

Alexander P Lyubartsev

List of Publications by Year in descending order

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174
papers

10,286
citations

34105

52
h-index

37204

96
g-index

180
all docs

180
docs citations

180
times ranked

8405
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced characterizations for stabilization/solidification technologies. , 2022, , 497-516.		1
2	Exploring High-Pressure Transformations in Low-Z (H ₂ , Ne) Hydrates at Low Temperatures. Crystals, 2022, 12, 9.	2.2	2
3	Efficient Production of Solar Hydrogen Peroxide Using Piezoelectric Polarization and Photoinduced Charge Transfer of Nanopiezoelectrics Sensitized by Carbon Quantum Dots. Advanced Science, 2022, 9, e2105792.	11.2	26
4	A Bottom-Up Coarse-Grained Model for Nucleosomeâ€“Nucleosome Interactions with Explicit Ions. Journal of Chemical Theory and Computation, 2022, 18, 3948-3960.	5.3	12
5	First principles characterisation of bioâ€“nano interface. Physical Chemistry Chemical Physics, 2021, 23, 13473-13482.	2.8	24
6	Structural investigation of three distinct amorphous forms of Ar hydrate. RSC Advances, 2021, 11, 30744-30754.	3.6	5
7	Pressure-induced amorphization of noble gas clathrate hydrates. Physical Review B, 2021, 103, .	3.2	6
8	To the fast calculation of the solvation free energy. Combining expanded ensembles with L2MC. Journal of Computational Chemistry, 2021, 42, 787-792.	3.3	0
9	Bottom-Up Coarse-Grained Modeling of DNA. Frontiers in Molecular Biosciences, 2021, 8, 645527.	3.5	22
10	Computational insight into the hydrogenation of CO ₂ and carbamic acids to methanol by a ruthenium(II)-based catalyst: The role of amino (NH) ligand group. Molecular Catalysis, 2021, 506, 111544.	2.0	4
11	Atomistic Molecular Dynamics Simulations of Lipids Near TiO ₂ Nanosurfaces. Journal of Physical Chemistry B, 2021, 125, 8048-8059.	2.6	4
12	Atomistic Perspective on Biomolecular Adsorption on Functionalized Carbon Nanomaterials under Ambient Conditions. Journal of Physical Chemistry B, 2021, 125, 416-430.	2.6	12
13	Modeling DNA Flexibility: Comparison of Force Fields from Atomistic to Multiscale Levels. Journal of Physical Chemistry B, 2020, 124, 38-49.	2.6	37
14	Prediction of Chronic Inflammation for Inhaled Particles: the Impact of Material Cycling and Quarantining in the Lung Epithelium. Advanced Materials, 2020, 32, e2003913.	21.0	14
15	Optimization of Slipids Force Field Parameters Describing Headgroups of Phospholipids. Journal of Physical Chemistry B, 2020, 124, 8784-8793.	2.6	35
16	Improved Sampling in Ab Initio Free Energy Calculations of Biomolecules at Solidâ€“Liquid Interfaces: Tight-Binding Assessment of Charged Amino Acids on TiO ₂ Anatase (101). Computation, 2020, 8, 12.	2.0	5
17	Modelling of interactions between AÎ²(25â€“35) peptide and phospholipid bilayers: effects of cholesterol and lipid saturation. RSC Advances, 2020, 10, 3902-3915.	3.6	11
18	Disease Prediction: Prediction of Chronic Inflammation for Inhaled Particles: the Impact of Material Cycling and Quarantining in the Lung Epithelium (Adv. Mater. 47/2020). Advanced Materials, 2020, 32, .	21.0	0

