

Jaime Agudo-Canalejo

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,215
citations

567281

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414414

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36
all docs

36
docs citations

36
times ranked

1713
citing authors

#	ARTICLE	IF	CITATIONS
1	Wrapping of nanoparticles by membranes. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 214-224.	14.7	186
2	Critical Particle Sizes for the Engulfment of Nanoparticles by Membranes and Vesicles with Bilayer Asymmetry. <i>ACS Nano</i> , 2015, 9, 3704-3720.	14.6	148
3	Wetting regulates autophagy of phase-separated compartments and the cytosol. <i>Nature</i> , 2021, 591, 142-146.	27.8	140
4	Active Phase Separation in Mixtures of Chemically Interacting Particles. <i>Physical Review Letters</i> , 2019, 123, 018101.	7.8	91
5	Patterns of Flexible Nanotubes Formed by Liquid-Ordered and Liquid-Disordered Membranes. <i>ACS Nano</i> , 2016, 10, 463-474.	14.6	79
6	Phoresis and Enhanced Diffusion Compete in Enzyme Chemotaxis. <i>Nano Letters</i> , 2018, 18, 2711-2717.	9.1	72
7	Scalar Active Mixtures: The Nonreciprocal Cahn-Hilliard Model. <i>Physical Review X</i> , 2020, 10, .	8.9	59
8	Membrane Nanotubes Increase the Robustness of Giant Vesicles. <i>ACS Nano</i> , 2018, 12, 4478-4485.	14.6	56
9	Enhanced Diffusion and Chemotaxis at the Nanoscale. <i>Accounts of Chemical Research</i> , 2018, 51, 2365-2372.	15.6	53
10	Adhesive Nanoparticles as Local Probes of Membrane Curvature. <i>Nano Letters</i> , 2015, 15, 7168-7173.	9.1	38
11	Uniform and Janus-like nanoparticles in contact with vesicles: energy landscapes and curvature-induced forces. <i>Soft Matter</i> , 2017, 13, 2155-2173.	2.7	32
12	Modulating Vesicle Adhesion by Electric Fields. <i>Biophysical Journal</i> , 2016, 111, 1454-1464.	0.5	29
13	Wrapping of Microparticles by Floppy Lipid Vesicles. <i>Physical Review Letters</i> , 2020, 125, 198102.	7.8	29
14	Chemotactic self-caging in active emulsions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	29
15	Stabilization of membrane necks by adhesive particles, substrate surfaces, and constriction forces. <i>Soft Matter</i> , 2016, 12, 8155-8166.	2.7	20
16	Domes and cones: Adhesion-induced fission of membranes by ESCRT proteins. <i>PLoS Computational Biology</i> , 2018, 14, e1006422.	3.2	19
17	Molecular Diffusivity of Click Reaction Components: The Diffusion Enhancement Question. <i>Journal of the American Chemical Society</i> , 2022, 144, 1380-1388.	13.7	16
18	Cooperatively enhanced reactivity and "stabilization" of dissociating oligomeric proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11894-11900.	7.1	15

#	ARTICLE	IF	CITATIONS
19	Non-equilibrium phase separation in mixtures of catalytically active particles: size dispersity and screening effects. <i>European Physical Journal E</i> , 2021, 44, 113.	1.6	15
20	Diffusion and steady state distributions of flexible chemotactic enzymes. <i>European Physical Journal: Special Topics</i> , 2020, 229, 2791-2806.	2.6	12
21	Chemical and hydrodynamic alignment of an enzyme. <i>Journal of Chemical Physics</i> , 2019, 150, 115102.	3.0	10
22	Pattern formation by curvature-inducing proteins on spherical membranes. <i>New Journal of Physics</i> , 2017, 19, 125013.	2.9	9
23	Topology Protects Chiral Edge Currents in Stochastic Systems. <i>Physical Review X</i> , 2021, 11, .	8.9	9
24	Biomembrane Adhesion to Substrates Topographically Patterned with Nanopits. <i>Biophysical Journal</i> , 2018, 115, 1292-1306.	0.5	7
25	Dynamics of spontaneous wrapping of microparticles by floppy lipid membranes. <i>Physical Review Research</i> , 2022, 4, .	3.6	7
26	Particle engulfment by strongly asymmetric membranes with area reservoirs. <i>Soft Matter</i> , 2021, 17, 298-307.	2.7	6
27	Should I bend or should I grow: the mechanisms of droplet-mediated autophagosome formation. <i>Autophagy</i> , 2021, 17, 1046-1048.	9.1	6
28	Synchronization and Enhanced Catalysis of Mechanically Coupled Enzymes. <i>Physical Review Letters</i> , 2021, 127, 208103.	7.8	6
29	Formation of Autophagosomes Coincides with Relaxation of Membrane Curvature. <i>Methods in Molecular Biology</i> , 2019, 1880, 173-188.	0.9	5
30	Engulfment of ellipsoidal nanoparticles by membranes: full description of orientational changes. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 294001.	1.8	5
31	Self-assembled vesicle“colloid hybrid swimmers: Non-reciprocal strokes with reciprocal actuation. <i>Chinese Physics B</i> , 2020, 29, 064704.	1.4	1
32	Engulfment of nanoparticles by membranes. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2019, , 195-227.	0.6	0