

Jure Dobnikar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2954871/publications.pdf>

Version: 2024-02-01

60
papers

1,916
citations

279798

23
h-index

265206

42
g-index

62
all docs

62
docs citations

62
times ranked

2342
citing authors

#	ARTICLE	IF	CITATIONS
1	Small Obstacle in a Large Polar Flock. <i>Physical Review Letters</i> , 2022, 128, .	7.8	7
2	The Lennard-Jones potential: when (not) to use it. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10624-10633.	2.8	133
3	Effect of the interaction strength and anisotropy on the diffusio-phoresis of spherical colloids. <i>Soft Matter</i> , 2020, 16, 3621-3627.	2.7	4
4	Computational design of probes to detect bacterial genomes by multivalent binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8719-8726.	7.1	14
5	Spontaneous Domain Formation in Spherically Confined Elastic Filaments. <i>Physical Review Letters</i> , 2019, 123, 047801.	7.8	17
6	Effect of Topographical Steps on the Surface Motility of the Bacterium <i>Pseudomonas aeruginosa</i> . <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6436-6445.	5.2	9
7	Membrane potential drives direct translocation of cell-penetrating peptides. <i>Nanoscale</i> , 2019, 11, 1949-1958.	5.6	36
8	Dynamic Assembly of Magnetic Nanocolloids. <i>Frontiers of Nanoscience</i> , 2019, 13, 23-36.	0.6	2
9	Controlling the morphological evolution of a particle-stabilized binary-component system. <i>Chemical Communications</i> , 2019, 55, 5575-5578.	4.1	9
10	Active microrheology in two-dimensional magnetic networks. <i>Soft Matter</i> , 2019, 15, 4437-4444.	2.7	5
11	Particle-stabilized Janus emulsions that exhibit pH-tunable stability. <i>Chemical Communications</i> , 2019, 55, 5773-5776.	4.1	11
12	Controlling Cargo Trafficking in Multicomponent Membranes. <i>Nano Letters</i> , 2018, 18, 5350-5356.	9.1	19
13	Bonding interactions between ligand-decorated colloidal particles. <i>Molecular Physics</i> , 2018, 116, 3392-3400.	1.7	7
14	Research progress of bicontinuous interfacially jammed emulsion gel (Bijel). <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 144701.	0.5	6
15	Emergence of complex behavior in pili-based motility in early stages of <i>P. aeruginosa</i> surface adaptation. <i>Scientific Reports</i> , 2017, 7, 45467.	3.3	13
16	Crystallinity of Double-Stranded RNA-Antimicrobial Peptide Complexes Modulates Toll-Like Receptor 3-Mediated Inflammation. <i>ACS Nano</i> , 2017, 11, 12145-12155.	14.6	30
17	Optimal multivalent targeting of membranes with many distinct receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7210-7215.	7.1	71
18	What experiments on pinned nanobubbles can tell about the critical nucleus for bubble nucleation. <i>European Physical Journal E</i> , 2017, 40, 114.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Dynamic Assembly of Magnetic Colloidal Vortices. <i>Langmuir</i> , 2016, 32, 5094-5101.	3.5	23
20	Assembly of Superparamagnetic Filaments in External Field. <i>Langmuir</i> , 2016, 32, 9321-9328.	3.5	20
21	The crucial effect of early-stage gelation on the mechanical properties of cement hydrates. <i>Nature Communications</i> , 2016, 7, 12106.	12.8	109
22	A review of immune amplification via ligand clustering by self-assembled liquid-crystalline DNA complexes. <i>Advances in Colloid and Interface Science</i> , 2016, 232, 17-24.	14.7	18
23	Two-dimensional magnetic colloids under shear. <i>Soft Matter</i> , 2016, 12, 3142-3148.	2.7	7
24	Rational design of molecularly imprinted polymers. <i>Soft Matter</i> , 2016, 12, 35-44.	2.7	44
25	Spontaneous Wenzel to Cassie dewetting transition on structured surfaces. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	36
26	The Effect of Attractive Interactions and Macromolecular Crowding on Crystallins Association. <i>PLoS ONE</i> , 2016, 11, e0151159.	2.5	7
27	Liquid-crystalline ordering of antimicrobial peptide-DNA complexes controls TLR9 activation. <i>Nature Materials</i> , 2015, 14, 696-700.	27.5	75
28	Designing stimulus-sensitive colloidal walkers. <i>Soft Matter</i> , 2014, 10, 3463-3470.	2.7	13
29	Pattern Formation and Coarse-Graining in Two-Dimensional Colloids Driven by Multiaxial Magnetic Fields. <i>Langmuir</i> , 2014, 30, 5088-5096.	3.5	50
30	Nanoparticle Organization in Sandwiched Polymer Brushes. <i>Nano Letters</i> , 2014, 14, 2617-2622.	9.1	37
31	Emergent colloidal dynamics in electromagnetic fields. <i>Soft Matter</i> , 2013, 9, 3693.	2.7	100
32	Collective ordering of colloids in grafted polymer layers. <i>Soft Matter</i> , 2013, 9, 5565.	2.7	19
33	Chemotactic Sensing towards Ambient and Secreted Attractant Drives Collective Behaviour of <i>E. coli</i> . <i>PLoS ONE</i> , 2013, 8, e74878.	2.5	16
34	Phase behaviour of colloidal assemblies on 2D corrugated substrates. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284118.	1.8	1
35	Predicting DNA-mediated colloidal pair interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E378-9; author reply E380.	7.1	30
36	Layering, freezing, and re-entrant melting of hard spheres in soft confinement. <i>Physical Review E</i> , 2012, 85, 021502.	2.1	18

