

Ali Naji

List of Publications by Year in descending order

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69
papers

2,424
citations

201385

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214527

47
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71
all docs

71
docs citations

71
times ranked

1724
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatic interactions between the SARS-CoV-2 virus and a charged electret fibre. <i>Soft Matter</i> , 2021, 17, 4296-4303.	1.2	33
2	Active particles with polar alignment in ring-shaped confinement. <i>Physical Review E</i> , 2021, 103, 022601.	0.8	10
3	Noncentral forces mediated between two inclusions in a bath of active Brownian rods. <i>Scientific Reports</i> , 2021, 11, 23100.	1.6	3
4	Dimeric colloidal inclusion in a chiral active bath: Effective interactions and chirality-induced torque. <i>Physical Review E</i> , 2021, 104, 064610.	0.8	3
5	Effective interactions mediated between two permeable disks in an active fluid. <i>Scientific Reports</i> , 2020, 10, 15570.	1.6	5
6	Confinement-induced alternating interactions between inclusions in an active fluid. <i>Physical Review E</i> , 2020, 102, 032613.	0.8	11
7	Active dipolar spheroids in shear flow and transverse field: Population splitting, cross-stream migration, and orientational pinning. <i>Journal of Chemical Physics</i> , 2020, 152, 204903.	1.2	3
8	Surface alignment disorder and thermal Casimir forces in smectic-A liquid crystalline films. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 325103.	0.7	0
9	Role of metallic core for the stability of virus-like particles in strongly coupled electrostatics. <i>Scientific Reports</i> , 2019, 9, 3884.	1.6	7
10	Casimir-like interactions and surface anchoring duality in bookshelf geometry of smectic-A liquid crystals. <i>Soft Matter</i> , 2019, 15, 2216-2222.	1.2	5
11	Charged nanorods at heterogeneously charged surfaces. <i>Journal of Chemical Physics</i> , 2018, 149, 134702.	1.2	5
12	Active fluids at circular boundaries: swim pressure and anomalous droplet ripening. <i>Soft Matter</i> , 2018, 14, 4820-4834.	1.2	19
13	Re-entrant bimodality in spheroidal chiral swimmers in shear flow. <i>Scientific Reports</i> , 2018, 8, 8328.	1.6	3
14	Hydrodynamic stress correlations in fluid films driven by stochastic surface forcing. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	4
15	Population splitting of rodlike swimmers in Couette flow. <i>Soft Matter</i> , 2017, 13, 4494-4506.	1.2	12
16	Effective interactions between inclusions in an active bath. <i>Journal of Chemical Physics</i> , 2017, 147, 194901.	1.2	28
17	Pseudo-Casimir stresses and elasticity of a confined elastomer film. <i>Soft Matter</i> , 2016, 12, 4384-4396.	1.2	2
18	Van der Waals interactions between polymers with sequence-specific polarizabilities: Stiff polymers and Gaussian coils. <i>International Journal of Modern Physics A</i> , 2016, 31, 1641035.	0.5	2

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19	Hydrodynamic fluctuation-induced forces in confined fluids. <i>Soft Matter</i> , 2016, 12, 441-459.	1.2	7
20	Ion-mediated interactions between net-neutral slabs: Weak and strong disorder effects. <i>Journal of Chemical Physics</i> , 2015, 143, 234701.	1.2	8
21	Strong coupling electrostatics for randomly charged surfaces: antifragility and effective interactions. <i>Soft Matter</i> , 2015, 11, 3441-3459.	1.2	9
22	Molecular recognition by van der Waals interaction between polymers with sequence-specific polarizabilities. <i>Journal of Chemical Physics</i> , 2015, 142, 214904.	1.2	19
23	Asymmetric Coulomb fluids at randomly charged dielectric interfaces: Anti-fragility, overcharging and charge inversion. <i>Journal of Chemical Physics</i> , 2014, 141, 174704.	1.2	29
24	Pseudo-Casimir interactions across nematic films with disordered anchoring axis. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 075103.	0.7	10
25	Fluctuation-induced interactions in nematics with disordered anchoring energy. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 505101.	0.7	2
26	Global analysis of the ground-state wrapping conformation of a charged polymer on an oppositely charged nano-sphere. <i>European Physical Journal E</i> , 2014, 37, 21.	0.7	11
27	Structure-function hierarchies and von Kármán-Howarth relations for turbulence in magnetohydrodynamical equations. <i>Physical Review E</i> , 2014, 89, 012117.	0.8	4
28	Coulomb Interactions between Disordered Charge Distributions. , 2014, , 367-380.		0
29	Electrostatic stability and encapsidation of charged nano-droplets. <i>Soft Matter</i> , 2013, 9, 11357.	1.2	6
30	Perspective: Coulomb fluids—Weak coupling, strong coupling, in between and beyond. <i>Journal of Chemical Physics</i> , 2013, 139, 150901.	1.2	145
31	Multivalent ion effects on electrostatic stability of virus-like nano-shells. <i>Journal of Chemical Physics</i> , 2013, 139, 154709.	1.2	21
32	Attraction between neutral dielectrics mediated by multivalent ions in an asymmetric ionic fluid. <i>Journal of Chemical Physics</i> , 2012, 137, 174704.	1.2	29
33	Electromagnetic fluctuation-induced interactions in randomly charged slabs. <i>Journal of Chemical Physics</i> , 2012, 137, 114704.	1.2	12
34	Wrapping transition and wrapping-mediated interactions for discrete binding along an elastic filament: An exact solution. <i>Journal of Chemical Physics</i> , 2012, 137, 144904.	1.2	7
35	Sample-to-sample torque fluctuations in a system of coaxial randomly charged surfaces. <i>European Physical Journal E</i> , 2012, 35, 1-7.	0.7	15
36	Salt-modulated structure of polyelectrolyte-macroion complex fibers. <i>European Physical Journal E</i> , 2011, 34, 72.	0.7	10

