

Christian Holm

List of Publications by Year in descending order

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293
papers

12,729
citations

20759

60
h-index

38300

95
g-index

316
all docs

316
docs citations

316
times ranked

7378
citing authors

#	ARTICLE	IF	CITATIONS
1	ESPreSo – an extensible simulation package for research on soft matter systems. <i>Computer Physics Communications</i> , 2006, 174, 704-727.	3.0	612
2	How to mesh up Ewald sums. I. A theoretical and numerical comparison of various particle mesh routines. <i>Journal of Chemical Physics</i> , 1998, 109, 7678-7693.	1.2	576
3	How to mesh up Ewald sums. II. An accurate error estimate for the particle – particle – particle-mesh algorithm. <i>Journal of Chemical Physics</i> , 1998, 109, 7694-7701.	1.2	284
4	Fraction of Condensed Counterions around a Charged Rod: A Comparison of Poisson – Boltzmann Theory and Computer Simulations. <i>Macromolecules</i> , 2000, 33, 199-206.	2.2	271
5	Force Fields for Studying the Structure and Dynamics of Ionic Liquids: A Critical Review of Recent Developments. <i>ChemPhysChem</i> , 2012, 13, 1625-1637.	1.0	239
6	Strongly Charged, Flexible Polyelectrolytes in Poor Solvents: A Molecular Dynamics Simulations. <i>Langmuir</i> , 1999, 15, 4033-4044.	1.6	219
7	The structure of ferrofluids: A status report. <i>Current Opinion in Colloid and Interface Science</i> , 2005, 10, 133-140.	3.4	214
8	Molecular dynamics study on the equilibrium magnetization properties and structure of ferrofluids. <i>Physical Review E</i> , 2002, 66, 021405.	0.8	206
9	Critical exponents of the classical three-dimensional Heisenberg model: A single-cluster Monte Carlo study. <i>Physical Review B</i> , 1993, 48, 936-950.	1.1	192
10	Electrostatics in periodic slab geometries. I. <i>Journal of Chemical Physics</i> , 2002, 117, 2496-2502.	1.2	144
11	Polyelectrolyte Theory. <i>Advances in Polymer Science</i> , 0, , 67-111.	0.4	140
12	Single-Chain Properties of Polyelectrolytes in Poor Solvent. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8041-8055.	1.2	135
13	Osmotic coefficients of atomistic NaCl (aq) force fields. <i>Journal of Chemical Physics</i> , 2006, 124, 164509.	1.2	132
14	Magnetic properties of polydisperse ferrofluids: A critical comparison between experiment, theory, and computer simulation. <i>Physical Review E</i> , 2007, 75, 061405.	0.8	130
15	Strong Attraction between Charged Spheres due to Metastable Ionized States. <i>Physical Review Letters</i> , 2000, 85, 872-875.	2.9	127
16	Structure and magnetic properties of polydisperse ferrofluids: A molecular dynamics study. <i>Physical Review E</i> , 2003, 68, 041401.	0.8	127
17	ESPreSo 4.0 – an extensible software package for simulating soft matter systems. <i>European Physical Journal: Special Topics</i> , 2019, 227, 1789-1816.	1.2	127
18	Modeling the separation of macromolecules: A review of current computer simulation methods. <i>Electrophoresis</i> , 2009, 30, 792-818.	1.3	126