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19	A multiscale model of protein adsorption on a nanoparticle surface. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 084003.	2.0	26
20	Implicit solvent systematic coarse-graining of dioleoylphosphatidylethanolamine lipids: From the inverted hexagonal to the bilayer structure. <i>PLoS ONE</i> , 2019, 14, e0214673.	2.5	4
21	Effect of lipid saturation on amyloid-beta peptide partitioning and aggregation in neuronal membranes: molecular dynamics simulations. <i>European Biophysics Journal</i> , 2019, 48, 813-824.	2.2	21
22	Curvature sensing by cardiolipin in simulated buckled membranes. <i>Soft Matter</i> , 2019, 15, 792-802.	2.7	54
23	A multiscale analysis of DNA phase separation: from atomistic to mesoscale level. <i>Nucleic Acids Research</i> , 2019, 47, 5550-5562.	14.5	24
24	Cholesterol in phospholipid bilayers: positions and orientations inside membranes with different unsaturation degrees. <i>Soft Matter</i> , 2019, 15, 78-93.	2.7	52
25	Magic v.3: An integrated software package for systematic structure-based coarse-graining. <i>Computer Physics Communications</i> , 2019, 237, 263-273.	7.5	22
26	A systematic analysis of nucleosome core particle and nucleosome-nucleosome stacking structure. <i>Scientific Reports</i> , 2018, 8, 1543.	3.3	43
27	Computing Curvature Sensitivity of Biomolecules in Membranes by Simulated Buckling. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1643-1655.	5.3	19
28	Unperturbed hydrocarbon chains and liquid phase bilayer lipid chains: a computer simulation study. <i>European Biophysics Journal</i> , 2018, 47, 109-130.	2.2	2
29	Stress Relief and Reactivity Loss of Hydrated Anatase (001) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22407-22417.	3.1	6
30	Molecular Dynamics Simulations of Furfural and 5-Hydroxymethylfurfural at Ambient and Hydrothermal Conditions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8416-8428.	2.6	7
31	Coarse-Grained Simulation of Rodlike Higher-Order Quadruplex Structures at Different Salt Concentrations. <i>ACS Omega</i> , 2017, 2, 386-396.	3.5	8
32	Multiscale Modelling of Bionano Interface. <i>Advances in Experimental Medicine and Biology</i> , 2017, 947, 173-206.	1.6	14
33	Anesthetics mechanism on a DMPC lipid membrane model: Insights from molecular dynamics simulations. <i>Biophysical Chemistry</i> , 2017, 226, 1-13.	2.8	16
34	Quantum chemical and molecular dynamics modelling of hydroxylated polybrominated diphenyl ethers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28263-28274.	2.8	6
35	Computationally based analysis of the energy efficiency of a CO2 capture process. <i>Chemical Engineering Science</i> , 2017, 174, 174-188.	3.8	8
36	All-Atom MD Simulation of DNA Condensation Using <i>Ab Initio</i> Derived Force Field Parameters of Cobalt(III)-Hexammine. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7761-7770.	2.6	16

