

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	Magnetic field controlled behavior of magnetic gels studied using particle-based simulations. <i>ChemistrySelect</i> , 2023, 8, 1465-1486.	0.7	2
2	Order and information in the patterns of spinning magnetic micro-disks at the air-water interface. <i>Science Advances</i> , 2022, 8, eabk0685.	4.7	20
3	The pH-Dependent Swelling of Weak Polyelectrolyte Hydrogels Modeled at Different Levels of Resolution. <i>Macromolecules</i> , 2022, 55, 3176-3188.	2.2	11
4	A thermalized electrokinetics model including stochastic reactions suitable for multiscale simulations of reaction-advection-diffusion systems. <i>Journal of Computational Science</i> , 2022, 63, 101770.	1.5	4
5	Can oppositely charged polyelectrolyte stars form a gel? A simulational study. <i>Soft Matter</i> , 2021, 17, 1574-1588.	1.2	6
6	The Presence of a Wall Enhances the Probability for Ring-Closing Metathesis: Insights from Classical Polymer Theory and Atomistic Simulations. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2000076.	0.6	1
7	Frequency-dependent magnetic susceptibility of magnetic nanoparticles in a polymer solution: a simulation study. <i>Soft Matter</i> , 2021, 17, 174-183.	1.2	17
8	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
9	Modeling the current modulation of bundled DNA structures in nanopores. <i>Journal of Chemical Physics</i> , 2021, 154, 054901.	1.2	4
10	Permeability Estimation of Regular Porous Structures: A Benchmark for Comparison of Methods. <i>Transport in Porous Media</i> , 2021, 138, 1-23.	1.2	18
11	Electrostatically Cross-Linked Reversible Gels—Effects of pH and Ionic Strength. <i>Macromolecules</i> , 2021, 54, 4769-4781.	2.2	15
12	Modeling of weak polyelectrolyte hydrogels under compression—Implications for water desalination. <i>Desalination</i> , 2021, 506, 114995.	4.0	13
13	The control effort to steer self-propelled microswimmers depends on their morphology: comparing symmetric spherical versus asymmetric <i>L</i> -shaped particles. <i>Royal Society Open Science</i> , 2021, 8, 201839.	1.1	1
14	Highly Efficient Active Colloids Driven by Galvanic Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 17015-17022.	6.6	15
15	A numerical investigation of analyte size effects in nanopore sensing systems. <i>Journal of Chemical Physics</i> , 2021, 155, 134902.	1.2	2
16	The influence of motility on bacterial accumulation in a microporous channel. <i>Soft Matter</i> , 2021, 17, 893-902.	1.2	11
17	Ionic screening in bulk and under confinement. <i>Journal of Chemical Physics</i> , 2021, 155, 204501.	1.2	19
18	The Effect of Small Organic Cosolutes on Water Structure and Dynamics. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 1197-1210.	1.0	17

