

# Rene van Roij

## List of Publications by Year in descending order

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194  
papers

9,306  
citations

47409

49  
h-index

54771

88  
g-index

198  
all docs

198  
docs citations

198  
times ranked

8088  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic colloidal crystals of oppositely charged particles. <i>Nature</i> , 2005, 437, 235-240.	13.7	902
2	Phase diagram of highly asymmetric binary hard-sphere mixtures. <i>Physical Review E</i> , 1999, 59, 5744-5771.	0.8	447
3	Hierarchical self-assembly of suspended branched colloidal nanocrystals into superlattice structures. <i>Nature Materials</i> , 2011, 10, 872-876.	13.3	415
4	Low-Dimensional Semiconductor Superlattices Formed by Geometric Control over Nanocrystal Attachment. <i>Nano Letters</i> , 2013, 13, 2317-2323.	4.5	218
5	Van der Waals-“Like Instability in Suspensions of Mutually Repelling Charged Colloids. <i>Physical Review Letters</i> , 1997, 79, 3082-3085.	2.9	208
6	Phase diagram of charge-stabilized colloidal suspensions: van der Waals instability without attractive forces. <i>Physical Review E</i> , 1999, 59, 2010-2025.	0.8	203
7	Phase Behavior and Structure of Binary Hard-Sphere Mixtures. <i>Physical Review Letters</i> , 1998, 81, 2268-2271.	2.9	200
8	The Electric Double Layer Has a Life of Its Own. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18291-18298.	1.5	195
9	Phase diagram of colloidal hard superballs: from cubes via spheres to octahedra. <i>Soft Matter</i> , 2012, 8, 8826.	1.2	148
10	Direct Simulation of the Phase Behavior of Binary Hard-Sphere Mixtures: Test of the Depletion Potential Description. <i>Physical Review Letters</i> , 1999, 82, 117-120.	2.9	135
11	Wetting and capillary nematization of a hard-rod fluid: A simulation study. <i>Physical Review E</i> , 2001, 63, 051703.	0.8	132
12	Charge Fluctuations in Nanoscale Capacitors. <i>Physical Review Letters</i> , 2013, 111, 106102.	2.9	129
13	Heat-to-current conversion of low-grade heat from a thermocapacitive cycle by supercapacitors. <i>Energy and Environmental Science</i> , 2015, 8, 2396-2401.	15.6	126
14	Water-in-Water Emulsions Stabilized by Nanoplates. <i>ACS Macro Letters</i> , 2015, 4, 965-968.	2.3	122
15	Dense Regular Packings of Irregular Nonconvex Particles. <i>Physical Review Letters</i> , 2011, 107, 155501.	2.9	121
16	Analysis of electrolyte transport through charged nanopores. <i>Physical Review E</i> , 2016, 93, 053108.	0.8	119
17	Phase Diagram and Structural Diversity of a Family of Truncated Cubes: Degenerate Close-Packed Structures and Vacancy-Rich States. <i>Physical Review Letters</i> , 2013, 111, 015501.	2.9	115
18	Orientational wetting and capillary nematization of hard-rod fluids. <i>Europhysics Letters</i> , 2000, 49, 350-356.	0.7	110

