

Roland Faller

List of Publications by Year in descending order

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172
papers

5,241
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81900

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times ranked

5462
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#	ARTICLE	IF	CITATIONS
1	A molecular dynamics investigation of N-glycosylation effects on T-cell receptor kinetics. Journal of Biomolecular Structure and Dynamics, 2023, 41, 5614-5623.	3.5	1
2	Interplay of distributions of multiple guest molecules in block copolymer micelles: A dissipative particle dynamics study. Journal of Colloid and Interface Science, 2022, 607, 1142-1152.	9.4	4
3	SARS-CoV-2 spike binding to ACE2 is stronger and longer ranged due to glycan interaction. Biophysical Journal, 2022, 121, 79-90.	0.5	23
4	An unprecedented fully reduced $\{MoV\}_{60}$ polyoxometalate: from an all-inorganic molecular light-absorber model to improved photoelectronic performance. Chemical Science, 2022, 13, 4573-4580.	7.4	22
5	Using molecular dynamics simulations to interrogate T cell receptor non-equilibrium kinetics. Computational and Structural Biotechnology Journal, 2022, 20, 2124-2133.	4.1	9
6	Impact of Surface Polarity on Lipid Assembly under Spatial Confinement. Langmuir, 2022, 38, 7545-7557.	3.5	0
7	A computational algorithm to assess the physiochemical determinants of T cell receptor dissociation kinetics. Computational and Structural Biotechnology Journal, 2022, 20, 3473-3481.	4.1	1
8	Computing inelastic neutron scattering spectra from molecular dynamics trajectories. Scientific Reports, 2021, 11, 7938.	3.3	7
9	Contributions of the international plant science community to the fight against infectious diseases in humans – part 2: Affordable drugs in edible plants for endemic and re-emerging diseases. Plant Biotechnology Journal, 2021, 19, 1921-1936.	8.3	31
10	Contributions of the international plant science community to the fight against human infectious diseases – part 1: epidemic and pandemic diseases. Plant Biotechnology Journal, 2021, 19, 1901-1920.	8.3	44
11	Determining structure and action mechanism of LBF14 by molecular simulation. Journal of Biomolecular Structure and Dynamics, 2021, , 1-12.	3.5	2
12	Comparing the Expense and Accuracy of Methods to Simulate Atomic Vibrations in Rubrene. Journal of Chemical Theory and Computation, 2021, , .	5.3	3
13	Aggregation and pressure effects of asphaltene and resin molecules at oil-water interfaces: a coarse-grained molecular dynamics and free energy study. Soft Materials, 2020, 18, 113-127.	1.7	7
14	Harnessed Dopant Block Copolymers Assist Decorating Membrane Pores: A Dissipative Particle Dynamics Study. Macromolecular Rapid Communications, 2020, 41, e1900561.	3.9	7
15	Development and simulation of fully glycosylated molecular models of ACE2-Fc fusion proteins and their interaction with the SARS-CoV-2 spike protein binding domain. PLoS ONE, 2020, 15, e0237295.	2.5	36
16	Predictive Model of Charge Mobilities in Organic Semiconductor Small Molecules with Force-Matched Potentials. Journal of Chemical Theory and Computation, 2020, 16, 3494-3503.	5.3	12
17	Confining Liquids inside Carbon Nanotubes: Accelerated Molecular Dynamics with Spliced, Soft-Core Potentials and Simulated Annealing. Journal of Chemical Theory and Computation, 2020, 16, 2692-2702.	5.3	0
18	New Means to Control Molecular Assembly. Journal of Physical Chemistry C, 2020, 124, 6405-6412.	3.1	9