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19	DFT Accurate Interatomic Potential for Molten NaCl from Machine Learning. Journal of Physical Chemistry C, 2020, 124, 25760-25768.	1.5	39
20	How to speed up ion transport in nanopores. Nature Communications, 2020, 11, 6085.	5.8	57
21	Bulk ionic screening lengths from extremely large-scale molecular dynamics simulations. Chemical Communications, 2020, 56, 15635-15638.	2.2	30
22	Machine-learned interatomic potentials by active learning: amorphous and liquid hafnium dioxide. Npj Computational Materials, 2020, 6, .	3.5	100
23	PDADMAC/PSS Oligoelectrolyte Multilayers: Internal Structure and Hydration Properties at Early Growth Stages from Atomistic Simulations. Molecules, 2020, 25, 1848.	1.7	5
24	Grand-Reaction Method for Simulations of Ionization Equilibria Coupled to Ion Partitioning. Macromolecules, 2020, 53, 3007-3020.	2.2	44
25	From the Atomistic to the Macromolecular Scale: Distinct Simulation Approaches for Polyelectrolyte Solutions. , 2020, , 1381-1395.		1
26	Studying the field-controlled change of shape and elasticity of magnetic gels using particle-based simulations. Archive of Applied Mechanics, 2019, 89, 3-16.	1.2	23
27	A computational model for bacterial run-and-tumble motion. Journal of Chemical Physics, 2019, 150, 174111.	1.2	12
28	Hydrodynamic mobility reversal of squirmers near flat and curved surfaces. Soft Matter, 2019, 15, 5908-5920.	1.2	22
29	Simulations of ionization equilibria in weak polyelectrolyte solutions and gels. Soft Matter, 2019, 15, 1155-1185.	1.2	78
30	Influence of weak groups on polyelectrolyte mobilities. Electrophoresis, 2019, 40, 799-809.	1.3	1
31	Accelerating the calculation of dipolar interactions in particle based simulations with open boundary conditions by means of the P2NFFT method. Journal of Computational Physics, 2019, 391, 243-258.	1.9	4
32	Modeling Gel Swelling Equilibrium in the Mean Field: From Explicit to Poisson-Boltzmann Models. Physical Review Letters, 2019, 122, 208002.	2.9	14
33	Modeling the current modulation of dsDNA in nanopores “ from mean-field to atomistic and back. European Physical Journal: Special Topics, 2019, 227, 1639-1655.	1.2	5
34	A lattice Boltzmann model for squirmers. Journal of Chemical Physics, 2019, 150, 144110.	1.2	24
35	ESResSo 4.0 “ an extensible software package for simulating soft matter systems. European Physical Journal: Special Topics, 2019, 227, 1789-1816.	1.2	127
36	Particle methods in natural science and engineering. European Physical Journal: Special Topics, 2019, 227, 1493-1499.	1.2	2

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37	Developing coarse-grained models for agglomerate growth. <i>European Physical Journal: Special Topics</i> , 2019, 227, 1515-1527.	1.2	4
38	Conformation and Dynamics of Long-Chain End-Tethered Polymers in Microchannels. <i>Polymers</i> , 2019, 11, 488.	2.0	9
39	Atomistic simulation of PDADMAC/PSS oligoelectrolyte multilayers: overall comparison of tri- and tetra-layer systems. <i>Soft Matter</i> , 2019, 15, 9437-9451.	1.2	5
40	Cell Model Approaches for Predicting the Swelling and Mechanical Properties of Polyelectrolyte Gels. <i>Macromolecules</i> , 2019, 52, 9341-9353.	2.2	9
41	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
42	Influence of Cosolutes on Chemical Equilibrium: a Kirkwoodâ€“Buff Theory for Ion Pair Associationâ€“Dissociation Processes in Ternary Electrolyte Solutions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10293-10302.	1.5	22
43	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
44	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
45	Polymer architecture of magnetic gels: a review. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 063002.	0.7	73
46	Toward Understanding of Self-Electrophoretic Propulsion under Realistic Conditions: From Bulk Reactions to Confinement Effects. <i>Accounts of Chemical Research</i> , 2018, 51, 2998-3005.	7.6	19
47	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
48	Relaxation of surface-tethered polymers under moderate confinement. <i>Soft Matter</i> , 2018, 14, 7926-7933.	1.2	1
49	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
50	A polarizable MARTINI model for monovalent ions in aqueous solution. <i>Journal of Chemical Physics</i> , 2018, 149, 163319.	1.2	32
51	Computer Simulations of Static and Dynamical Properties of Weak Polyelectrolyte Nanogels in Salty Solutions. <i>Gels</i> , 2018, 4, 2.	2.1	17
52	From the Atomistic to the Macromolecular Scale: Distinct Simulation Approaches for Polyelectrolyte Solutions. , 2018, , 1-15.		2
53	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
54	Microfluidic pumping by micromolar salt concentrations. <i>Soft Matter</i> , 2017, 13, 1505-1518.	1.2	46