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19	ESPREsSo 3.1: Molecular Dynamics Software for Coarse-Grained Models. Lecture Notes in Computational Science and Engineering, 2013, , 1-23.	0.1	118
20	Overcharging of DNA in the Presence of Salt: A Theory and Simulation. Journal of Physical Chemistry B, 2001, 105, 10983-10991.	1.2	117
21	Electrophoresis of Colloidal Dispersions in the Low-Salt Regime. Physical Review Letters, 2007, 98, 176105.	2.9	114
22	Ionic Charge Reduction and Atomic Partial Charges from First-Principles Calculations of 1,3-Dimethylimidazolium Chloride. Journal of Physical Chemistry B, 2010, 114, 6150-6155.	1.2	113
23	Effect of Anions on Static Orientational Correlations, Hydrogen Bonds, and Dynamics in Ionic Liquids: A Simulational Study. Journal of Physical Chemistry B, 2008, 112, 1743-1751.	1.2	111
24	Modeling Multibody Effects in Ionic Solutions with a Concentration Dependent Dielectric Permittivity. Physical Review Letters, 2006, 96, 147801.	2.9	110
25	Optimizing working parameters of the smooth particle mesh Ewald algorithm in terms of accuracy and efficiency. Journal of Chemical Physics, 2010, 133, 034117.	1.2	108
26	Estimate of the cutoff errors in the Ewald summation for dipolar systems. Journal of Chemical Physics, 2001, 115, 6351-6359.	1.2	105
27	Machine-learned interatomic potentials by active learning: amorphous and liquid hafnium dioxide. Npj Computational Materials, 2020, 6, .	3.5	100
28	Ionic liquids studied across different scales: A computational perspective. Faraday Discussions, 2012, 154, 111-132.	1.6	99
29	Ionic screening and dissociation are crucial for understanding chemical self-propulsion in polar solvents. Soft Matter, 2017, 13, 1200-1222.	1.2	95
30	Locality and Fluctuations: Trends in Imidazolium-Based Ionic Liquids and Beyond. Journal of Chemical Theory and Computation, 2011, 7, 3040-3044.	2.3	93
31	Structure of polyelectrolytes in poor solvent. Europhysics Letters, 2002, 60, 566-572.	0.7	92
32	Swelling of polyelectrolyte networks. Journal of Chemical Physics, 2005, 122, 154903.	1.2	92
33	Overcharging: The crucial role of excluded volume. Europhysics Letters, 2002, 60, 383-389.	0.7	89
34	A comparative study of two classical force fields on statics and dynamics of [EMIM][BF4] investigated via molecular dynamics simulations. Journal of Chemical Physics, 2008, 129, 224501.	1.2	89
35	Deformation mechanisms in 2D magnetic gels studied by computer simulations. Soft Matter, 2012, 8, 9923.	1.2	87
36	P 3 M algorithm for dipolar interactions. Journal of Chemical Physics, 2008, 129, 234104.	1.2	84

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37	Importance of Hydrodynamic Shielding for the Dynamic Behavior of Short Polyelectrolyte Chains. <i>Physical Review Letters</i> , 2008, 100, 096104.	2.9	82
38	Charge Me Slowly, I Am in a Hurry: Optimizing Chargeâ€“Discharge Cycles in Nanoporous Supercapacitors. <i>ACS Nano</i> , 2018, 12, 9733-9741.	7.3	80
39	Simulations of ionization equilibria in weak polyelectrolyte solutions and gels. <i>Soft Matter</i> , 2019, 15, 1155-1185.	1.2	78
40	A stable local density functional approach to ion-ion correlations. <i>Europhysics Letters</i> , 2000, 52, 80-86.	0.7	76
41	Attraction and Ionic Correlations between Charged Stiff Polyelectrolytes. <i>Macromolecules</i> , 2003, 36, 249-259.	2.2	76
42	An iterative, fast, linear-scaling method for computing induced charges on arbitrary dielectric boundaries. <i>Journal of Chemical Physics</i> , 2010, 132, 154112.	1.2	76
43	Polyelectrolyte Multilayering on a Charged Sphere. <i>Langmuir</i> , 2003, 19, 4473-4482.	1.6	75
44	Electrostatics in periodic slab geometries. II. <i>Journal of Chemical Physics</i> , 2002, 117, 2503-2512.	1.2	73
45	MMM2D: A fast and accurate summation method for electrostatic interactions in 2D slab geometries. <i>Computer Physics Communications</i> , 2002, 148, 327-348.	3.0	73
46	Incorporation of excluded-volume correlations into Poisson-Boltzmann theory. <i>Physical Review E</i> , 2005, 71, 061106.	0.8	73
47	Polymer architecture of magnetic gels: a review. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 063002.	0.7	73
48	Electrophoretic mobility of a charged colloidal particle: a computer simulation study. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S4063-S4073.	0.7	72
49	Comparison of scalable fast methods for long-range interactions. <i>Physical Review E</i> , 2013, 88, 063308.	0.8	72
50	Modeling of Polyelectrolyte Gels in Equilibrium with Salt Solutions. <i>Macromolecules</i> , 2015, 48, 7698-7708.	2.2	72
51	Capacitance of Nanoporous Carbon-Based Supercapacitors Is a Trade-Off between the Concentration and the Separability of the Ions. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4015-4021.	2.1	72
52	Comparison of a hydrogel model to the Poissonâ€“Boltzmann cell model. <i>Journal of Chemical Physics</i> , 2009, 131, 094903.	1.2	69
53	Coarse-grained simulations of polyelectrolyte complexes: MARTINI models for poly(styrene sulfonate) and poly(diallyldimethylammonium). <i>Journal of Chemical Physics</i> , 2015, 143, 243151.	1.2	69
54	A refined polarizable water model for the coarse-grained MARTINI force field with long-range electrostatic interactions. <i>Journal of Chemical Physics</i> , 2017, 146, 054501.	1.2	69