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37	Diffusion and reaction pathways of water near fully hydrated TiO ₂ surfaces from <i>ab initio</i> molecular dynamics. <i>Journal of Chemical Physics</i> , 2017, 147, 024704.	3.0	55
38	Transferable force-field for modelling of CO ₂ , N ₂ , O ₂ and Ar in all silica and Na ⁺ exchanged zeolites. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 045002.	2.0	53
39	Extension of the Slipids Force Field to Polyunsaturated Lipids. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12826-12842.	2.6	39
40	Base sequence specificity of counterion binding to DNA: what can MD simulations tell us?. <i>Canadian Journal of Chemistry</i> , 2016, 94, 1181-1188.	1.1	15
41	Reactive wetting properties of TiO ₂ nanoparticles predicted by <i>ab initio</i> molecular dynamics simulations. <i>Nanoscale</i> , 2016, 8, 13385-13398.	5.6	18
42	Force Field Development for Lipid Membrane Simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2483-2497.	2.6	80
43	Multiscale coarse-grained modelling of chromatin components: DNA and the nucleosome. <i>Advances in Colloid and Interface Science</i> , 2016, 232, 36-48.	14.7	19
44	Systematic hierarchical coarse-graining with the inverse Monte Carlo method. <i>Journal of Chemical Physics</i> , 2015, 143, 243120.	3.0	33
45	Multiscale modelling of nucleosome core particle aggregation. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 064111.	1.8	10
46	Systematic Optimization of a Force Field for Classical Simulations of TiO ₂ –Water Interfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18110-18125.	3.1	53
47	Molecular Dynamics Simulations of Adsorption of Amino Acid Side Chain Analogues and a Titanium Binding Peptide on the TiO ₂ (100) Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18126-18139.	3.1	77
48	Toward Atomistic Resolution Structure of Phosphatidylcholine Headgroup and Glycerol Backbone at Different Ambient Conditions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15075-15088.	2.6	109
49	AMBER-ii: New Combining Rules and Force Field for Perfluoroalkanes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14563-14573.	2.6	21
50	Binding energy calculations for hevein–carbohydrate interactions using expanded ensemble molecular dynamics simulations. <i>Journal of Computer-Aided Molecular Design</i> , 2015, 29, 13-21.	2.9	9
51	Bond orientation properties in lipid molecules of membranes: molecular dynamics simulations. <i>Journal of Physics: Conference Series</i> , 2014, 510, 012022.	0.4	6
52	Molecular dynamics simulations demonstrate the regulation of DNA–DNA attraction by H4 histone tail acetylations and mutations. <i>Biopolymers</i> , 2014, 101, 1051-1064.	2.4	22
53	Systematic implicit solvent coarse graining of dimyristoylphosphatidylcholine lipids. <i>Journal of Computational Chemistry</i> , 2014, 35, 1208-1218.	3.3	18
54	A Coarse-Grained DNA Model Parameterized from Atomistic Simulations by Inverse Monte Carlo. <i>Polymers</i> , 2014, 6, 1655-1675.	4.5	55

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55	Update to the General Amber Force Field for Small Solutes with an Emphasis on Free Energies of Hydration. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3793-3804.	2.6	47
56	A new AMBER-compatible force field parameter set for alkanes. <i>Journal of Molecular Modeling</i> , 2014, 20, 2143.	1.8	19
57	Molecular Dynamics Studies of Liposomes as Carriers for Photosensitizing Drugs: Development, Validation, and Simulations with a Coarse-Grained Model. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5-13.	5.3	44
58	Interactions and Stacking in Ordered Mononucleosomes and Folded Chromatin: Effects of Histone Tail Modifications. <i>Biophysical Journal</i> , 2014, 106, 74a.	0.5	0
59	DNA Counterion Distributions: Molecular Simulations. , 2014, , 1193-1204.		0
60	Computer simulation of lipid membranes: Methodology and achievements. <i>Polymer Science - Series C</i> , 2013, 55, 162-180.	1.7	26
61	Another Piece of the Membrane Puzzle: Extending Slipids Further. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 774-784.	5.3	237
62	Implicit inclusion of atomic polarization in modeling of partitioning between water and lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4677.	2.8	43
63	MagiC: Software Package for Multiscale Modeling. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1512-1520.	5.3	54
64	2D to 3D crossover of the magnetic properties in ordered arrays of iron oxide nanocrystals. <i>Nanoscale</i> , 2013, 5, 953-960.	5.6	43
65	Exploring the Free Energy Landscape of Solutes Embedded in Lipid Bilayers. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1781-1787.	4.6	103
66	Multiscale coarse-grained simulations of ionic liquids: comparison of three approaches to derive effective potentials. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7701.	2.8	41
67	Partial atomic charges and their impact on the free energy of solvation. <i>Journal of Computational Chemistry</i> , 2013, 34, 187-197.	3.3	60
68	An Advanced Coarse-Grained Nucleosome Core Particle Model for Computer Simulations of Nucleosome-Nucleosome Interactions under Varying Ionic Conditions. <i>PLoS ONE</i> , 2013, 8, e54228.	2.5	46
69	Derivation and Systematic Validation of a Refined All-Atom Force Field for Phosphatidylcholine Lipids. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3164-3179.	2.6	486
70	An Extension and Further Validation of an All-Atomistic Force Field for Biological Membranes. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2938-2948.	5.3	408
71	Phase transitions and thermodynamic properties of dense assemblies of truncated nanocubes and cuboctahedra. <i>Nanoscale</i> , 2012, 4, 4765.	5.6	10
72	M.DynaMix Studies of Solvation, Solubility and Permeability. , 2012, , .		2