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19	Editorial: tailor-made approaches on use of multiscale modeling for research on soft materials – capabilities, restrictions and future possibilities. <i>Soft Materials</i> , 2020, 18, 111-112.	1.7	0
20	Porous Organic Frameworks Featured by Distinct Confining Fields for the Selective Hydrogenation of Biomass-Derived Ketones. <i>Advanced Materials</i> , 2020, 32, e1908243.	21.0	22
21	Porous Aromatic Framework Nanosheets Anchored with Lewis Pairs for Efficient and Recyclable Heterogeneous Catalysis. <i>Advanced Science</i> , 2020, 7, 2000067.	11.2	22
22	Effects of N-Glycosylation on the Structure, Function, and Stability of a Plant-Made Fc-Fusion Anthrax Decoy Protein. <i>Frontiers in Plant Science</i> , 2019, 10, 768.	3.6	29
23	ACPYPE update for nonuniform 1-4 scale factors: Conversion of the GLYCAM06 force field from AMBER to GROMACS. <i>SoftwareX</i> , 2019, 10, 100241.	2.6	41
24	Direct probe of the nuclear modes limiting charge mobility in molecular semiconductors. <i>Materials Horizons</i> , 2019, 6, 182-191.	12.2	53
25	Computational modelling of atomic layer etching of chlorinated germanium surfaces by argon. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5898-5902.	2.8	6
26	Computational and Experimental Studies on Novel Materials for Fission Gas Capture. <i>Minerals, Metals and Materials Series</i> , 2019, , 1039-1050.	0.4	0
27	Molecular investigation of gas adsorption, separation, and transport on carbon nanoscrolls: A combined grand canonical Monte Carlo and molecular dynamics study. <i>Carbon</i> , 2018, 132, 401-410.	10.3	13
28	Put Your Backbone into It: Excited-State Structural Relaxation of PffBT4T-2DT Conducting Polymer in Solution. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7020-7026.	3.1	7
29	Multiscale modeling on biological systems. <i>Biochemical and Biophysical Research Communications</i> , 2018, 498, 263.	2.1	2
30	Atomistic modeling of La ³⁺ doping segregation effect on nanocrystalline yttria-stabilized zirconia. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13215-13223.	2.8	8
31	Molecular dynamics simulations on heterogeneity and percolation of epoxy nanofilm during glass transition process. <i>Materials Chemistry and Physics</i> , 2018, 213, 239-248.	4.0	16
32	Patterning of Wrinkled Polymer Surfaces by Single-Step Electron Irradiation. <i>Langmuir</i> , 2018, 34, 5290-5296.	3.5	8
33	Controllable Multigeometry Nanoparticles via Cooperative Assembly of Amphiphilic Diblock Copolymer Blends with Asymmetric Architectures. <i>ACS Nano</i> , 2018, 12, 1413-1419.	14.6	23
34	Molecular simulation study of aluminum-noble gas interfacial thermal accommodation coefficients. <i>AIChE Journal</i> , 2018, 64, 338-345.	3.6	11
35	Polymorphism controls the degree of charge transfer in a molecularly doped semiconducting polymer. <i>Materials Horizons</i> , 2018, 5, 655-660.	12.2	92
36	Molecular Dynamics Modeling of Methylene Blue~DOPC Lipid Bilayer Interactions. <i>Langmuir</i> , 2018, 34, 4314-4323.	3.5	19

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37	Helium interactions with alumina formed by atomic layer deposition show potential for mitigating problems with excess helium in spent nuclear fuel. <i>Journal of Nuclear Materials</i> , 2018, 499, 301-311.	2.7	8
38	Directional Statistics of Preferential Orientations of Two Shapes in Their Aggregate and Its Application to Nanoparticle Aggregation. <i>Technometrics</i> , 2018, 60, 332-344.	1.9	5
39	Structural Analysis of Human Glycoprotein Butyrylcholinesterase using Atomistic Molecular Dynamics: The Importance of Glycosylation Site ASN241. <i>Biophysical Journal</i> , 2018, 114, 47a.	0.5	0
40	Energetic design of grain boundary networks for toughening of nanocrystalline oxides. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4260-4267.	5.7	22
41	Computational and Experimental Studies on Novel Materials for Fission Gas Capture. <i>Minerals, Metals and Materials Series</i> , 2018, , 1039-1050.	0.4	0
42	Molecular dynamics simulations of ternary lipid bilayers containing plant sterol and glucosylceramide. <i>Chemistry and Physics of Lipids</i> , 2017, 203, 24-32.	3.2	13
43	Modeling organic electronic materials: bridging length and time scales. <i>Molecular Simulation</i> , 2017, 43, 730-742.	2.0	8
44	Identifying Atomic Scale Structure in Undoped/Doped Semicrystalline P3HT Using Inelastic Neutron Scattering. <i>Macromolecules</i> , 2017, 50, 2424-2435.	4.8	52
45	Mechanism of the fcc-to-hcp phase transformation in solid Ar. <i>Journal of Chemical Physics</i> , 2017, 146, 214502.	3.0	17
46	Development and Application of a Coarse-Grained Model for PNIPAM by Iterative Boltzmann Inversion and Its Combination with Lattice Boltzmann Hydrodynamics. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10394-10406.	2.6	14
47	Ligand exchange based molecular doping in 2D hybrid molecule-nanoparticle arrays: length determines exchange efficiency and conductance. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 440-448.	3.4	8
48	Controllable multicompartment morphologies from cooperative self-assembly of copolymer-copolymer blends. <i>Soft Matter</i> , 2017, 13, 5877-5887.	2.7	15
49	Tunable Permeability of Cross-Linked Microcapsules from pH-Responsive Amphiphilic Diblock Copolymers: A Dissipative Particle Dynamics Study. <i>Langmuir</i> , 2017, 33, 7288-7297.	3.5	29
50	Structural analysis of human glycoprotein butyrylcholinesterase using atomistic molecular dynamics: The importance of glycosylation site ASN241. <i>PLoS ONE</i> , 2017, 12, e0187994.	2.5	15
51	Reactive Molecular Dynamics Simulations of the Silanization of Silica Substrates by Methoxysilanes and Hydroxysilanes. <i>Langmuir</i> , 2016, 32, 7045-7055.	3.5	8
52	A quantum chemistry study of curvature effects on boron nitride nanotubes/nanosheets for gas adsorption. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19944-19949.	2.8	19
53	Applications: general discussion. <i>Faraday Discussions</i> , 2016, 191, 565-595.	3.2	0
54	Understanding the Interaction of Pluronic L61 and L64 with a DOPC Lipid Bilayer: An Atomistic Molecular Dynamics Study. <i>Langmuir</i> , 2016, 32, 10026-10033.	3.5	17

