

Peter Bieling

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5964763/publications.pdf>

Version: 2024-02-01

19
papers

2,210
citations

516215

16
h-index

839053

18
g-index

29
all docs

29
docs citations

29
times ranked

2633
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstitution of a microtubule plus-end tracking system in vitro. <i>Nature</i> , 2007, 450, 1100-1105.	13.7	457
2	A Minimal Midzone Protein Module Controls Formation and Length of Antiparallel Microtubule Overlaps. <i>Cell</i> , 2010, 142, 420-432.	13.5	282
3	CLIP-170 tracks growing microtubule ends by dynamically recognizing composite EB1/tubulin-binding sites. <i>Journal of Cell Biology</i> , 2008, 183, 1223-1233.	2.3	269
4	Force Feedback Controls Motor Activity and Mechanical Properties of Self-Assembling Branched Actin Networks. <i>Cell</i> , 2016, 164, 115-127.	13.5	223
5	Structural transitions of F-actin upon ATP hydrolysis at near-atomic resolution revealed by cryo-EM. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 528-537.	3.6	171
6	Actomyosin dynamics drive local membrane component organization in an in vitro active composite layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1645-54.	3.3	131
7	Fluorescence Microscopy Assays on Chemically Functionalized Surfaces for Quantitative Imaging of Microtubule, Motor, and +TIP Dynamics. <i>Methods in Cell Biology</i> , 2010, 95, 555-580.	0.5	108
8	Processive kinesins require loose mechanical coupling for efficient collective motility. <i>EMBO Reports</i> , 2008, 9, 1121-1127.	2.0	105
9	Profilin and formin constitute a pacemaker system for robust actin filament growth. <i>ELife</i> , 2019, 8, .	2.8	80
10	WH2 and proline-rich domains of WASP-family proteins collaborate to accelerate actin filament elongation. <i>EMBO Journal</i> , 2018, 37, 102-121.	3.5	77
11	Microtubule Motility on Reconstituted Meiotic Chromatin. <i>Current Biology</i> , 2010, 20, 763-769.	1.8	60
12	A barbed end interference mechanism reveals how capping protein promotes nucleation in branched actin networks. <i>Nature Communications</i> , 2021, 12, 5329.	5.8	57
13	Extraction of active RhoGTPases by RhoGDI regulates spatiotemporal patterning of RhoGTPases. <i>ELife</i> , 2019, 8, .	2.8	52
14	From solution to surface to filament: actin flux into branched networks. <i>Biophysical Reviews</i> , 2018, 10, 1537-1551.	1.5	42
15	Stochastic geometry sensing and polarization in a lipid kinase-phosphatase competitive reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15013-15022.	3.3	41
16	Cryo-EM Resolves Molecular Recognition Of An Opto-actin Photoswitch Bound To Actin Filaments In Both Switch States. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8678-8682.	7.2	20
17	The molecular mechanism of load adaptation by branched actin networks. <i>ELife</i> , 0, 11, .	2.8	16
18	Micropattern-Guided Assembly of Overlapping Pairs of Dynamic Microtubules. <i>Methods in Enzymology</i> , 2014, 540, 339-360.	0.4	8

#	ARTICLE	IF	CITATIONS
19	Cryo-EM Resolves Molecular Recognition Of An Optojasp Photoswitch Bound To Actin Filaments In Both Switch States. <i>Angewandte Chemie</i> , 2021, 133, 8760-8764.	1.6	4