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55	Wangâ€“Landau Reaction Ensemble Method: Simulation of Weak Polyelectrolytes and General Acidâ€“Base Reactions. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 852-862.	2.3	17
56	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
57	A self-consistent mean-field model for polyelectrolyte gels. <i>Soft Matter</i> , 2017, 13, 3264-3274.	1.2	34
58	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
59	A dsDNA model optimized for electrokinetic applications. <i>Soft Matter</i> , 2017, 13, 3918-3926.	1.2	6
60	Three-body effects in triplets of capped gold nanocrystals. <i>Molecular Physics</i> , 2017, 115, 1031-1040.	0.8	13
61	On the efficiency of a hydrogel-based desalination cycle. <i>Desalination</i> , 2017, 414, 28-34.	4.0	33
62	Ionic screening and dissociation are crucial for understanding chemical self-propulsion in polar solvents. <i>Soft Matter</i> , 2017, 13, 1200-1222.	1.2	95
63	Electric-field-induced stretching of surface-tethered polyelectrolytes in a microchannel. <i>Physical Review E</i> , 2017, 96, 032503.	0.8	3
64	The effect of finite pore length on ion structure and charging. <i>Journal of Chemical Physics</i> , 2017, 147, 104708.	1.2	29
65	The stretching force on a tethered polymer in pressure-driven flow. <i>Journal of Chemical Physics</i> , 2017, 147, 034902.	1.2	10
66	Nanoparticle Translocation through Conical Nanopores: A Finite Element Study of Electrokinetic Transport. <i>Macromolecular Theory and Simulations</i> , 2017, 26, 1600051.	0.6	13
67	Stretching of surface-tethered polymers in pressure-driven flow under confinement. <i>Soft Matter</i> , 2017, 13, 6189-6196.	1.2	15
68	A coarse-grained polarizable force field for the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 504004.	0.7	16
69	Dynamics of field-driven population inversion in a confined colloidal mixture. <i>Physical Review E</i> , 2017, 95, 022605.	0.8	0
70	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
71	Reducing spurious flow in simulations of electrokinetic phenomena. <i>Journal of Chemical Physics</i> , 2016, 145, 044901.	1.2	21
72	Surface roughness stabilizes the clustering of self-propelled triangles. <i>Journal of Chemical Physics</i> , 2016, 145, 134904.	1.2	13

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73	Lattice-Boltzmann hydrodynamics of anisotropic active matter. <i>Journal of Chemical Physics</i> , 2016, 144, 134106.	1.2	40
74	A coarse-grained DNA model for the prediction of current signals in DNA translocation experiments. <i>Journal of Chemical Physics</i> , 2016, 145, 194106.	1.2	9
75	Moving charged particles in lattice Boltzmann-based electrokinetics. <i>Journal of Chemical Physics</i> , 2016, 145, 214102.	1.2	23
76	Understanding the onset of oscillatory swimming in microchannels. <i>Soft Matter</i> , 2016, 12, 4704-4708.	1.2	25
77	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
78	Selective Trapping of DNA Using Glass Microcapillaries. <i>Langmuir</i> , 2016, 32, 8525-8532.	1.6	12
79	Preferential solvation and ion association properties in aqueous dimethyl sulfoxide solutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31312-31322.	1.3	30
80	Static polarizability effects on counterion distributions near charged dielectric surfaces: A coarse-grained Molecular Dynamics study employing the Drude model. <i>European Physical Journal: Special Topics</i> , 2016, 225, 1693-1705.	1.2	14
81	The efficiency of self-phoretic propulsion mechanisms with surface reaction heterogeneity. <i>Journal of Chemical Physics</i> , 2016, 144, 204902.	1.2	21
82	Atomistic Simulation of Oligoelectrolyte Multilayers Growth. , 2016, , 215-228.		1
83	Force Field Optimization for Ionic Liquids: FFOIL. , 2016, , 101-117.		0
84	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
85	Buckling of paramagnetic chains in soft gels. <i>Soft Matter</i> , 2016, 12, 228-237.	1.2	68
86	Importance of Varying Permittivity on the Conductivity of Polyelectrolyte Solutions. <i>Physical Review Letters</i> , 2015, 115, 118301.	2.9	33
87	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
88	Preface: Special Topic on Coarse Graining of Macromolecules, Biopolymers, and Membranes. <i>Journal of Chemical Physics</i> , 2015, 143, 242901.	1.2	2
89	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
90	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