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19	Isotropic-Nematic Interface and Wetting in Suspensions of Colloidal Platelets. <i>Physical Review Letters</i> , 2006, 97, 087801.	2.9	107
20	Capacitive Mixing for Harvesting the Free Energy of Solutions at Different Concentrations. <i>Entropy</i> , 2013, 15, 1388-1407.	1.1	106
21	Theory of Chain Association versus Liquid Condensation. <i>Physical Review Letters</i> , 1996, 76, 3348-3351.	2.9	105
22	The electric double layer at high surface potentials: The influence of excess ion polarizability. <i>Europhysics Letters</i> , 2012, 97, 28010.	0.7	105
23	Interfaces, wetting, and capillary nematization of a hard-rod fluid: Theory for the Zwanzig model. <i>Journal of Chemical Physics</i> , 2000, 113, 7689-7701.	1.2	93
24	Entropic Wetting and Many-Body Induced Layering in a Model Colloid-Polymer Mixture. <i>Physical Review Letters</i> , 2002, 89, 208303.	2.9	93
25	“Blue energy” from ion adsorption and electrode charging in sea and river water. <i>Molecular Physics</i> , 2011, 109, 1229-1241.	0.8	89
26	Effect of many-body interactions on the bulk and interfacial phase behavior of a model colloid-polymer mixture. <i>Physical Review E</i> , 2006, 73, 041404.	0.8	82
27	Prediction and Observation of Crystal Structures of Oppositely Charged Colloids. <i>Physical Review Letters</i> , 2006, 96, 138308.	2.9	81
28	Transverse interlayer order in lyotropic smectic liquid crystals. <i>Physical Review E</i> , 1995, 52, R1277-R1280.	0.8	79
29	Self-Assembly of Colloidal Hexagonal Bipyramid- and Bifrustum-Shaped ZnS Nanocrystals into Two-Dimensional Superstructures. <i>Nano Letters</i> , 2014, 14, 1032-1037.	4.5	78
30	Ion partitioning at the oil-water interface as a source of tunable electrostatic effects in emulsions with colloids. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6405.	1.3	77
31	Blessing and Curse: How a Supercapacitor’s Large Capacitance Causes its Slow Charging. <i>Physical Review Letters</i> , 2020, 124, 076001.	2.9	76
32	Three-body forces between charged colloidal particles. <i>Physical Review E</i> , 2002, 66, 011402.	0.8	72
33	Chemical potential in active systems: predicting phase equilibrium from bulk equations of state?. <i>New Journal of Physics</i> , 2018, 20, 015003.	1.2	72
34	Translocation of DNA Molecules through Nanopores with Salt Gradients: The Role of Osmotic Flow. <i>Physical Review Letters</i> , 2011, 107, 068101.	2.9	70
35	Manipulating the self assembly of colloids in electric fields. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2895-2909.	1.2	69
36	Phase behavior of binary mixtures of thick and thin hard rods. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 261, 374-390.	1.2	66

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37	Tuning the motility and directionality of self-propelled colloids. <i>Scientific Reports</i> , 2017, 7, 14891.	1.6	66
38	Self-Assembly of Cubes into 2D Hexagonal and Honeycomb Lattices by Hexapolar Capillary Interactions. <i>Physical Review Letters</i> , 2016, 116, 258001.	2.9	65
39	Demixing versus ordering in hard-rod mixtures. <i>Physical Review E</i> , 1996, 54, 6430-6440.	0.8	62
40	Entropic Torque. <i>Physical Review Letters</i> , 2002, 89, 088301.	2.9	62
41	Entropy-driven demixing in binary hard-core mixtures: From hard spherocylinders towards hard spheres. <i>Physical Review E</i> , 1997, 56, 5594-5602.	0.8	61
42	Boosting Capacitive Blue-Energy and Desalination Devices with Waste Heat. <i>Physical Review Letters</i> , 2014, 113, 268501.	2.9	61
43	Effective interactions, structure, and isothermal compressibility of colloidal suspensions. <i>Journal of Chemical Physics</i> , 2000, 113, 4799-4807.	1.2	60
44	Gas-liquid phase coexistence in colloidal suspensions?. <i>Europhysics Letters</i> , 2001, 55, 580-586.	0.7	60
45	Polydispersity Stabilizes Biaxial Nematic Liquid Crystals. <i>Physical Review Letters</i> , 2011, 107, 148303.	2.9	54
46	Extended sedimentation profiles in charged colloids: the gravitational length, entropy, and electrostatics. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 2315-2326.	0.7	52
47	Liquid-Liquid Interfacial Tension of Electrolyte Solutions. <i>Physical Review Letters</i> , 2008, 101, 046104.	2.9	52
48	Crystal-structure prediction via the Floppy-Box Monte Carlo algorithm: Method and application to hard (non)convex particles. <i>Journal of Chemical Physics</i> , 2012, 137, 214101.	1.2	52
49	Cholesterics of colloidal helices: Predicting the macroscopic pitch from the particle shape and thermodynamic state. <i>Journal of Chemical Physics</i> , 2015, 142, 074905.	1.2	50
50	Self-Propulsion Mechanism of Active Janus Particles in Near-Critical Binary Mixtures. <i>Physical Review Letters</i> , 2015, 115, 188305.	2.9	48
51	Reversible Heating in Electric Double Layer Capacitors. <i>Physical Review Letters</i> , 2017, 118, 096001.	2.9	48
52	Defying gravity with entropy and electrostatics: sedimentation of charged colloids. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S3569-S3580.	0.7	46
53	Interfacial tension and wetting in colloidal-polymer mixtures. <i>Journal of Chemical Physics</i> , 2004, 120, 1973-1980.	1.2	46
54	Stringlike Clusters and Cooperative Interlayer Permeation in Smectic Liquid Crystals Formed by Colloidal Rods. <i>Physical Review Letters</i> , 2009, 103, 248304.	2.9	46

