

Karin John

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

984
citations

567281

15
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

1006
citing authors

#	ARTICLE	IF	CITATIONS
1	Microtubules self-repair in response to mechanical stress. <i>Nature Materials</i> , 2015, 14, 1156-1163.	27.5	244
2	Self-repair promotes microtubule rescue. <i>Nature Cell Biology</i> , 2016, 18, 1054-1064.	10.3	153
3	Lattice defects induce microtubule self-renewal. <i>Nature Physics</i> , 2019, 15, 830-838.	16.7	79
4	Dynamical Model for Chemically Driven Running Droplets. <i>Physical Review Letters</i> , 2004, 93, 027802.	7.8	70
5	Self-repair protects microtubules from destruction by molecular motors. <i>Nature Materials</i> , 2021, 20, 883-891.	27.5	67
6	Modulation of ATP/ADP Concentration at the Endothelial Surface by Shear Stress: Effect of Flow-Induced ATP Release. <i>Annals of Biomedical Engineering</i> , 2001, 29, 740-751.	2.5	64
7	CLASP Mediates Microtubule Repair by Restricting Lattice Damage and Regulating Tubulin Incorporation. <i>Current Biology</i> , 2020, 30, 2175-2183.e6.	3.9	50
8	Self-Ratcheting Stokes Drops Driven by Oblique Vibrations. <i>Physical Review Letters</i> , 2010, 104, 107801.	7.8	49
9	Alternative Mechanisms of Structuring Biomembranes: Self-Assembly versus Self-Organization. <i>Physical Review Letters</i> , 2005, 95, 198101.	7.8	40
10	Ratchet-driven fluid transport in bounded two-layer films of immiscible liquids. <i>Soft Matter</i> , 2008, 4, 1183.	2.7	35
11	Nonlinear Study of Symmetry Breaking in Actin Gels: Implications for Cellular Motility. <i>Physical Review Letters</i> , 2008, 100, 068101.	7.8	32
12	Equilibrium Contact Angle and Adsorption Layer Properties with Surfactants. <i>Langmuir</i> , 2018, 34, 7210-7221.	3.5	24
13	Travelling lipid domains in a dynamic model for protein-induced pattern formation in biomembranes. <i>Physical Biology</i> , 2005, 2, 123-132.	1.8	22
14	Transport of free surface liquid films and drops by external ratchets and self-ratcheting mechanisms. <i>Chemical Physics</i> , 2010, 375, 578-586.	1.9	19
15	Liquid transport generated by a flashing field-induced wettability ratchet. <i>Applied Physics Letters</i> , 2007, 90, 264102.	3.3	15
16	Thin-film modeling of resting and moving active droplets. <i>Physical Review E</i> , 2020, 101, 062802.	2.1	14
17	Spontaneous polarization in an interfacial growth model for actin filament networks with a rigorous mechanochemical coupling. <i>Physical Review E</i> , 2014, 90, 052706.	2.1	3
18	Traveling waves and global oscillations triggered by attractive molecular interactions in an excitable system. <i>Physical Review E</i> , 2014, 90, 052913.	2.1	3