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91	The Raspberry model for hydrodynamic interactions revisited. II. The effect of confinement. <i>Journal of Chemical Physics</i> , 2015, 143, 084108.	1.2	26
92	The influence of charged-induced variations in the local permittivity on the static and dynamic properties of polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 2015, 143, 243140.	1.2	14
93	Effective potentials between gold nano crystals – functional dependence on temperature. <i>Molecular Simulation</i> , 2015, 41, 1153-1158.	0.9	9
94	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
95	Electrophoresis of a Spherical Polyelectrolyte-Grafted Colloid in Monovalent Salt Solutions: Comparison of Molecular Dynamics Simulations with Theory and Numerical Calculations. <i>Macromolecules</i> , 2015, 48, 775-787.	2.2	20
96	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
97	Diffusiophoretic Self-Propulsion for Partially Catalytic Spherical Colloids. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 272-288.	2.2	29
98	Coarse-grained molecular dynamics simulation of small ferrogel objects. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 277-280.	1.0	21
99	Towards a scale-bridging description of ferrogels and magnetic elastomers. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 325105.	0.7	25
100	Electrode Models for Ionic Liquid-Based Capacitors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22445-22451.	1.5	54
101	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
102	Modeling of Polyelectrolyte Gels in Equilibrium with Salt Solutions. <i>Macromolecules</i> , 2015, 48, 7698-7708.	2.2	72
103	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
104	Computing the Coulomb interaction in inhomogeneous dielectric media via a local electrostatics lattice algorithm. <i>Physical Review E</i> , 2014, 90, 063304.	0.8	12
105	Lattice-Boltzmann simulations of the electrophoretic stretching of polyelectrolytes: The importance of hydrodynamic interactions. <i>Journal of Chemical Physics</i> , 2014, 140, 164904.	1.2	16
106	Mobility Reversal of Polyelectrolyte-Grafted Colloids in Monovalent Salt Solutions. <i>Physical Review Letters</i> , 2014, 113, 238301.	2.9	29
107	Origin of Current Blockades in Nanopore Translocation Experiments. <i>Physical Review Letters</i> , 2014, 112, 018101.	2.9	51
108	Communication: Kinetic and pairing contributions in the dielectric spectra of electrolyte solutions. <i>Journal of Chemical Physics</i> , 2014, 140, 211101.	1.2	25

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109	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
110	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
111	Generic force fields for ionic liquids. <i>Journal of Molecular Liquids</i> , 2014, 192, 32-37.	2.3	32
112	Visual analysis for space–time aggregation of biomolecular simulations. <i>Faraday Discussions</i> , 2014, 169, 167-178.	1.6	6
113	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
114	Layer-by-Layer Formation of Oligoelectrolyte Multilayers: A Combined Experimental and Computational Study. <i>Soft Materials</i> , 2014, 12, S14-S21.	0.8	13
115	Computing the Electrophoretic Mobility of Large Spherical Colloids by Combining Explicit Ion Simulations with the Standard Electrokinetic Model. <i>Langmuir</i> , 2014, 30, 1758-1767.	1.6	18
116	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
117	Coarse-grained simulations of an ionic liquid-based capacitor: II. Asymmetry in ion shape and charge localization. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 284114.	0.7	17
118	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
119	ESPREsSo 3.1: Molecular Dynamics Software for Coarse-Grained Models. <i>Lecture Notes in Computational Science and Engineering</i> , 2013, , 1-23.	0.1	118
120	Complex Tracer Diffusion Dynamics in Polymer Solutions. <i>Physical Review Letters</i> , 2013, 111, 088301.	2.9	50
121	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
122	Cluster formation in systems of shifted-dipole particles. <i>Soft Matter</i> , 2013, 9, 3535.	1.2	32
123	Phase diagram for a single flexible Stockmayer polymer at zero field. <i>Soft Matter</i> , 2013, 9, 7185.	1.2	26
124	Comparison of scalable fast methods for long-range interactions. <i>Physical Review E</i> , 2013, 88, 063308.	0.8	72
125	Vapor-liquid coexistence of the Stockmayer fluid in nonuniform external fields. <i>Physical Review E</i> , 2013, 87, 052128.	0.8	7
126	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