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37	Sample-to-sample fluctuations of electrostatic forces generated by quenched charge disorder. <i>Physical Review E</i> , 2011, 83, 011102.	0.8	15
38	Dressed counterions: Polyvalent and monovalent ions at charged dielectric interfaces. <i>Physical Review E</i> , 2011, 84, 011502.	0.8	41
39	Many-body effects in the van der Waals-Casimir interaction between graphene layers. <i>Physical Review B</i> , 2011, 84, .	1.1	82
40	Effects of dielectric disorder on van der Waals interactions in slab geometries. <i>Physical Review E</i> , 2010, 81, 051117.	0.8	20
41	Exotic Electrostatics: Unusual Features of Electrostatic Interactions between Macroions. <i>Series in Sof Condensed Matter</i> , 2010, , 265-295.	0.1	12
42	Counterion-mediated weak and strong coupling electrostatic interaction between like-charged cylindrical dielectrics. <i>Journal of Chemical Physics</i> , 2010, 132, 224703.	1.2	38
43	Nonmonotonic fluctuation-induced interactions between dielectric slabs carrying charge disorder. <i>Journal of Chemical Physics</i> , 2010, 133, 174702.	1.2	26
44	Fluctuation-Induced Interaction between Randomly Charged Dielectrics. <i>Physical Review Letters</i> , 2010, 104, 060601.	2.9	48
45	Diffusive motion of C_{60} on a graphene sheet. <i>Physical Review E</i> , 2010, 82, 051605.	1.2	44
46	Dressed counterions: Strong electrostatic coupling in the presence of salt. <i>Journal of Chemical Physics</i> , 2010, 132, 124701.	1.2	50
47	Thermal Casimir effect between random layered dielectrics. <i>Physical Review A</i> , 2009, 79, .	1.0	17
48	Hybrid Elastic and Discrete-Particle Approach to Biomembrane Dynamics with Application to the Mobility of Curved Integral Membrane Proteins. <i>Physical Review Letters</i> , 2009, 102, 138102.	2.9	68
49	The role of multipoles in counterion-mediated interactions between charged surfaces: strong and weak coupling. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 424103.	0.7	41
50	One-dimensional counterion gas between charged surfaces: Exact results compared with weak- and strong-coupling analyses. <i>Journal of Chemical Physics</i> , 2009, 130, 094504.	1.2	30
51	Partially Annealed Disorder and Collapse of Like-Charged Macroions. <i>Journal of Statistical Physics</i> , 2008, 133, 659-681.	0.5	29
52	Ionic cloud distribution close to a charged surface in the presence of salt. <i>Europhysics Letters</i> , 2008, 82, 48001.	0.7	18
53	Weak- and strong-coupling electrostatic interactions between asymmetrically charged planar surfaces. <i>Physical Review E</i> , 2008, 78, 061105.	0.8	42
54	Strong-Coupling Electrostatics in the Presence of Dielectric Inhomogeneities. <i>Physical Review Letters</i> , 2008, 101, 188101.	2.9	66

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55	Salt-Induced Counterion-Mobility Anomaly in Polyelectrolyte Electrophoresis. <i>Physical Review Letters</i> , 2008, 101, 176103.	2.9	28
56	Diffusion on ruffled membrane surfaces. <i>Journal of Chemical Physics</i> , 2007, 126, 235103.	1.2	60
57	Corrections to the Saffman-Delbrück Mobility for Membrane Bound Proteins. <i>Biophysical Journal</i> , 2007, 93, L49-L51.	0.2	90
58	Scaling and universality in the counterion-condensation transition at charged cylinders. <i>Physical Review E</i> , 2006, 73, 056105.	0.8	55
59	Electrical Detection of Self-Assembled Polyelectrolyte Multilayers by a Thin Film Resistor. <i>Macromolecules</i> , 2006, 39, 463-466.	2.2	54
60	Electrostatic disorder-induced interactions in inhomogeneous dielectrics. <i>Europysics Letters</i> , 2006, 74, 712-718.	0.7	31
61	Electrostatic interactions in strongly coupled soft matter. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 352, 131-170.	1.2	171
62	Statics and dynamics of strongly charged soft matter. <i>Physics Reports</i> , 2005, 416, 129-199.	10.3	306
63	Quenched charge disorder and Coulomb interactions. <i>Physical Review E</i> , 2005, 72, 041402.	0.8	40
64	Counterions at Charged Cylinders: Criticality and Universality beyond Mean-Field Theory. <i>Physical Review Letters</i> , 2005, 95, 185703.	2.9	57
65	Attraction and unbinding of like-charged rods. <i>Europysics Letters</i> , 2004, 67, 130-136.	0.7	53
66	Attraction of like-charged macroions in the strong-coupling limit. <i>European Physical Journal E</i> , 2004, 13, 43-59.	0.7	80
67	Nonlinear Osmotic Brush Regime: Experiments, Simulations and Scaling Theory. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16870-16876.	1.2	63
68	Non-linear osmotic brush regime: Simulations and mean-field theory. <i>European Physical Journal E</i> , 2003, 12, 223-237.	0.7	65
69	Theoretical Approaches to Neutral and Charged Polymer Brushes. , 0, , 149-183.		77