

Ali Naji

List of Publications by Year in descending order

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69
papers

2,424
citations

201385

27
h-index

214527

47
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71
all docs

71
docs citations

71
times ranked

1724
citing authors

#	ARTICLE	IF	CITATIONS
1	Statics and dynamics of strongly charged soft matter. <i>Physics Reports</i> , 2005, 416, 129-199.	10.3	306
2	Electrostatic interactions in strongly coupled soft matter. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 352, 131-170.	1.2	171
3	Perspective: Coulomb fluids—Weak coupling, strong coupling, in between and beyond. <i>Journal of Chemical Physics</i> , 2013, 139, 150901.	1.2	145
4	Corrections to the Saffman-Delbrück Mobility for Membrane Bound Proteins. <i>Biophysical Journal</i> , 2007, 93, L49-L51.	0.2	90
5	Many-body effects in the van der Waals—Casimir interaction between graphene layers. <i>Physical Review B</i> , 2011, 84, .	1.1	82
6	Attraction of like-charged macroions in the strong-coupling limit. <i>European Physical Journal E</i> , 2004, 13, 43-59.	0.7	80
7	Theoretical Approaches to Neutral and Charged Polymer Brushes. , 0, , 149-183.		77
8	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
9	Strong-Coupling Electrostatics in the Presence of Dielectric Inhomogeneities. <i>Physical Review Letters</i> , 2008, 101, 188101.	2.9	66
10	Non-linear osmotic brush regime: Simulations and mean-field theory. <i>European Physical Journal E</i> , 2003, 12, 223-237.	0.7	65
11	Nonlinear Osmotic Brush Regime: Experiments, Simulations and Scaling Theory. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16870-16876.	1.2	63
12	Diffusion on ruffled membrane surfaces. <i>Journal of Chemical Physics</i> , 2007, 126, 235103.	1.2	60
13	Counterions at Charged Cylinders: Criticality and Universality beyond Mean-Field Theory. <i>Physical Review Letters</i> , 2005, 95, 185703.	2.9	57
14	Scaling and universality in the counterion-condensation transition at charged cylinders. <i>Physical Review E</i> , 2006, 73, 056105.	0.8	55
15	Electrical Detection of Self-Assembled Polyelectrolyte Multilayers by a Thin Film Resistor. <i>Macromolecules</i> , 2006, 39, 463-466.	2.2	54
16	Attraction and unbinding of like-charged rods. <i>Europhysics Letters</i> , 2004, 67, 130-136.	0.7	53
17	Dressed counterions: Strong electrostatic coupling in the presence of salt. <i>Journal of Chemical Physics</i> , 2010, 132, 124701.	1.2	50
18	Fluctuation-Induced Interaction between Randomly Charged Dielectrics. <i>Physical Review Letters</i> , 2010, 104, 060601.	2.9	48

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19	Diffusive motion of C_{60} on a graphene sheet. Physical Review E, 2010, 82, 051605.	0.8	44
20	Weak- and strong-coupling electrostatic interactions between asymmetrically charged planar surfaces. Physical Review E, 2008, 78, 061105.	0.8	42
21	The role of multipoles in counterion-mediated interactions between charged surfaces: strong and weak coupling. Journal of Physics Condensed Matter, 2009, 21, 424103.	0.7	41
22	Dressed counterions: Polyvalent and monovalent ions at charged dielectric interfaces. Physical Review E, 2011, 84, 011502.	0.8	41
23	Quenched charge disorder and Coulomb interactions. Physical Review E, 2005, 72, 041402.	0.8	40
24	Counterion-mediated weak and strong coupling electrostatic interaction between like-charged cylindrical dielectrics. Journal of Chemical Physics, 2010, 132, 224703.	1.2	38
25	Electrostatic interactions between the SARS-CoV-2 virus and a charged electret fibre. Soft Matter, 2021, 17, 4296-4303.	1.2	33
26	Electrostatic disorder-induced interactions in inhomogeneous dielectrics. Europhysics Letters, 2006, 74, 712-718.	0.7	31
27	One-dimensional counterion gas between charged surfaces: Exact results compared with weak- and strong-coupling analyses. Journal of Chemical Physics, 2009, 130, 094504.	1.2	30
28	Partially Annealed Disorder and Collapse of Like-Charged Macroions. Journal of Statistical Physics, 2008, 133, 659-681.	0.5	29
29	Attraction between neutral dielectrics mediated by multivalent ions in an asymmetric ionic fluid. Journal of Chemical Physics, 2012, 137, 174704.	1.2	29
30	Asymmetric Coulomb fluids at randomly charged dielectric interfaces: Anti-fragility, overcharging and charge inversion. Journal of Chemical Physics, 2014, 141, 174704.	1.2	29
31	Salt-Induced Counterion-Mobility Anomaly in Polyelectrolyte Electrophoresis. Physical Review Letters, 2008, 101, 176103.	2.9	28
32	Effective interactions between inclusions in an active bath. Journal of Chemical Physics, 2017, 147, 194901.	1.2	28
33	Nonmonotonic fluctuation-induced interactions between dielectric slabs carrying charge disorder. Journal of Chemical Physics, 2010, 133, 174702.	1.2	26
34	Multivalent ion effects on electrostatic stability of virus-like nano-shells. Journal of Chemical Physics, 2013, 139, 154709.	1.2	21
35	Effects of dielectric disorder on van der Waals interactions in slab geometries. Physical Review E, 2010, 81, 051117.	0.8	20
36	Molecular recognition by van der Waals interaction between polymers with sequence-specific polarizabilities. Journal of Chemical Physics, 2015, 142, 214904.	1.2	19

