , 49, 169-176	8.1	25
30	Three dimensional morphology of rabies virus studied by cryo-electron tomography. <i>Journal of Structural Biology</i> , 2011 , 176, 32-40	3.4	23
29	Flagellar microtubule doublet assembly in vitro reveals a regulatory role of tubulin C-terminal tails. <i>Science</i> , 2019 , 363, 285-288	33.3	23
28	Architecture of the centriole cartwheel-containing region revealed by cryo-electron tomography. <i>EMBO Journal</i> , 2020 , 39, e106246	13	22
27	Expansion microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid. <i>PLoS Biology</i> , 2021 , 19, e3001020	9.7	22
26	The Human Centriolar Protein CEP135 Contains a Two-Stranded Coiled-Coil Domain Critical for Microtubule Binding. <i>Structure</i> , 2016 , 24, 1358-1371	5.2	20
25	Use of red autofluorescence for monitoring prodiginine biosynthesis. <i>Journal of Microbiological Methods</i> , 2013 , 93, 138-43	2.8	19
24	Overview of the centriole architecture. <i>Current Opinion in Structural Biology</i> , 2021 , 66, 58-65	8.1	19
23	Homogeneous multifocal excitation for high-throughput super-resolution imaging. <i>Nature Methods</i> , 2020 , 17, 726-733	21.6	18
22	Hepatitis B subvirus particles display both a fluid bilayer membrane and a strong resistance to freeze drying: a study by solid-state NMR, light scattering, and cryo-electron microscopy/tomography. <i>FASEB Journal</i> , 2013 , 27, 4316-26	0.9	18
21	Novel features of centriole polarity and cartwheel stacking revealed by cryo-tomography. <i>EMBO Journal</i> , 2020 , 39, e106249	13	16
20	Purification of centrosomes from mammalian cell lines. <i>Methods in Cell Biology</i> , 2015 , 129, 171-189	1.8	14
19	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity. <i>ELife</i> , 2020 , 9,	8.9	14
18	Ultrastructure expansion microscopy (U-ExM). <i>Methods in Cell Biology</i> , 2021 , 161, 57-81	1.8	14
17	Involvement of HFq protein in the post-transcriptional regulation of E. coli bacterial cytoskeleton and cell division proteins. <i>Cell Cycle</i> , 2009 , 8, 2470-2	4.7	13
16	Computational support for a scaffolding mechanism of centriole assembly. <i>Scientific Reports</i> , 2016 , 6, 27075	4.9	10
15	An atomistic view of microtubule stabilization by GTP. <i>Structure</i> , 2013 , 21, 833-43	5.2	8
14	Reconstruction From Multiple Particles for 3D Isotropic Resolution in Fluorescence Microscopy. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1235-1246	11.7	7

13	Visualizing the native cellular organization by coupling cryofixation with expansion microscopy (Cryo-ExM).. <i>Nature Methods</i> , 2022 ,	21.6	5
12	Isolation, cryotomography, and three-dimensional reconstruction of centrioles. <i>Methods in Cell Biology</i> , 2015 , 129, 191-209	1.8	4
11	Imaging beyond the super-resolution limits using ultrastructure expansion microscopy (UltraExM)		4
10	Characterization of the novel mitochondrial genome segregation factor TAP110 in. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	4
9	Isolation and Fluorescence Imaging for Single-particle Reconstruction of Chlamydomonas Centrioles. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	4
8	Basal body structure in Trichonympha. <i>Cilia</i> , 2016 , 5, 9	5.5	3
7	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity		3
6	Expansion Microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid		3
5	The centriolar tubulin code.. <i>Seminars in Cell and Developmental Biology</i> , 2021 ,	7.5	3
4	Reconstruction From Multiple Poses in Fluorescence Imaging: Proof of Concept. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 61-70	7.5	2
3	In situ architecture of the ciliary base reveals the stepwise assembly of IFT trains		2
2	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM)		2
1	Improving the resolution of fluorescence nanoscopy using post-expansion labeling microscopy. <i>Methods in Cell Biology</i> , 2021 , 161, 297-315	1.8	0