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55	Isotropic-nematic interfaces of hard-rod fluids. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 4789-4800.	0.7	44
56	Charged Colloidal Particles and Small Mobile Ions near the Oil-Water Interface: Destruction of Colloidal Double Layer and Ionic Charge Separation. <i>Physical Review Letters</i> , 2007, 99, 178301.	2.9	44
57	Glassy Dynamics, Spinodal Fluctuations, and the Kinetic Limit of Nucleation in Suspensions of Colloidal Hard Rods. <i>Physical Review Letters</i> , 2010, 105, 088302.	2.9	44
58	Demixing in a hard rod-plate mixture. <i>Journal De Physique II</i> , 1994, 4, 1763-1769.	0.9	42
59	Self-Assembly of Octapod-Shaped Colloidal Nanocrystals into a Hexagonal Ballerina Network Embedded in a Thin Polymer Film. <i>Nano Letters</i> , 2014, 14, 1056-1063.	4.5	42
60	Effect of external electric fields on the phase behavior of colloidal silica rods. <i>Soft Matter</i> , 2014, 10, 6249-6255.	1.2	42
61	Density functional theory for chiral nematic liquid crystals. <i>Physical Review E</i> , 2014, 90, 020503.	0.8	42
62	Primitive model electrolytes in the near and far field: Decay lengths from DFT and simulations. <i>Journal of Chemical Physics</i> , 2021, 154, 124504.	1.2	42
63	Adsorption trajectories and free-energy separatrixes for colloidal particles in contact with a liquid-liquid interface. <i>Journal of Chemical Physics</i> , 2010, 132, 164902.	1.2	41
64	Biaxial, Twist-bend, and Splay-bend Nematic Phases of Banana-shaped Particles Revealed by Lifting the $\alpha$ -Smectic Blanket. <i>Physical Review Letters</i> , 2019, 123, 068001.	2.9	41
65	The isotropic and nematic liquid crystal phase of colloidal rods. <i>European Journal of Physics</i> , 2005, 26, S57-S67.	0.3	40
66	Absence of high-density consolute point in nematic hard rod mixtures. <i>Journal of Chemical Physics</i> , 1996, 105, 11237-11245.	1.2	39
67	Fundamental measure theory for the electric double layer: implications for blue-energy harvesting and water desalination. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 194129.	0.7	39
68	Self-Diffusion of Particles in Complex Fluids: Temporary Cages and Permanent Barriers. <i>Physical Review Letters</i> , 2008, 101, 215901.	2.9	38
69	Rational design and dynamics of self-propelled colloidal bead chains: from rotators to flagella. <i>Scientific Reports</i> , 2017, 7, 16758.	1.6	37
70	Effective charges and virial pressure of concentrated macroion solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9242-9246.	3.3	36
71	Coulometry and Calorimetry of Electric Double Layer Formation in Porous Electrodes. <i>Physical Review Letters</i> , 2017, 119, 166002.	2.9	35
72	Macroscopic electric field and osmotic pressure in ultracentrifugal sedimentation-diffusion equilibria of charged colloids. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 2293-2314.	0.7	34