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55	Buckling of paramagnetic chains in soft gels. <i>Soft Matter</i> , 2016, 12, 228-237.	1.2	68
56	Strong electrostatic interactions in spherical colloidal systems. <i>Physical Review E</i> , 2001, 64, 021405.	0.8	66
57	Scaling in polyelectrolyte networks. <i>Europhysics Letters</i> , 2004, 67, 786-792.	0.7	64
58	Computer simulations of the structure of colloidal ferrofluids. <i>Physical Review E</i> , 2005, 71, 061203.	0.8	64
59	Ground state structures in ferrofluid monolayers. <i>Physical Review E</i> , 2009, 80, 031404.	0.8	64
60	Electrophoretic mobility and charge inversion of a colloidal particle studied by single-colloid electrophoresis and molecular dynamics simulations. <i>Physical Review E</i> , 2013, 87, 022302.	0.8	64
61	End effects of strongly charged polyelectrolytes: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2001, 114, 9674-9682.	1.2	63
62	Concentration dependent effects of urea binding to poly(N-isopropylacrylamide) brushes: a combined experimental and numerical study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5324-5335.	1.3	61
63	Polyelectrolytes in electric fields: measuring the dynamical effective charge and effective friction. <i>Soft Matter</i> , 2009, 5, 2079.	1.2	58
64	How to speed up ion transport in nanopores. <i>Nature Communications</i> , 2020, 11, 6085.	5.8	57
65	Understanding polyelectrolyte multilayers: an open challenge for simulations. <i>Soft Matter</i> , 2009, 5, 4412.	1.2	54
66	Electrode Models for Ionic Liquid-Based Capacitors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22445-22451.	1.5	54
67	Attraction and unbinding of like-charged rods. <i>Europhysics Letters</i> , 2004, 67, 130-136.	0.7	53
68	Applying the chain formation model to magnetic properties of aggregated ferrofluids. <i>Physical Review E</i> , 2004, 69, 031206.	0.8	52
69	Origin of Current Blockades in Nanopore Translocation Experiments. <i>Physical Review Letters</i> , 2014, 112, 018101.	2.9	51
70	Finite-size scaling study of the three-dimensional classical Heisenberg model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 173, 8-12.	0.9	50
71	Microstructure analysis of monodisperse ferrofluid monolayers: theory and simulation. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1883.	1.3	50
72	Towards multiscale modeling of ionic liquids: From electronic structure to bulk properties. <i>Journal of Molecular Liquids</i> , 2010, 152, 2-8.	2.3	50