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127	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
128	Electrophoretic mobility reversal of polyampholytes induced by strong electric fields or confinement. <i>Journal of Chemical Physics</i> , 2013, 138, 194905.	1.2	13
129	Efficient Algorithms for Electrostatic Interactions Including Dielectric Contrasts. <i>Entropy</i> , 2013, 15, 4569-4588.	1.1	41
130	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
131	Molecular Simulations of Hydrogels. , 2013, , 205-221.		12
132	Tracer diffusion in a crowded cylindrical channel. <i>Physical Review E</i> , 2013, 87, 062709.	0.8	21
133	On the Calculation of the Dielectric Properties of Liquid Ionic Systems. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2013, , 103-122.	0.2	12
134	Microstructure of Bidisperse Ferrofluids in a Monolayer. <i>Solid State Phenomena</i> , 2012, 190, 625-628.	0.3	2
135	Deformation mechanisms in 2D magnetic gels studied by computer simulations. <i>Soft Matter</i> , 2012, 8, 9923.	1.2	87
136	Properties of water in the interfacial region of a polyelectrolyte bilayer adsorbed onto a substrate studied by computer simulations. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11425.	1.3	13
137	How to Convert SPME to P3M: Influence Functions and Error Estimates. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 936-947.	2.3	21
138	Ionic liquids studied across different scales: A computational perspective. <i>Faraday Discussions</i> , 2012, 154, 111-132.	1.6	99
139	Effects of dielectric mismatch and chain flexibility on the translocation barriers of charged macromolecules through solid state nanopores. <i>Soft Matter</i> , 2012, 8, 9480.	1.2	12
140	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
141	Magnetic Flux Topology of 2D Point Dipoles. <i>Computer Graphics Forum</i> , 2012, 31, 955-964.	1.8	8
142	Semiflexible magnetic filaments near attractive flat surfaces: a Langevin dynamics study. <i>Soft Matter</i> , 2011, 7, 1809-1818.	1.2	16
143	An atomistic study of a poly(styrene sulfonate)/poly(diallyldimethylammonium) bilayer: the role of surface properties and charge reversal. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16336.	1.3	21
144	Ferrofluids with shifted dipoles: ground state structures. <i>Soft Matter</i> , 2011, 7, 5217.	1.2	46

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145	Influence of Charged Polymer Coatings on Electro-Osmotic Flow: Molecular Dynamics Simulations. <i>Macromolecules</i> , 2011, 44, 9455-9463.	2.2	30
146	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
147	Locality and Fluctuations: Trends in Imidazolium-Based Ionic Liquids and Beyond. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3040-3044.	2.3	93
148	Simulational study of anomalous tracer diffusion in hydrogels. <i>Colloid and Polymer Science</i> , 2011, 289, 523-534.	1.0	31
149	Removal of spurious self-interactions in particle-mesh methods. <i>Computer Physics Communications</i> , 2011, 182, 1919-1923.	3.0	7
150	Hydrogels in Poor Solvents: A Molecular Dynamics Study. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 721-734.	0.6	44
151	Novel Simulation Approaches for Polymeric and Soft Matter Systems. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 444-445.	0.6	2
152	Applying to DNA translocation: Effect of dielectric boundaries. <i>Computer Physics Communications</i> , 2011, 182, 33-35.	3.0	19
153	Study of the structure factor anisotropy and long range correlations of ferrofluids in the dilute low-coupling regime. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1246-1253.	1.0	4
154	Structure factor of ferrofluids with chain aggregates: Theory and computer simulations. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1263-1268.	1.0	12
155	Magnetic particles with shifted dipoles. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1269-1272.	1.0	22
156	Ground state structures in ferrofluid monolayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1298-1301.	1.0	10
157	Multiscale Approaches and Perspectives to Modeling Aqueous Electrolytes and Polyelectrolytes. <i>Topics in Current Chemistry</i> , 2011, 307, 251-294.	4.0	9
158	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
159	Particle-particle particle-mesh method for dipolar interactions: On error estimates and efficiency of schemes with analytical differentiation and mesh interlacing. <i>Journal of Chemical Physics</i> , 2011, 135, 184110.	1.2	6
160	Behavior of bulky ferrofluids in the diluted low-coupling regime: Theory and simulation. <i>Physical Review E</i> , 2010, 81, 011501.	0.8	30
161	Bidisperse monolayers: Theory and computer simulations. <i>Physics Procedia</i> , 2010, 9, 87-90.	1.2	3
162	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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163	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
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165	Interlaced P3M algorithm with analytical and ik-differentiation. <i>Journal of Chemical Physics</i> , 2010, 132, 234103.	1.2	26
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