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73	Volume terms for charged colloids: A grand-canonical treatment. <i>Physical Review E</i> , 2006, 73, 021403.	0.8	34
74	Interparticle torques suppress motility-induced phase separation for rodlike particles. <i>Journal of Chemical Physics</i> , 2019, 150, 164501.	1.2	34
75	Critical Casimir Forces and Colloidal Phase Transitions in a Near-Critical Solvent: A Simple Model Reveals a Rich Phase Diagram. <i>Physical Review Letters</i> , 2015, 114, 038301.	2.9	33
76	Vapour-liquid coexistence for purely repulsive point-Yukawa fluids. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 1219-1228.	0.7	32
77	The equilibrium shape of fluid-fluid interfaces: Derivation and a new numerical method for Young's and Young-Laplace equations. <i>Journal of Chemical Physics</i> , 2014, 141, 244702.	1.2	32
78	Crystallization and reentrant melting of charged colloids in nonpolar solvents. <i>Physical Review E</i> , 2015, 91, 030301.	0.8	32
79	Dynamical and structural insights into the smectic phase of rod-like particles. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494213.	0.7	31
80	Polarizability and alignment of dielectric nanoparticles in an external electric field: Bowls, dumbbells, and cuboids. <i>Journal of Chemical Physics</i> , 2011, 135, 134105.	1.2	31
81	Sedimentation profiles of charged colloids: Entropic lift and charge separation. <i>Europhysics Letters</i> , 2004, 65, 719-725.	0.7	30
82	Nonlinear Screening and Gas-Liquid Separation in Suspensions of Charged Colloids. <i>Physical Review Letters</i> , 2006, 97, 258302.	2.9	30
83	Ion association in low-polarity solvents: comparisons between theory, simulation, and experiment. <i>Soft Matter</i> , 2010, 6, 2793.	1.2	30
84	Phase equilibria in a model of low-salt suspensions of charged colloids. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 10047-10060.	0.7	29
85	Collective diffusion of colloidal hard rods in smectic liquid crystals: Effect of particle anisotropy. <i>Journal of Chemical Physics</i> , 2010, 132, 224907.	1.2	29
86	Flow-Induced Surface Charge Heterogeneity in Electrokinetics due to Stern-Layer Conductance Coupled to Reaction Kinetics. <i>Physical Review Letters</i> , 2018, 120, 264502.	2.9	29
87	Isotropic-nematic interface in suspensions of hard rods: Mean-field properties and capillary waves. <i>Physical Review E</i> , 2006, 73, 061703.	0.8	28
88	Isotropic-to-nematic nucleation in suspensions of colloidal rods. <i>Soft Matter</i> , 2008, 4, 757.	1.2	28
89	Entropic Wetting and the Free Isotropic-Nematic Interface of Hard Colloidal Platelets. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7825-7835.	1.2	27
90	The polydisperse cell model: Nonlinear screening and charge renormalization in colloidal mixtures. <i>Journal of Chemical Physics</i> , 2008, 128, 154906.	1.2	27

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91	Relaxation dynamics in the columnar liquid crystal phase of hard platelets. <i>Soft Matter</i> , 2011, 7, 3533.	1.2	27
92	Phase diagrams of colloidal spheres with a constant zeta-potential. <i>Journal of Chemical Physics</i> , 2011, 134, 074505.	1.2	27
93	Effect of three-body interactions on the phase behavior of charge-stabilized colloidal suspensions. <i>Physical Review E</i> , 2004, 69, 061407.	0.8	26
94	Triangular tessellation scheme for the adsorption free energy at the liquid-liquid interface: Towards nonconvex patterned colloids. <i>Physical Review E</i> , 2009, 80, 051405.	0.8	26
95	Inflation of the screening length induced by Bjerrum pairs. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 424102.	0.7	26
96	Phase diagrams of binary mixtures of oppositely charged colloids. <i>Journal of Chemical Physics</i> , 2010, 133, 124501.	1.2	26
97	Phase Diagram and Effective Shape of Semiflexible Colloidal Rods and Biopolymers. <i>Physical Review Letters</i> , 2011, 106, 208302.	2.9	26
98	Self-consistent electric field-induced dipole interaction of colloidal spheres, cubes, rods, and dumbbells. <i>Journal of Chemical Physics</i> , 2014, 140, .	1.2	26
99	Phase behavior of a family of truncated hard cubes. <i>Journal of Chemical Physics</i> , 2015, 142, 054904.	1.2	26
100	Self-assembly of cubic colloidal particles at fluid-fluid interfaces by hexapolar capillary interactions. <i>Soft Matter</i> , 2018, 14, 42-60.	1.2	26
101	Charge regulation and ionic screening of patchy surfaces. <i>Journal of Chemical Physics</i> , 2011, 134, 054706.	1.2	25
102	Site-specific growth of polymers on silica rods. <i>Soft Matter</i> , 2014, 10, 9644-9650.	1.2	25
103	Are Antagonistic Salts Surfactants?. <i>Langmuir</i> , 2015, 31, 906-911.	1.6	25
104	Van't Hoff's law for active suspensions: the role of the solvent chemical potential. <i>Soft Matter</i> , 2017, 13, 8957-8963.	1.2	25
105	Hard Competition: Stabilizing the Elusive Biaxial Nematic Phase in Suspensions of Colloidal Particles with Extreme Lengths. <i>Physical Review Letters</i> , 2018, 120, 177801.	2.9	25
106	A Theoretical and Experimental Study to Optimize Cell Differentiation in a Novel Intestinal Chip. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 763.	2.0	25
107	Entropic wetting in colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3507-S3514.	0.7	24
108	Attraction or repulsion between charged colloids? A connection with Debye-Hückel theory. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A263-A267.	0.7	22