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55	Particles at interfaces: general discussion. Faraday Discussions, 2016, 191, 407-434.	3.2	1
56	Response to Extreme Temperatures of Mesoporous Silica MCM-41: Porous Structure Transformation Simulation and Modification of Gas Adsorption Properties. Langmuir, 2016, 32, 11422-11431.	3.5	13
57	The raspberry model for protein-like particles: Ellipsoids and confinement in cylindrical pores. European Physical Journal: Special Topics, 2016, 225, 1643-1662.	2.6	9
58	The Mechanisms for Preferential Attachment of Nanoparticles in Liquid Determined Using Liquid Cell Electron Microscopy, Machine Learning, and Molecular Dynamics. Microscopy and Microanalysis, 2016, 22, 812-813.	0.4	1
59	Understanding the Role of Solvation Forces on the Preferential Attachment of Nanoparticles in Liquid. ACS Nano, 2016, 10, 181-187.	14.6	51
60	Direct Phase Equilibrium Simulations of NIPAM Oligomers in Water. Journal of Physical Chemistry B, 2016, 120, 3434-3440.	2.6	42
61	Molecular modeling of lipid probes and their influence on the membrane. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2353-2361.	2.6	26
62	Molecular simulation of adsorption and separation of pure noble gases and noble gas mixtures on single wall carbon nanotubes. Computational Materials Science, 2016, 114, 160-166.	3.0	23
63	Refinement of a coarse-grained model of poly(2,6-dimethyl-1,4-phenylene ether) and its application to blends of PPE and PS. Molecular Simulation, 2016, 42, 312-320.	2.0	3
64	Molecular dynamics simulations on the interaction of the transmembrane NavAb channel with cholesterol and lipids in the membrane. Journal of Biomolecular Structure and Dynamics, 2016, 34, 318-326.	3.5	5
65	Molecular dynamics of different polymer blends containing poly(2,6-dimethyl-1,4-phenylene ether). Physical Chemistry Chemical Physics, 2015, 17, 4714-4723.	2.8	8
66	Reactive modeling of the initial stages of alkoxy silane polycondensation: effects of precursor molecule structure and solution composition. Soft Matter, 2015, 11, 6780-6789.	2.7	19
67	Multiscale molecular modeling of tertiary supported lipid bilayers. Proceedings of SPIE, 2015, , .	0.8	0
68	Design Principles for Nanoparticles Enveloped by a Polymer-Tethered Lipid Membrane. ACS Nano, 2015, 9, 9942-9954.	14.6	22
69	Reactive Molecular Dynamics Simulations of Siliceous Solids Polycondensed from Tetra- and Trihydroxysilane. Journal of Non-Crystalline Solids, 2015, 429, 183-189.	3.1	10
70	Molecular Dynamics Study of the Local Structure of Photovoltaic Polymer PCDTBT. Journal of Chemical & Engineering Data, 2014, 59, 2982-2986.	1.9	4
71	Parallel Optimization of a Reactive Force Field for Polycondensation of Alkoxy silanes. Journal of Physical Chemistry B, 2014, 118, 10966-10978.	2.6	37
72	Modeling of Polystyrene under Confinement: Exploring the Limits of Iterative Boltzmann Inversion. Macromolecules, 2013, 46, 7957-7976.	4.8	23