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73	The polyelectrolyte properties of chromatin. <i>Soft Matter</i> , 2012, 8, 9322.	2.7	76
74	Modelling chromatin structure and dynamics: status and prospects. <i>Current Opinion in Structural Biology</i> , 2012, 22, 151-159.	5.7	36
75	Molecular Dynamics Simulation Study of Glycerol-Water Liquid Mixtures. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14572-14581.	2.6	51
76	Effective solvent mediated potentials of Na ⁺ and Cl ⁻ ions in aqueous solution: temperature dependence. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5722.	2.8	35
77	Recent development in computer simulations of lipid bilayers. <i>Soft Matter</i> , 2011, 7, 25-39.	2.7	132
78	Solute-Solvent Interactions in Aqueous Glycylglycine-CuCl ₂ Solutions: Acoustical and Molecular Dynamics Perspective. <i>Journal of Solution Chemistry</i> , 2011, 40, 1657-1671.	1.2	9
79	Two-Dimensional Wang-Landau Algorithm for Osmotic Pressure Calculations in a Polyelectrolyte Membrane System. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 496-509.	1.4	4
80	Calculation of Canonical Properties and Excited States by Path Integral Numerical Methods. <i>Contributions To Plasma Physics</i> , 2011, 51, 382-385.	1.1	1
81	Simulation of polymers by the Monte Carlo method using the Wang-Landau algorithm. <i>Polymer Science - Series A</i> , 2010, 52, 742-760.	1.0	9
82	Theoretical approximations to X-ray absorption spectroscopy of liquid water and ice. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 177, 135-157.	1.7	132
83	Cation-induced polyelectrolyte-polyelectrolyte attraction in solutions of DNA and nucleosome core particles. <i>Advances in Colloid and Interface Science</i> , 2010, 158, 32-47.	14.7	43
84	Molecular dynamics simulations of local anesthetic articaine in a lipid bilayer. <i>Biophysical Chemistry</i> , 2010, 153, 27-35.	2.8	69
85	Reply to Soper et al.: Fluctuations in water around a bimodal distribution of local hydrogen-bonded structural motifs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, .	7.1	44
86	Centroid molecular dynamics: Comparison with exact results for model systems. <i>Journal of Chemical Physics</i> , 2010, 133, 194103.	3.0	11
87	Electrostatic Origin of Salt-Induced Nucleosome Array Compaction. <i>Biophysical Journal</i> , 2010, 99, 1896-1905.	0.5	54
88	Molecular Dynamics Investigation of Dipeptide - Transition Metal Salts in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16632-16640.	2.6	11
89	Systematic coarse-graining of molecular models by the Newton inversion method. <i>Faraday Discussions</i> , 2010, 144, 43-56.	3.2	139
90	Path-integral-expanded-ensemble Monte Carlo method in treatment of the sign problem for fermions. <i>Physical Review E</i> , 2009, 80, 066702.	2.1	9