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73	Complex Tracer Diffusion Dynamics in Polymer Solutions. <i>Physical Review Letters</i> , 2013, 111, 088301.	2.9	50
74	The osmotic coefficient of rod-like polyelectrolytes: Computer simulation, analytical theory, and experiment. <i>European Physical Journal E</i> , 2001, 5, 97-103.	0.7	49
75	The Swelling Behavior of Charged Hydrogels. <i>Macromolecular Symposia</i> , 2006, 237, 90-107.	0.4	48
76	Mesoscopic simulations of the counterion-induced electro-osmotic flow: A comparative study. <i>Journal of Chemical Physics</i> , 2009, 130, 244702.	1.2	48
77	Ferrogels cross-linked by magnetic nanoparticles—Deformation mechanisms in two and three dimensions studied by means of computer simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 262-266.	1.0	48
78	Peptides in the presence of aqueous ionic liquids: tunable co-solutes as denaturants or protectants?. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26049-26053.	1.3	48
79	Effect of colloidal charge discretization in the primitive model. <i>European Physical Journal E</i> , 2001, 4, 363-370.	0.7	47
80	Stiff-Chain Polyelectrolytes. <i>Advances in Polymer Science</i> , 0, , 1-27.	0.4	47
81	Ferrofluids with shifted dipoles: ground state structures. <i>Soft Matter</i> , 2011, 7, 5217.	1.2	46
82	Microfluidic pumping by micromolar salt concentrations. <i>Soft Matter</i> , 2017, 13, 1505-1518.	1.2	46
83	Poly(styrenesulfonate)~Poly(diallyldimethylammonium) Mixtures: Toward the Understanding of Polyelectrolyte Complexes and Multilayers via Atomistic Simulations. <i>Macromolecules</i> , 2010, 43, 7828-7838.	2.2	45
84	Conformational properties of poor solvent polyelectrolytes. <i>Computer Physics Communications</i> , 2002, 147, 321-324.	3.0	44
85	Hydrogels in Poor Solvents: A Molecular Dynamics Study. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 721-734.	0.6	44
86	Grand-Reaction Method for Simulations of Ionization Equilibria Coupled to Ion Partitioning. <i>Macromolecules</i> , 2020, 53, 3007-3020.	2.2	44
87	High-temperature series analyses of the classical Heisenberg and XY models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 201, 581-592.	1.2	43
88	Electrostatic layer correction with image charges: A linear scaling method to treat slab 2D+h systems with dielectric interfaces. <i>Journal of Chemical Physics</i> , 2008, 129, 204102.	1.2	43
89	Theory and simulations of rigid polyelectrolytes. <i>Molecular Physics</i> , 2002, 100, 2941-2956.	0.8	41
90	Simulation of charge reversal in salty environments: Giant overcharging?. <i>European Physical Journal E</i> , 2008, 26, 191-195.	0.7	41