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73	Molecular dynamics simulation of dipalmitoylphosphatidylcholine modified with a MTSL nitroxide spin label in a lipid membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2770-2777.	2.6	8
74	Normal and shear interactions between high grafting density polymer brushes grown by atom transfer radical polymerization. <i>Soft Matter</i> , 2013, 9, 5753.	2.7	21
75	Molecular transport of proteins through nanoporous membranes fabricated by interferometric lithography. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 965-971.	2.8	13
76	Simulating realistic imaging conditions for in situ liquid microscopy. <i>Ultramicroscopy</i> , 2013, 135, 36-42.	1.9	20
77	Compression of High Grafting Density Opposing Polymer Brushes Using Molecular Dynamics Simulations in Explicit Solvent. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4134-4141.	2.6	10
78	Conformational, Dynamical, and Tensional Study of Tethered Bilayer Lipid Membranes in Coarse-Grained Molecular Simulations. <i>Langmuir</i> , 2012, 28, 15907-15915.	3.5	23
79	Simulations of PEGylated and Tethered Lipid Bilayers. <i>Biophysical Journal</i> , 2012, 102, 503a.	0.5	0
80	Mesoscale simulations of biomolecular transport through nanofilters with tapered and cylindrical geometries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15066.	2.8	6
81	Molecular Dynamics Study of a MARTINI Coarse-Grained Polystyrene Brush in Good Solvent: Structure and Dynamics. <i>Macromolecules</i> , 2012, 45, 563-571.	4.8	30
82	Pressure and Surface Tension Control Self-Assembled Structures in Mixtures of Pegylated and Non-Pegylated Lipids. <i>Langmuir</i> , 2012, 28, 2275-2280.	3.5	17
83	Role of Unsaturated Lipid and Ergosterol in Ethanol Tolerance of Model Yeast Biomembranes. <i>Biophysical Journal</i> , 2012, 102, 507-516.	0.5	115
84	A Molecular Dynamics Technique to Extract Forces in Soft Matter Systems Under Compression With Constant Solvent Chemical Potential. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1072-1077.	5.3	7
85	Coarse-Grained Modeling of Polystyrene in Various Environments by Iterative Boltzmann Inversion. <i>Macromolecules</i> , 2012, 45, 9205-9219.	4.8	72
86	Multi-Scale Modeling of Bulk Heterojunctions for Organic Photovoltaic Applications. , 2012, , .		2
87	Structural properties of polystyrene oligomers in different environments: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18107.	2.8	3
88	Lipid Domain Depletion at Small Localized Bends Imposed by a Step Geometry. <i>Langmuir</i> , 2011, 27, 2783-2788.	3.5	17
89	Crystalline, Ordered and Disordered Lipid Membranes: Convergence of Stress Profiles due to Ergosterol. <i>Journal of the American Chemical Society</i> , 2011, 133, 3720-3723.	13.7	17
90	Bilayer Structure and Lipid Dynamics in a Model Stratum Corneum with Oleic Acid. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3164-3171.	2.6	64