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91	Assessing the electric-field approximation to IR and Raman spectra of dilute HOD in D2O. <i>Journal of Chemical Physics</i> , 2009, 131, 034501.	3.0	11
92	One dimensional model for water and aqueous solutions. Part V. Monte Carlo simulation of dilute solutions of hard rod in waterlike particles. <i>Journal of Chemical Physics</i> , 2009, 131, 204507.	3.0	0
93	Conformational characteristics of single flexible polyelectrolyte chain. <i>European Physical Journal E</i> , 2009, 30, 341-50.	1.6	13
94	The inhomogeneous structure of water at ambient conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15214-15218.	7.1	526
95	Computer Modeling Reveals that Modifications of the Histone Tail Charges Define Salt-Dependent Interaction of the Nucleosome Core Particles. <i>Biophysical Journal</i> , 2009, 96, 2082-2094.	0.5	26
96	Structural Evidence for the Ordered Crystallites of Ionic Liquid in Confined Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10013-10020.	3.1	82
97	Hierarchical Multiscale Modelling Scheme from First Principles to Mesoscale. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 951-959.	0.4	22
98	Modification of the CHARMM force field for DMPC lipid bilayer. <i>Journal of Computational Chemistry</i> , 2008, 29, 2359-2369.	3.3	63
99	Effect of Local Anesthetic Lidocaine on Electrostatic Properties of a Lipid Bilayer. <i>Biophysical Journal</i> , 2008, 94, 525-531.	0.5	76
100	NMR investigations of interactions between anesthetics and lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2604-2611.	2.6	30
101	Interacting electrons in one dimension: a path integral Monte Carlo study. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 7151-7157.	2.1	2
102	Molecular Conformations in a Phospholipid Bilayer Extracted from Dipolar Couplings: A Computer Simulation Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13638-13644.	2.6	6
103	Entropic sampling of flexible polyelectrolytes within the Wang-Landau algorithm. <i>Physical Review E</i> , 2007, 75, 016705.	2.1	20
104	New six-site acetonitrile model for simulations of liquid acetonitrile and its aqueous mixtures. <i>Journal of Computational Chemistry</i> , 2007, 28, 2020-2026.	3.3	124
105	Dynamical and structural properties of charged and uncharged lidocaine in a lipid bilayer. <i>Biophysical Chemistry</i> , 2007, 125, 416-424.	2.8	58
106	Solvating, manipulating, damaging, and repairing DNA in a computer. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 279-291.	2.0	3
107	Molecular dynamics investigations of local anesthetic lidocaine in DMPC lipid bilayer. <i>Chemistry and Physics of Lipids</i> , 2007, 149, S30.	3.2	0
108	A Molecular Dynamics Investigation of the Influence of Hydration and Temperature on Structural and Dynamical Properties of a Dimyristoylphosphatidylcholine Bilayer. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14326-14336.	2.6	92