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91	Efficient Algorithms for Electrostatic Interactions Including Dielectric Contrasts. <i>Entropy</i> , 2013, 15, 4569-4588.	1.1	41
92	Electrolyte solvents for high voltage lithium ion batteries: ion correlation and specific anion effects in adiponitrile. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25701-25715.	1.3	41
93	A novel method for calculating electrostatic interactions in 2D periodic slab geometries. <i>Chemical Physics Letters</i> , 2002, 354, 324-330.	1.2	40
94	Boundary condition effects in the simulation study of equilibrium properties of magnetic dipolar fluids. <i>Journal of Chemical Physics</i> , 2003, 119, 379-387.	1.2	40
95	Equilibrium properties of a bidisperse ferrofluid with chain aggregates: theory and computer simulations. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2737-S2756.	0.7	40
96	The solvation and ion condensation properties for sulfonated polyelectrolytes in different solvents—a computational study. <i>New Journal of Physics</i> , 2014, 16, 025001.	1.2	40
97	Ferrogels cross-linked by magnetic particles: Field-driven deformation and elasticity studied using computer simulations. <i>Journal of Chemical Physics</i> , 2015, 143, 154901.	1.2	40
98	The raspberry model for hydrodynamic interactions revisited. I. Periodic arrays of spheres and dumbbells. <i>Journal of Chemical Physics</i> , 2015, 143, 084107.	1.2	40
99	Solvent effects of 1-ethyl-3-methylimidazolium acetate: solvation and dynamic behavior of polar and apolar solutes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8480-8490.	1.3	40
100	Lattice-Boltzmann hydrodynamics of anisotropic active matter. <i>Journal of Chemical Physics</i> , 2016, 144, 134106.	1.2	40
101	Simulation of weak polyelectrolytes: a comparison between the constant pH and the reaction ensemble method. <i>European Physical Journal: Special Topics</i> , 2017, 226, 725-736.	1.2	40
102	MMM1D: A method for calculating electrostatic interactions in one-dimensional periodic geometries. <i>Journal of Chemical Physics</i> , 2005, 123, 144103.	1.2	39
103	Tail-induced attraction between nucleosome core particles. <i>Physical Review E</i> , 2006, 74, 031919.	0.8	39
104	DFT Accurate Interatomic Potential for Molten NaCl from Machine Learning. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25760-25768.	1.5	39
105	Polyelectrolyte adsorption and multilayering on charged colloidal particles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3557-3570.	2.4	38
106	Electrostatic properties of liquid 1,3-dimethylimidazolium chloride: role of local polarization and effect of the bulk. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1817-1821.	1.3	38
107	How close to two dimensions does a Lennard-Jones system need to be to produce a hexatic phase?. <i>Journal of Chemical Physics</i> , 2011, 135, 054514.	1.2	38
108	Like-charge colloidal polyelectrolyte complexation. <i>Journal of Chemical Physics</i> , 2002, 117, 2947-2960.	1.2	37

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109	Monte Carlo study of topological defects in the 3D Heisenberg model. <i>Journal of Physics A</i> , 1994, 27, 2553-2563.	1.6	36
110	Ground state of two unlike charged colloids: An analogy with ionic bonding. <i>Europhysics Letters</i> , 2000, 51, 461-467.	0.7	36
111	ICMMM2D: An accurate method to include planar dielectric interfaces via image charge summation. <i>Journal of Chemical Physics</i> , 2007, 127, 154723.	1.2	36
112	Finite-size polyelectrolyte bundles at thermodynamic equilibrium. <i>Europhysics Letters</i> , 2007, 77, 16001.	0.7	35
113	A self-consistent mean-field model for polyelectrolyte gels. <i>Soft Matter</i> , 2017, 13, 3264-3274.	1.2	34
114	Study of 1,3-dimethylimidazolium chloride with electronic structure methods and force field approaches. <i>Journal of Chemical Physics</i> , 2008, 129, 174503.	1.2	33
115	Shear effects on crystal nucleation in colloidal suspensions. <i>Physical Review E</i> , 2008, 78, 031403.	0.8	33
116	Atomistic Study of Surface Effects on Polyelectrolyte Adsorption: Case Study of a Poly(styrenesulfonate) Monolayer. <i>Macromolecules</i> , 2011, 44, 1707-1718.	2.2	33
117	Importance of Varying Permittivity on the Conductivity of Polyelectrolyte Solutions. <i>Physical Review Letters</i> , 2015, 115, 118301.	2.9	33
118	On the efficiency of a hydrogel-based desalination cycle. <i>Desalination</i> , 2017, 414, 28-34.	4.0	33
119	The critical behaviour of Ising spins on 2D Regge lattices. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 335, 143-150.	1.5	32
120	Cluster formation in systems of shifted-dipole particles. <i>Soft Matter</i> , 2013, 9, 3535.	1.2	32
121	Generic force fields for ionic liquids. <i>Journal of Molecular Liquids</i> , 2014, 192, 32-37.	2.3	32
122	Local Water Dynamics around Antifreeze Protein Residues in the Presence of Osmolytes: The Importance of Hydroxyl and Disaccharide Groups. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11613-11621.	1.2	32
123	A polarizable MARTINI model for monovalent ions in aqueous solution. <i>Journal of Chemical Physics</i> , 2018, 149, 163319.	1.2	32
124	Controlled DNA compaction within chromatin: The tail-bridging effect. <i>Europhysics Letters</i> , 2006, 73, 135-141.	0.7	31
125	Simulational study of anomalous tracer diffusion in hydrogels. <i>Colloid and Polymer Science</i> , 2011, 289, 523-534.	1.0	31
126	Dynamics in Stimuli-Responsive Poly(<i>N</i> -isopropylacrylamide) Hydrogel Layers As Revealed by Fluorescence Correlation Spectroscopy. <i>Macromolecules</i> , 2014, 47, 5303-5312.	2.2	31