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37	Active fluids at circular boundaries: swim pressure and anomalous droplet ripening. <i>Soft Matter</i> , 2018, 14, 4820-4834.	1.2	19
38	Ionic cloud distribution close to a charged surface in the presence of salt. <i>Europhysics Letters</i> , 2008, 82, 48001.	0.7	18
39	Thermal Casimir effect between random layered dielectrics. <i>Physical Review A</i> , 2009, 79, .	1.0	17
40	Sample-to-sample fluctuations of electrostatic forces generated by quenched charge disorder. <i>Physical Review E</i> , 2011, 83, 011102.	0.8	15
41	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
42	Exotic Electrostatics: Unusual Features of Electrostatic Interactions between Macroions. <i>Series in Sof Condensed Matter</i> , 2010, , 265-295.	0.1	12
43	Electromagnetic fluctuation-induced interactions in randomly charged slabs. <i>Journal of Chemical Physics</i> , 2012, 137, 114704.	1.2	12
44	Population splitting of rodlike swimmers in Couette flow. <i>Soft Matter</i> , 2017, 13, 4494-4506.	1.2	12
45	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
46	Confinement-induced alternating interactions between inclusions in an active fluid. <i>Physical Review E</i> , 2020, 102, 032613.	0.8	11
47	Salt-modulated structure of polyelectrolyte-macroion complex fibers. <i>European Physical Journal E</i> , 2011, 34, 72.	0.7	10
48	Pseudo-Casimir interactions across nematic films with disordered anchoring axis. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 075103.	0.7	10
49	Active particles with polar alignment in ring-shaped confinement. <i>Physical Review E</i> , 2021, 103, 022601.	0.8	10
50	Strong coupling electrostatics for randomly charged surfaces: antifragility and effective interactions. <i>Soft Matter</i> , 2015, 11, 3441-3459.	1.2	9
51	Ion-mediated interactions between net-neutral slabs: Weak and strong disorder effects. <i>Journal of Chemical Physics</i> , 2015, 143, 234701.	1.2	8
52	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
53	Hydrodynamic fluctuation-induced forces in confined fluids. <i>Soft Matter</i> , 2016, 12, 441-459.	1.2	7
54	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

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55	Electrostatic stability and encapsidation of charged nano-droplets. <i>Soft Matter</i> , 2013, 9, 11357.	1.2	6
56	Charged nanorods at heterogeneously charged surfaces. <i>Journal of Chemical Physics</i> , 2018, 149, 134702.	1.2	5
57	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
58	Effective interactions mediated between two permeable disks in an active fluid. <i>Scientific Reports</i> , 2020, 10, 15570.	1.6	5
59	Structure-function hierarchies and von Kármán-Howarth relations for turbulence in magnetohydrodynamical equations. <i>Physical Review E</i> , 2014, 89, 012117.	0.8	4
60	Hydrodynamic stress correlations in fluid films driven by stochastic surface forcing. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	4
61	Re-entrant bimodality in spheroidal chiral swimmers in shear flow. <i>Scientific Reports</i> , 2018, 8, 8328.	1.6	3
62	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
63	Noncentral forces mediated between two inclusions in a bath of active Brownian rods. <i>Scientific Reports</i> , 2021, 11, 23100.	1.6	3
64	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
65	Fluctuation-induced interactions in nematics with disordered anchoring energy. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 505101.	0.7	2
66	Pseudo-Casimir stresses and elasticity of a confined elastomer film. <i>Soft Matter</i> , 2016, 12, 4384-4396.	1.2	2
67	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
68	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
69	Coulomb Interactions between Disordered Charge Distributions. , 2014, , 367-380.		0