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109	Sedimentation of binary mixtures of like- and oppositely charged colloids: the primitive model or effective pair potentials?. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 825-836.	0.7	22
110	Tuning biaxiality of nematic phases of board-like colloids by an external magnetic field. <i>Soft Matter</i> , 2014, 10, 446-456.	1.2	22
111	Heterogeneous dynamics in columnar liquid crystals of parallel hard rods. <i>Journal of Chemical Physics</i> , 2010, 133, 154514.	1.2	20
112	The sediment of mixtures of charged colloids: Segregation and inhomogeneous electric fields. <i>Europhysics Letters</i> , 2005, 71, 480-486.	0.7	19
113	Electric-Field-Induced Lock-and-Key Interactions between Colloidal Spheres and Bowls. <i>Chemistry of Materials</i> , 2016, 28, 1040-1048.	3.2	19
114	Capacitance and Structure of Electric Double Layers: Comparing Brownian Dynamics and Classical Density Functional Theory. <i>Journal of Solution Chemistry</i> , 2022, 51, 296-319.	0.6	19
115	Liquid flow reversibly creates a macroscopic surface charge gradient. <i>Nature Communications</i> , 2021, 12, 4102.	5.8	19
116	Free planar isotropic-nematic interfaces in binary hard-rod fluids. <i>Physical Review E</i> , 2003, 68, 061703.	0.8	18
117	Isotropic-nematic transition in hard-rod fluids: Relation between continuous and restricted-orientation models. <i>Physical Review E</i> , 2004, 69, 041703.	0.8	18
118	Electrostatic interactions between Janus particles. <i>Journal of Chemical Physics</i> , 2012, 137, 104910.	1.2	18
119	A Landau-de Gennes theory for hard colloidal rods: Defects and tactoids. <i>Journal of Chemical Physics</i> , 2016, 144, 194901.	1.2	18
120	High-density scaling solution to the Onsager model of lyotropic nematics. <i>Europhysics Letters</i> , 1996, 34, 201-206.	0.7	17
121	Sedimentation of charged colloids: The primitive model and the effective one-component approach. <i>Physical Review E</i> , 2007, 75, 041405.	0.8	17
122	Free minimization of the fundamental measure theory functional: Freezing of parallel hard squares and cubes. <i>Journal of Chemical Physics</i> , 2012, 137, 124506.	1.2	17
123	Phase diagrams of charged colloidal rods: Can a uniaxial charge distribution break chiral symmetry?. <i>Journal of Chemical Physics</i> , 2016, 144, 094901.	1.2	17
124	Enhancing electrocatalytic $N_2$ reduction via tailoring the electric double layers. <i>AIChE Journal</i> , 2022, 68, .	1.8	17
125	Effective shape and phase behavior of short charged rods. <i>Physical Review E</i> , 2009, 79, 041401.	0.8	16
126	Connectedness percolation of hard deformed rods. <i>Journal of Chemical Physics</i> , 2017, 147, 224904.	1.2	16



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127	The differential capacitance as a probe for the electric double layer structure and the electrolyte bulk composition. <i>Journal of Chemical Physics</i> , 2021, 155, 104702.	1.2	16
128	Microscopic Model for Cyclic Voltammetry of Porous Electrodes. <i>Physical Review Letters</i> , 2022, 128, .	2.9	16
129	Entropy-Driven Triple Point Wetting in Hard-Rod Mixtures. <i>Physical Review Letters</i> , 2002, 88, 205501.	2.9	15
130	Breakdown of the Yukawa model in de-ionized colloidal suspensions. <i>Physical Review E</i> , 2008, 77, 031402.	0.8	15
131	Depletion-induced biaxial nematic states of boardlike particles. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284128.	0.7	15
132	Orientational Order of Carbon Nanotube Guests in a Nematic Host Suspension of Colloidal Viral Rods. <i>Physical Review Letters</i> , 2012, 108, 247801.	2.9	15
133	Dense ionic fluids confined in planar capacitors: in- and out-of-plane structure from classical density functional theory. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 244007.	0.7	15
134	Simulating the charging of cylindrical electrolyte-filled pores with the modified Poissonâ€Nernstâ€Planck equations. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	15
135	Absence of anomalous underscreening in highly concentrated aqueous electrolytes confined between smooth silica surfaces. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 819-827.	5.0	15
136	Hard colloidal rods near a soft wall: Wetting, drying, and symmetry breaking. <i>Europhysics Letters</i> , 2006, 74, 1039-1045.	0.7	14
137	Poisson-Boltzmann cell model for heterogeneously charged colloids. <i>Physical Review E</i> , 2009, 80, 041402.	0.8	14
138	Can nonadditive dispersion forces explain chain formation of nanoparticles?. <i>Journal of Chemical Physics</i> , 2013, 138, 104308.	1.2	14
139	Efficient shapes for microswimming: From three-body swimmers to helical flagella. <i>Journal of Chemical Physics</i> , 2017, 146, 084904.	1.2	14
140	Equilibrium configurations and capillary interactions of Janus dumbbells and spherocylinders at fluidâ€fluid interfaces. <i>Soft Matter</i> , 2019, 15, 2638-2647.	1.2	14
141	Monovalent â€divalent cation competition at the muscovite mica surface: Experiment and theory. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 291-303.	5.0	14
142	Universal motion of mirror-symmetric microparticles in confined Stokes flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21865-21872.	3.3	14
143	Coupled water, charge and salt transport in heterogeneous nano-fluidic systems. <i>Soft Matter</i> , 2020, 16, 1527-1537.	1.2	14
144	Machine-learning free-energy functionals using density profiles from simulations. <i>APL Materials</i> , 2021, 9, .	2.2	14