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127	Aggregate formation in ferrofluid monolayers: simulations and theory. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 204125.	0.7	30
128	Behavior of bulky ferrofluids in the diluted low-coupling regime: Theory and simulation. <i>Physical Review E</i> , 2010, 81, 011501.	0.8	30
129	Influence of Charged Polymer Coatings on Electro-Osmotic Flow: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2011, 44, 9455-9463.	2.2	30
130	Preferential solvation and ion association properties in aqueous dimethyl sulfoxide solutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31312-31322.	1.3	30
131	Bulk ionic screening lengths from extremely large-scale molecular dynamics simulations. <i>Chemical Communications</i> , 2020, 56, 15635-15638.	2.2	30
132	Cell Model and Poisson-Boltzmann Theory: A Brief Introduction. , 2001, , 27-52.		30
133	Efficient Methods to Compute Long-Range Interactions for Soft Matter Systems. , 0, , 59-109.		29
134	Optimal Cell Approach to Osmotic Properties of Finite Stiff-Chain Polyelectrolytes. <i>Physical Review Letters</i> , 2006, 96, 088302.	2.9	29
135	Colloidal electrophoresis: scaling analysis, Greenâ€™Kubo relation, and numerical results. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 404214.	0.7	29
136	How to analyse the structure factor in ferrofluids with strong magnetic interactions: a combined analytic and simulation approach. <i>Molecular Physics</i> , 2009, 107, 571-590.	0.8	29
137	Mobility Reversal of Polyelectrolyte-Grafted Colloids in Monovalent Salt Solutions. <i>Physical Review Letters</i> , 2014, 113, 238301.	2.9	29
138	Simulation of electric double layers around charged colloids in aqueous solution of variable permittivity. <i>Journal of Chemical Physics</i> , 2014, 141, 064902.	1.2	29
139	Diffusiophoretic Self-Propulsion for Partially Catalytic Spherical Colloids. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 272-288.	2.2	29
140	The effect of finite pore length on ion structure and charging. <i>Journal of Chemical Physics</i> , 2017, 147, 104708.	1.2	29
141	Mesoscale modelling of polyelectrolyteelectrophoresis. <i>Faraday Discussions</i> , 2010, 144, 57-70.	1.6	28
142	Effects of the dipolar interaction on the equilibrium morphologies of a single supramolecular magnetic filament in bulk. <i>Journal of Chemical Physics</i> , 2013, 139, 044904.	1.2	28
143	Properties of Apolar Solutes in Alkyl Imidazoliumâ€™Based Ionic Liquids: The Importance of Local Interactions. <i>ChemPhysChem</i> , 2016, 17, 387-394.	1.0	28
144	Poly(sodium acrylate) hydrogels: synthesis of various network architectures, local molecular dynamics, salt partitioning, desalination and simulation. <i>Soft Matter</i> , 2019, 15, 9949-9964.	1.2	28