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109	Computer Modeling Demonstrates that Electrostatic Attraction of Nucleosomal DNA is Mediated by Histone Tails. <i>Biophysical Journal</i> , 2006, 90, 4305-4316.	0.5	67
110	First and Second Hydration Shell of Ni ²⁺ Studied by Molecular Dynamics Simulations. <i>Theoretical Chemistry Accounts</i> , 2006, 115, 170-176.	1.4	11
111	Path integral method in quantum statistics problems: generalized ensemble Monte Carlo and density functional approach. <i>Journal of Physics A</i> , 2006, 39, 4711-4716.	1.6	3
112	Entropic Sampling of Free and Ring Polymer Chains. <i>Macromolecular Theory and Simulations</i> , 2005, 14, 491-504.	1.4	14
113	Multiscale modeling of lipids and lipid bilayers. <i>European Biophysics Journal</i> , 2005, 35, 53-61.	2.2	146
114	Simulation of excited states and the sign problem in the path integral Monte Carlo method. <i>Journal of Physics A</i> , 2005, 38, 6659-6674.	1.6	30
115	Simulations of one- and two-electron systems by Bead-Fourier path integral molecular dynamics. <i>Journal of Chemical Physics</i> , 2005, 123, 034105.	3.0	2
116	Solvation Structure of Hydroxyl Radical by CarâˆParrinello Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 2005, 109, 378-386.	2.5	49
117	Determination of solvation free energies by adaptive expanded ensemble molecular dynamics. <i>Journal of Chemical Physics</i> , 2004, 120, 3770-3776.	3.0	41
118	Electrostatic Background of Chromatin Fiber Stretching. <i>Journal of Biomolecular Structure and Dynamics</i> , 2004, 22, 215-226.	3.5	21
119	A molecular dynamics simulation study of polyamine ⁺ and sodium ⁺ DNA. Interplay between polyamine binding and DNA structure. <i>European Biophysics Journal</i> , 2004, 33, 671-682.	2.2	31
120	Molecular dynamics simulation study of oriented polyamine ⁺ and Na ⁺ -DNA: Sequence specific interactions and effects on DNA structure. <i>Biopolymers</i> , 2004, 73, 542-555.	2.4	31
121	Molecular Dynamics Investigation of ²³ Na NMR Relaxation in Oligomeric DNA Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16295-16302.	2.6	22
122	Application of the Poisson Boltzmann polyelectrolyte model for analysis of thermal denaturation of DNA in the presence of Na ⁺ and polyamine cations. <i>Biophysical Chemistry</i> , 2003, 104, 55-66.	2.8	15
123	Internal Structure and Dynamics of the Decamer D(ATGCAGTCAG) ₂ In Li ⁺ + -H ₂ O Solution: A molecular Dynamics Simulation Study. <i>Molecular Simulation</i> , 2003, 29, 47-62.	2.0	3
124	Temperature and Concentration Effects on Li ⁺ -Ion Hydration. A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3234-3242.	2.6	76
125	Modeling a Boltzmann Distribution: Simbo (Simulated Boltzmann). <i>Journal of Chemical Education</i> , 2003, 80, 109.	2.3	2
126	Computer modeling of melting of ionized ice microcrystals. <i>Journal of Chemical Physics</i> , 2003, 119, 10237-10246.	3.0	12

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127	Bead-Fourier path integral molecular dynamics. <i>Physical Review E</i> , 2003, 67, 066710.	2.1	9
128	A molecular dynamics simulation study of oriented DNA with polyamine and sodium counterions: diffusion and averaged binding of water and cations. <i>Nucleic Acids Research</i> , 2003, 31, 5971-5981.	14.5	75
129	Entropic sampling in the path integral Monte Carlo method. <i>Journal of Physics A</i> , 2003, 36, 685-693.	1.6	18
130	Molecular dynamics simulations of water clusters with ions at atmospheric conditions. <i>Journal of Chemical Physics</i> , 2002, 116, 7879-7892.	3.0	52
131	Investigation of Water Clusters Containing OH ⁻ and H ₃ O ⁺ Ions in Atmospheric Conditions. A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6479-6487.	2.6	53
132	Evaluation of effective ion-ion potentials in aqueous electrolytes. <i>Physical Review E</i> , 2002, 65, 041202.	2.1	45
133	On Coarse-Graining by the Inverse Monte Carlo Method: Dissipative Particle Dynamics Simulations Made to a Precise Tool in Soft Matter Modeling. <i>Soft Materials</i> , 2002, 1, 121-137.	1.7	78
134	Application of the Poisson Boltzmann Polyelectrolyte Model for Analysis of Equilibria Between Single-, Double-, and Triple-Stranded Polynucleotides in the Presence of K ⁺ , Na ⁺ , and Mg ²⁺ ions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2002, 20, 275-290.	3.5	15
135	Metal Ion-Induced Lateral Aggregation of Filamentous Viruses fd and M13. <i>Biophysical Journal</i> , 2002, 83, 566-581.	0.5	68
136	On the Competition between Water, Sodium Ions, and Spermine in Binding to DNA: A Molecular Dynamics Computer Simulation Study. <i>Biophysical Journal</i> , 2002, 82, 2860-2875.	0.5	118
137	Hydration of Li ⁺ ion. An ab initio molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 2001, 114, 3120-3126.	3.0	195
138	Solubility of Organic Compounds in Water/Octanol Systems. A Expanded Ensemble Molecular Dynamics Simulation Study of logPParameters. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7775-7782.	2.6	63
139	Spermine: an "invisible" component in the crystals of B-DNA. A grand canonical Monte Carlo and molecular dynamics simulation study. <i>Journal of Molecular Biology</i> , 2001, 308, 907-917.	4.2	78
140	Molecular Dynamics Simulations of Dimethyl Sulfoxide and Dimethyl Sulfoxide~Water Mixture. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1702-1710.	2.5	197
141	Effective macroion-macroion potentials in asymmetric electrolytes. <i>Physical Review E</i> , 2001, 63, 020401.	2.1	71
142	Molecular dynamics simulations of ubiquinone; a survey over torsional potentials and hydrogen bonds. <i>Molecular Physics</i> , 2001, 99, 1795-1804.	1.7	15
143	Competitive substitution of hexamine cobalt(III) for Na ⁺ and K ⁺ ions in oriented DNA fibers. <i>Biopolymers</i> , 2001, 58, 268-278.	2.4	25
144	McMillan's Mayer theory for solvent effects in inhomogeneous systems: Calculation of interaction pressure in aqueous electrical double layers. <i>Journal of Chemical Physics</i> , 2001, 114, 9565-9577.	3.0	29

