

Sebastian FÃ¼rthauer

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	A hydraulic instability drives the cell death decision in the nematode germline. Nature Physics, 2021, 17, 920-925.	16.7	38
4	Microtubule reorganization during female meiosis in <i>C. elegans</i> . ELife, 2021, 10, .	6.0	11
5	A design framework for actively crosslinked filament networks. New Journal of Physics, 2021, 23, 013012.	2.9	14
6	Co-movement of astral microtubules, organelles and F-actin by dynein and actomyosin forces in frog egg cytoplasm. ELife, 2020, 9, .	6.0	29
7	Current approaches for the analysis of spindle organization. Current Opinion in Structural Biology, 2019, 58, 269-277.	5.7	8
8	Self-straining of actively crosslinked microtubule networks. Nature Physics, 2019, 15, 1295-1300.	16.7	37
9	From cytoskeletal assemblies to living materials. Current Opinion in Cell Biology, 2019, 56, 109-114.	5.4	15
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	Morphogenetic degeneracies in the actomyosin cortex. ELife, 2018, 7, .	6.0	41
12	<i>C. elegans</i> chromosomes connect to centrosomes by anchoring into the spindle network. Nature Communications, 2017, 8, 15288.	12.8	101
13	Connecting macroscopic dynamics with microscopic properties in active microtubule network contraction. New Journal of Physics, 2017, 19, 125011.	2.9	14
14	Actomyosin-driven left-right asymmetry: from molecular torques to chiral self organization. Current Opinion in Cell Biology, 2016, 38, 24-30.	5.4	61
15	Active contraction of microtubule networks. ELife, 2015, 4, .	6.0	112
16	Active torque generation by the actomyosin cell cortex drives left-right symmetry breaking. ELife, 2014, 3, e04165.	6.0	197
17	Phase-Synchronized State of Oriented Active Fluids. Physical Review Letters, 2013, 111, 238102.	7.8	18