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145	Effect of triplet attractions on the phase diagram of suspensions of charged colloids. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S3549-S3556.	0.7	13
146	Layering in sedimentation of suspensions of charged colloids: Simulation and theory. <i>Physical Review E</i> , 2006, 73, 061402.	0.8	13
147	Screening of heterogeneous surfaces: charge renormalization of Janus particles. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 104104.	0.7	13
148	Computer simulations of the restricted primitive model at very low temperature and density. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 104122.	0.7	13
149	Tuning Colloid-Interface Interactions by Salt Partitioning. <i>Physical Review Letters</i> , 2016, 117, 098002.	2.9	13
150	Sessile Nanodroplets on Elliptical Patches of Enhanced Lyophilicity. <i>Langmuir</i> , 2017, 33, 2744-2749.	1.6	13
151	Relaxation dynamics in fluids of platelike colloidal particles. <i>Physical Review E</i> , 2007, 76, 021405.	0.8	12
152	Stability of additive-free water-in-oil emulsions. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 494238.	0.7	12
153	Communication: Bulkiness versus anisotropy: The optimal shape of polarizable Brownian nanoparticles for alignment in electric fields. <i>Journal of Chemical Physics</i> , 2012, 136, 131102.	1.2	12
154	Density-induced reentrant melting of colloidal Wigner crystals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5211-5218.	1.3	12
155	Classifying Crystals of Rounded Tetrahedra and Determining Their Order Parameters Using Dimensionality Reduction. <i>ACS Nano</i> , 2020, 14, 15144-15153.	7.3	12
156	Dynamic density functional theory for the charging of electric double layer capacitors. <i>Journal of Chemical Physics</i> , 2022, 156, 084101.	1.2	12
157	Electrostatics in liquids: From electrolytes and suspensions towards emulsions and patchy surfaces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 4317-4331.	1.2	11
158	The effects of shape and flexibility on bio-engineered fd-virus suspensions. <i>Journal of Chemical Physics</i> , 2011, 135, 144106.	1.2	11
159	Spontaneous charging and crystallization of water droplets in oil. <i>Journal of Chemical Physics</i> , 2008, 129, 194701.	1.2	10
160	Charge reversal of moisturous porous silica colloids by take-up of protons. <i>Journal of Colloid and Interface Science</i> , 2012, 385, 66-72.	5.0	10
161	Orientation of a dielectric rod near a planar electrode. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22575-22582.	1.3	10
162	Critical Casimir interactions and colloidal self-assembly in near-critical solvents. <i>Journal of Chemical Physics</i> , 2016, 145, 084902.	1.2	10

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163	Interplay Between Adsorption and Hydrodynamics in Nanochannels: Towards Tunable Membranes. <i>Physical Review Letters</i> , 2017, 118, 014502.	2.9	10
164	Regiospecific Nucleation and Growth of Silane Coupling Agent Droplets onto Colloidal Particles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19989-19998.	1.5	10
165	Microphase Separation in Oil-Water Mixtures Containing Hydrophilic and Hydrophobic Ions. <i>Physical Review Letters</i> , 2017, 119, 218001.	2.9	10
166	Finite thickness and charge relaxation in double-layer interactions. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 176-183.	5.0	9
167	Theory of the isotropic-nematic transition in dispersions of compressible rods. <i>Physical Review E</i> , 2006, 74, 021710.	0.8	9
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