Paul Guichard

List of Publications by Year in Descending Order

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	Visualizing the native cellular organization by coupling cryofixation with expansion microscopy (Cryo-ExM).. *Nature Methods*, **2022**,	21.6	5
47	Characterization of the novel mitochondrial genome segregation factor TAP110 in. *Journal of Cell Science*, **2021**, 134,	5.3	4
46	Expansion microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid. *PLoS Biology*, **2021**, 19, e3001020	9.7	22
45	Ultrastructure expansion microscopy (U-ExM). *Methods in Cell Biology*, **2021**, 161, 57-81	1.8	14
44	Overview of the centriole architecture. *Current Opinion in Structural Biology*, **2021**, 66, 58-65	8.1	19
43	Improving the resolution of fluorescence nanoscopy using post-expansion labeling microscopy. *Methods in Cell Biology*, **2021**, 161, 297-315	1.8	0
42	The centriolar tubulin code.. *Seminars in Cell and Developmental Biology*, **2021**,	7.5	3
41	Homogeneous multifocal excitation for high-throughput super-resolution imaging. *Nature Methods*, **2020**, 17, 726-733	21.6	18
40	A helical inner scaffold provides a structural basis for centriole cohesion. *Science Advances*, **2020**, 6, eaaz4137	11.7	54
39	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM). *Nature Communications*, **2020**, 11, 3388	17.4	51
38	Architecture of the centriole cartwheel-containing region revealed by cryo-electron tomography. *EMBO Journal*, **2020**, 39, e106246	13	22
37	Novel features of centriole polarity and cartwheel stacking revealed by cryo-tomography. *EMBO Journal*, **2020**, 39, e106249	13	16
36	Essential function of the alveolin network in the subpellicular microtubules and conoid assembly in. *ELife*, **2020**, 9,	8.9	27
35	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity. *ELife*, **2020**, 9,	8.9	14
34	Imaging cellular ultrastructures using expansion microscopy (U-ExM). *Nature Methods*, **2019**, 16, 71-74	21.6	153
33	Flagellar microtubule doublet assembly in vitro reveals a regulatory role of tubulin C-terminal tails. *Science*, **2019**, 363, 285-288	33.3	23
32	The Rise of the Cartwheel: Seeding the Centriole Organelle. *BioEssays*, **2018**, 40, e1700241	4.1	35

31	Super-resolution microscopy to decipher multi-molecular assemblies. *Current Opinion in Structural Biology*, **2018**, 49, 169-176	8.1	25
30	Reconstruction From Multiple Particles for 3D Isotropic Resolution in Fluorescence Microscopy. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1235-1246	11.7	7
29	Isolation and Fluorescence Imaging for Single-particle Reconstruction of Chlamydomonas Centrioles. *Journal of Visualized Experiments*, **2018**,	1.6	4
28	Cell-free reconstitution reveals centriole cartwheel assembly mechanisms. *Nature Communications*, **2017**, 8, 14813	17.4	60
27	TORC1 organized in inhibited domains (TOROIDs) regulate TORC1 activity. *Nature*, **2017**, 550, 265-269	50.4	76
26	Identification of Chlamydomonas Central Core Centriolar Proteins Reveals a Role for Human WDR90 in Ciliogenesis. *Current Biology*, **2017**, 27, 2486-2498.e6	6.3	42
25	Computational support for a scaffolding mechanism of centriole assembly. *Scientific Reports*, **2016**, 6, 27075	4.9	10
24	Basal body structure in Trichonympha. *Cilia*, **2016**, 5, 9	5.5	3
23	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centriole architecture. *Nature Cell Biology*, **2016**, 18, 393-403	23.4	55
22	Reconstruction From Multiple Poses in Fluorescence Imaging: Proof of Concept. *IEEE Journal on Selected Topics in Signal Processing*, **2016**, 10, 61-70	7.5	2
21	The Human Centriolar Protein CEP135 Contains a Two-Stranded Coiled-Coil Domain Critical for Microtubule Binding. *Structure*, **2016**, 24, 1358-1371	5.2	20
20	Purification of centrosomes from mammalian cell lines. *Methods in Cell Biology*, **2015**, 129, 171-189	1.8	14
19	Isolation, cryotomography, and three-dimensional reconstruction of centrioles. *Methods in Cell Biology*, **2015**, 129, 191-209	1.8	4
18	Direct visualization of dispersed lipid bicontinuous cubic phases by cryo-electron tomography. *Nature Communications*, **2015**, 6, 8915	17.4	84
17	Correlative multicolor 3D SIM and STORM microscopy. *Biomedical Optics Express*, **2014**, 5, 3326-36	3.5	33
16	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. *FASEB Journal*, **2013**, 27, 4316-26	0.9	18
15	Native architecture of the centriole proximal region reveals features underlying its 9-fold radial symmetry. *Current Biology*, **2013**, 23, 1620-8	6.3	92
14	Use of red autofluorescence for monitoring prodiginine biosynthesis. *Journal of Microbiological Methods*, **2013**, 93, 138-43	2.8	19

13	An atomistic view of microtubule stabilization by GTP. *Structure*, **2013**, 21, 833-43	5.2	8
12	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, 11373-8	11.5	44
11	Cartwheel architecture of Trichonympha basal body. *Science*, **2012**, 337, 553	33.3	76
10	Three dimensional morphology of rabies virus studied by cryo-electron tomography. *Journal of Structural Biology*, **2011**, 176, 32-40	3.4	23
9	Procentriole assembly revealed by cryo-electron tomography. *EMBO Journal*, **2010**, 29, 1565-72	13	106
8	Self-assembling SAS-6 multimer is a core centriole building block. *Journal of Biological Chemistry*, **2010**, 285, 8759-70	5.4	37
7	Involvement of HFq protein in the post-transcriptional regulation of E. coli bacterial cytoskeleton and cell division proteins. *Cell Cycle*, **2009**, 8, 2470-2	4.7	13
6	Visualization of proteins in intact cells with a clonable tag for electron microscopy. *Journal of Structural Biology*, **2009**, 165, 157-68	3.4	75
5	In situ architecture of the ciliary base reveals the stepwise assembly of IFT trains		2
4	WDR90 is a centriolar microtubule wall protein important for centriole architecture integrity		3
3	Molecular resolution imaging by post-labeling expansion single-molecule localization microscopy (Ex-SMLM)		2
2	Expansion Microscopy provides new insights into the cytoskeleton of malaria parasites including the conservation of a conoid		3
1	Imaging beyond the super-resolution limits using ultrastructure expansion microscopy (UltraExM)		4