#	ARTICLE	IF	CITATIONS
37	Coarse Graining Escherichia coli Chemotaxis: From Multi-flagella Propulsion to Logarithmic Sensing. <i>Advances in Experimental Medicine and Biology</i> , 2012, 736, 381-396.	1.6	3
38	On the Origin and Characteristics of Noise-Induced Lévy Walks of E. Coli. <i>PLoS ONE</i> , 2011, 6, e18623.	2.5	45
39	Colloidal ionic complexes on periodic substrates: Ground-state configurations and pattern switching. <i>Physical Review E</i> , 2011, 83, 041403.	2.1	8
40	Dimeric and dipolar ground state orders in colloidal molecular crystals. <i>Anais Da Academia Brasileira De Ciencias</i> , 2010, 82, 87-94.	0.8	3
41	Field-Induced Self-Assembly of Suspended Colloidal Membranes. <i>Physical Review Letters</i> , 2009, 103, 228301.	7.8	127
42	E. coli Superdiffusion and Chemotaxis Search Strategy, Precision, and Motility. <i>Biophysical Journal</i> , 2009, 97, 946-957.	0.5	85
43	Counterion-mediated electrostatic interactions between helical molecules. <i>Soft Matter</i> , 2009, 5, 868-877.	2.7	46
44	Ground states of colloidal molecular crystals on periodic substrates. <i>Soft Matter</i> , 2008, 4, 1491.	2.7	23
45	Phonon dispersion curves of two-dimensional colloidal crystals: the wavelength-dependence of friction. <i>Soft Matter</i> , 2008, 4, 2199.	2.7	16
46	Ground states of model core-softened colloids. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494220.	1.8	21
47	Observation of Condensed Phases of Quasiplanar Core-Softened Colloids. <i>Physical Review Letters</i> , 2007, 99, 248301.	7.8	98
48	Testing the relevance of effective interaction potentials between highly-charged colloids in suspension. <i>New Journal of Physics</i> , 2006, 8, 277-277.	2.9	54
49	Three-body interactions in colloidal systems. <i>Physical Review E</i> , 2004, 69, 031402.	2.1	51
50	Direct Measurement of Three-Body Interactions amongst Charged Colloids. <i>Physical Review Letters</i> , 2004, 92, 078301.	7.8	110
51	Three- and four-body interactions in colloidal systems. , 2004, , .		1
52	Poisson Boltzmann Brownian dynamics of charged colloids in suspension. <i>Computer Physics Communications</i> , 2004, 159, 73-92.	7.5	20
53	Many-body interactions and the melting of colloidal crystals. <i>Journal of Chemical Physics</i> , 2003, 119, 4971-4985.	3.0	53
54	Effect of many-body interactions on the solid-liquid phase behavior of charge-stabilized colloidal suspensions. <i>Europhysics Letters</i> , 2003, 61, 695-701.	2.0	29

#	ARTICLE	IF	CITATIONS
55	Casimir and pseudo-Casimir interactions in confined polyelectrolytes. Journal of Chemical Physics, 2001, 115, 1951-1959.	3.0	5
56	Pseudo-Casimir force in confined nematic polymers. Europhysics Letters, 2001, 53, 735-741.	2.0	9
57	Multi-component random model of diffusion in chaotic systems. Journal of Physics A, 1999, 32, 1147-1162.	1.6	1
58	Energy level statistics in the transition regime between integrability and chaos for systems without an anti-unitary symmetry. Journal of Physics A, 1999, 32, 1427-1438.	1.6	6
59	New universal aspects of diffusion in strongly chaotic systems. Journal of Physics A, 1997, 30, L803-L813.	1.6	24
60	Effect of social distancing on super-spreading diseases: why pandemics modelling is more challenging than molecular simulation. Molecular Physics, 0, , e1936247.	1.7	1