Sebastian FÃ¼rthauer

List of Publications by Year
in descending order

17 papers	750 citations	759233 12 h-index	888059 17 g-index
23 all docs	23 docs citations	23 times ranked	807 citing authors

#	Article	IF	Citations
1	Active torque generation by the actomyosin cell cortex drives leftâ€“right symmetry breaking. ELife, 2014, 3, e04165.	6.0	197
2	Active contraction of microtubule networks. ELife, 2015, 4, .	6.0	112
3	C. elegans chromosomes connect to centrosomes by anchoring into the spindle network. Nature Communications, 2017, 8, 15288.	12.8	101
4	Actomyosin-driven left-right asymmetry: from molecular torques to chiral self organization. Current Opinion in Cell Biology, 2016, 38, 24-30.	5.4	61
5	Morphogenetic degeneracies in the actomyosin cortex. ELife, 2018, 7, .	6.0	41
6	A hydraulic instability drives the cell death decision in the nematode germline. Nature Physics, 2021, 17, 920-925.	16.7	38
7	Self-straining of actively crosslinked microtubule networks. Nature Physics, 2019, 15, 1295-1300.	16.7	37
8	Co-movement of astral microtubules, organelles and F-actin by dynein and actomyosin forces in frog egg cytoplasm. ELife, 2020, 9, .	6.0	29
9	A multiscale biophysical model gives quantized metachronal waves in a lattice of beating cilia. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	27
10	Measuring and modeling polymer concentration profiles near spindle boundaries argues that spindle microtubules regulate their own nucleation. New Journal of Physics, 2018, 20, 055012.	2.9	20
11	Phase-Synchronized State of Oriented Active Fluids. Physical Review Letters, 2013, 111, 238102.	7.8	18
12	From cytoskeletal assemblies to living materials. Current Opinion in Cell Biology, 2019, 56, 109-114.	5.4	15
13	Connecting macroscopic dynamics with microscopic properties in active microtubule network contraction. New Journal of Physics, 2017, 19, 125011.	2.9	14
14	A design framework for actively crosslinked filament networks. New Journal of Physics, 2021, 23, 013012.	2.9	14
15	Microtubule reorganization during female meiosis in C. elegans. ELife, 2021, 10, .	6.0	11
16	Current approaches for the analysis of spindle organization. Current Opinion in Structural Biology, 2019, 58, 269-277.	5.7	8
17	How Cross-Link Numbers Shape the Large-Scale Physics of Cytoskeletal Materials. Annual Review of Condensed Matter Physics, 2022, 13, 365-384.	14.5	2