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145	Spatial distribution functions as a tool in the analysis of ribonucleic acids hydration " molecular dynamics studies. Computers & Chemistry, 2000, 24, 451-457.	1.2	26
146	Determination of effective pair potentials from ab initio simulations: application to liquid water. Chemical Physics Letters, 2000, 325, 15-21.	2.6	28
147	M.DynaMix " a scalable portable parallel MD simulation package for arbitrary molecular mixtures. Computer Physics Communications, 2000, 128, 565-589.	7.5	374
148	Computer Simulation Study of tert-Butyl Alcohol. 1. Structure in the Pure Liquid. Journal of Physical Chemistry B, 2000, 104, 9526-9532.	2.6	59
149	Computer Simulation Study of tert-Butyl Alcohol. 2. Structure in Aqueous Solution. Journal of Physical Chemistry B, 2000, 104, 9533-9539.	2.6	94
150	Topological and spatial aspects of the hydration of solutes of extreme solvation entropy. Physical Review E, 1999, 60, 4482-4495.	2.1	14
151	Reconstruction of pair interaction potentials from radial distribution functions. Computer Physics Communications, 1999, 121-122, 57-59.	7.5	11
152	Effective potentials for ion-DNA interactions. Journal of Chemical Physics, 1999, 111, 11207-11215.	3.0	81
153	Competitive Binding of Mg ²⁺ , Ca ²⁺ , Na ⁺ , and K ⁺ Ions to DNA in Oriented DNA Fibers: Experimental and Monte Carlo Simulation Results. Biophysical Journal, 1999, 77, 2736-2749.	0.5	108
154	Experimental and Monte Carlo Simulation Studies on the Competitive Binding of Li ⁺ , Na ⁺ , and K ⁺ Ions to DNA in Oriented DNA Fibers. Journal of Physical Chemistry B, 1999, 103, 9008-9019.	2.6	30
155	Self-Diffusion and Association of Li ⁺ , Cs ⁺ , and H ₂ O in Oriented DNA Fibers. An NMR and MD Simulation Study. Journal of Physical Chemistry B, 1998, 102, 10636-10642.	2.6	21
156	Application of Polyelectrolyte Theories for Analysis of DNA Melting in the Presence of Na ⁺ and Mg ²⁺ Ions. Biophysical Journal, 1998, 75, 3041-3056.	0.5	61
157	Parallel molecular dynamics simulations of biomolecular systems. Lecture Notes in Computer Science, 1998, , 296-303.	1.3	7
158	Molecular Dynamics Simulations of DNA in Solution with Different Counter-ions. Journal of Biomolecular Structure and Dynamics, 1998, 16, 579-592.	3.5	81
159	Electrostatically Induced Polyelectrolyte Association of Rodlike Virus Particles. Physical Review Letters, 1998, 81, 5465-5468.	7.8	80
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