Peter Bieling

List of Publications by Year in Descending Order

18 papers	1,500 citations	13 h-index	29 g-index
29 ext. papers	1,974 ext. citations	15.6 avg, IF	4.47 L-index

#	Paper	IF	Citations
18	Cryo-EM Resolves Molecular Recognition Of An Optojasp Photoswitch Bound To Actin Filaments In Both Switch States. *Angewandte Chemie - International Edition*, **2021**, 60, 8678-8682	16.4	10
17	Cryo-EM Resolves Molecular Recognition Of An Optojasp Photoswitch Bound To Actin Filaments In Both Switch States. *Angewandte Chemie*, **2021**, 133, 8760-8764	3.6	1
16	A barbed end interference mechanism reveals how capping protein promotes nucleation in branched actin networks. *Nature Communications*, **2021**, 12, 5329	17.4	7
15	Stochastic geometry sensing and polarization in a lipid kinase-phosphatase competitive reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15013-15022	11.5	12
14	Extraction of active RhoGTPases by RhoGDI regulates spatiotemporal patterning of RhoGTPases. *ELife*, **2019**, 8,	8.9	27
13	Profilin and formin constitute a pacemaker system for robust actin filament growth. *ELife*, **2019**, 8,	8.9	33
12	Structural transitions of F-actin upon ATP hydrolysis at near-atomic resolution revealed by cryo-EM. *Nature Structural and Molecular Biology*, **2018**, 25, 528-537	17.6	90
11	WH2 and proline-rich domains of WASP-family proteins collaborate to accelerate actin filament elongation. *EMBO Journal*, **2018**, 37, 102-121	13	43
10	From solution to surface to filament: actin flux into branched networks. *Biophysical Reviews*, **2018**, 10, 1537-1551	3.7	21
9	Force Feedback Controls Motor Activity and Mechanical Properties of Self-Assembling Branched Actin Networks. *Cell*, **2016**, 164, 115-127	56.2	130
8	Actomyosin dynamics drive local membrane component organization in an in vitro active composite layer. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1645-54	11.5	88
7	Micropattern-guided assembly of overlapping pairs of dynamic microtubules. *Methods in Enzymology*, **2014**, 540, 339-60	1.7	7
6	Fluorescence microscopy assays on chemically functionalized surfaces for quantitative imaging of microtubule, motor, and +TIP dynamics. *Methods in Cell Biology*, **2010**, 95, 555-80	1.8	83
5	A minimal midzone protein module controls formation and length of antiparallel microtubule overlaps. *Cell*, **2010**, 142, 420-32	56.2	228
4	Microtubule motility on reconstituted meiotic chromatin. *Current Biology*, **2010**, 20, 763-9	6.3	45
3	Processive kinesins require loose mechanical coupling for efficient collective motility. *EMBO Reports*, **2008**, 9, 1121-7	6.5	90
2	CLIP-170 tracks growing microtubule ends by dynamically recognizing composite EB1/tubulin-binding sites. *Journal of Cell Biology*, **2008**, 183, 1223-33	7.3	214

1	Reconstitution of a microtubule plus-end tracking system in vitro. *Nature*, **2007**, 450, 1100-5	50.4	369