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145	Specific ion effects for polyelectrolytes in aqueous and non-aqueous media: the importance of the ion solvation behavior. <i>Soft Matter</i> , 2018, 14, 6243-6255.	1.2	27
146	Ensemble inequivalence in single-molecule experiments. <i>Physical Review E</i> , 2009, 79, 051118.	0.8	26
147	Interlaced P3M algorithm with analytical and ik-differentiation. <i>Journal of Chemical Physics</i> , 2010, 132, 234103.	1.2	26
148	Phase diagram for a single flexible Stockmayer polymer at zero field. <i>Soft Matter</i> , 2013, 9, 7185.	1.2	26
149	The Raspberry model for hydrodynamic interactions revisited. II. The effect of confinement. <i>Journal of Chemical Physics</i> , 2015, 143, 084108.	1.2	26
150	First-Principles Parametrization of Polarizable Coarse-Grained Force Fields for Ionic Liquids. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1471-1486.	2.3	26
151	Polyelectrolyte bundles. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2135-S2144.	0.7	25
152	Communication: Kinetic and pairing contributions in the dielectric spectra of electrolyte solutions. <i>Journal of Chemical Physics</i> , 2014, 140, 211101.	1.2	25
153	Coarse-grained simulations of an ionic liquid-based capacitor: I. Density, ion size, and valency effects. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 284108.	0.7	25
154	Towards a scale-bridging description of ferrogels and magnetic elastomers. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 325105.	0.7	25
155	Properties of the polarizable MARTINI water model: A comparative study for aqueous electrolyte solutions. <i>Journal of Molecular Liquids</i> , 2015, 212, 103-110.	2.3	25
156	Understanding the onset of oscillatory swimming in microchannels. <i>Soft Matter</i> , 2016, 12, 4704-4708.	1.2	25
157	Hyperspin manifolds. <i>International Journal of Theoretical Physics</i> , 1986, 25, 441-463.	0.5	24
158	A lattice Boltzmann model for squirmers. <i>Journal of Chemical Physics</i> , 2019, 150, 144110.	1.2	24
159	Osmotic Coefficient Calculations for Dilute Solutions of Short Stiff-Chain Polyelectrolytes. <i>Macromolecules</i> , 2007, 40, 731-738.	2.2	23
160	The optimal P3M algorithm for computing electrostatic energies in periodic systems. <i>Journal of Chemical Physics</i> , 2008, 128, 034109.	1.2	23
161	Refining classical force fields for ionic liquids: theory and application to [MMIM][Cl]. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2037-2049.	1.3	23
162	Microstructure and magnetic properties of magnetic fluids consisting of shifted dipole particles under the influence of an external magnetic field. <i>Journal of Chemical Physics</i> , 2013, 139, 214901.	1.2	23

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163	Moving charged particles in lattice Boltzmann-based electrokinetics. <i>Journal of Chemical Physics</i> , 2016, 145, 214102.	1.2	23
164	Microphase separation and the formation of ion conductivity channels in poly(ionic liquid)s: A coarse-grained molecular dynamics study. <i>Journal of Chemical Physics</i> , 2018, 148, 193824.	1.2	23
165	Studying the field-controlled change of shape and elasticity of magnetic gels using particle-based simulations. <i>Archive of Applied Mechanics</i> , 2019, 89, 3-16.	1.2	23
166	An extensible lattice Boltzmann method for viscoelastic flows: complex and moving boundaries in Oldroyd-B fluids. <i>European Physical Journal E</i> , 2021, 44, 1.	0.7	23
167	Implicit Method for Simulating Electrohydrodynamics of Polyelectrolytes. <i>Physical Review Letters</i> , 2010, 105, 148301.	2.9	22
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169	Magnetic particles with shifted dipoles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1269-1272.	1.0	22
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