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91	Computational Modeling of Curvature Effects in Supported Lipid Bilayers. <i>Current Nanoscience</i> , 2011, 7, 716-720.	1.2	12
92	The Impact of Texas Red on Lipid Bilayer Properties. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8500-8505.	2.6	58
93	Characterization of polymer–fullerene mixtures for organic photovoltaics by systematically coarse-grained molecular simulations. <i>Fluid Phase Equilibria</i> , 2011, 302, 21-25.	2.5	51
94	A comparative MD study of the local structure of polymer semiconductors P3HT and PBTTT. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14735.	2.8	69
95	Folding and unfolding characteristics of short beta strand peptides under different environmental conditions and starting configurations. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 2003-2015.	2.3	6
96	Molecular Simulation Study of the Structure of High Density Polymer Brushes in Good Solvent. <i>Macromolecules</i> , 2010, 43, 9131-9138.	4.8	47
97	Coarse-Grained Computer Simulations of Polymer/Fullerene Bulk Heterojunctions for Organic Photovoltaic Applications. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 526-537.	5.3	166
98	Membrane Curvature Modeling and Lipid Organization in Supported Lipid Bilayers. <i>Biophysical Journal</i> , 2010, 98, 78a-79a.	0.5	0
99	Molecular Modeling of Biomembranes: A How-to Approach. , 2010, , 35-58.		2
100	What Is the Difference Between a Supported and a Free Bilayer? Insights from Molecular Modeling on Different Scales. <i>Behavior Research Methods</i> , 2010, 11, 127-157.	4.0	2
101	Influence of Ethanol on Lipid/Sterol Membranes: Phase Diagram Construction from AFM Imaging. <i>Langmuir</i> , 2010, 26, 10415-10418.	3.5	32
102	Silica xerogel/aerogel-supported lipid bilayers: Consequences of surface corrugation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 719-729.	2.6	26
103	Structure and Phase Behavior of Cholesterol Containing Membranes in the Presence of Ethanol. <i>Biophysical Journal</i> , 2010, 98, 491a.	0.5	0
104	What is the Difference Between a Supported and a Free Lipid Bilayer?. <i>Biophysical Journal</i> , 2010, 98, 283a.	0.5	0
105	Coarse-grained modeling of lipids. <i>Chemistry and Physics of Lipids</i> , 2009, 159, 59-66.	3.2	83
106	Density imbalances and free energy of lipid transfer in supported lipid bilayers. <i>Journal of Chemical Physics</i> , 2009, 131, 175104.	3.0	32
107	Structural Determination of High Density, ATRP Grown Polystyrene Brushes by Neutron Reflectivity. <i>Macromolecules</i> , 2009, 42, 9523-9527.	4.8	26
108	Using Ergosterol To Mitigate the Deleterious Effects of Ethanol on Bilayer Structure. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2388-2397.	2.6	35

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109	Computational Studies of Texas Redâ€™ 1,2-Dihexadecanoyl- <i>sn</i> -glycero-3-phosphoethanolamine Model Building and Applications. Journal of Physical Chemistry B, 2009, 113, 8758-8766.	2.6	30
110	Water Replacement Hypothesis in Atomic Detail Factors Determining the Structure of Dehydrated Bilayer Stacks. Biophysical Journal, 2009, 97, 490-499.	0.5	56
111	Multiscale Modeling of Supported Lipid Bilayers. , 2009, , 101-120.		4
112	Asymmetric nature of lateral pressure profiles in supported lipid membranes and its implications for membrane protein functions. Soft Matter, 2009, 5, 3258.	2.7	32
113	Confined polymer systems: synergies between simulations and neutron scattering experiments. Soft Matter, 2009, 5, 4612.	2.7	20
114	Coarse-grained simulations of supported and unsupported lipid monolayers. Soft Matter, 2009, 5, 4526.	2.7	20
115	Multiscale Modeling of supported bilayers. Biophysical Journal, 2009, 96, 607a.	0.5	0
116	Examining the Contributions of Lipid Shape and Headgroup Charge on Bilayer Behavior. Biophysical Journal, 2008, 95, 2636-2646.	0.5	121
117	Behavioral Differences between Phosphatidic Acid and Phosphatidylcholine in the Presence of the Nicotinic Acetylcholine Receptor. Biophysical Journal, 2008, 95, 5637-5647.	0.5	10
118	Drying and Rehydration of DLPC/DSPC Symmetric and Asymmetric Supported Lipid Bilayers: a Combined AFM and Fluorescence Microscopy Study. Langmuir, 2008, 24, 10371-10381.	3.5	22
119	Characterization of domain instabilities in lipid bilayers by Karhunenâ€™ Loeve analysis. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1154-1180.	2.6	1
120	Coarse-grained modeling of interactions of lipid bilayers with supports. Journal of Chemical Physics, 2008, 129, 175102.	3.0	36
121	Interactions of Lipid Bilayers with Supports: A Coarse-Grained Molecular Simulation Study. Journal of Physical Chemistry B, 2008, 112, 7086-7094.	2.6	90
122	Comparing the density of states of binary Lennard-Jones glasses in bulk and film. Journal of Chemical Physics, 2008, 128, 124509.	3.0	8
123	Coarse Grained Simulation of Lipid Membrane and Triblock Copolymers. AIP Conference Proceedings, 2008, , .	0.4	2
124	Density of States Simulations of Various Glass Formers. AIP Conference Proceedings, 2008, , .	0.4	0
125	State-Point Dependence and Transferability of Potentials in Systematic Structural Coarse-Graining. , 2008, , 69-82.		0
126	State point dependence of systematically coarseâ€™grained potentials. Molecular Simulation, 2007, 33, 759-767.	2.0	60

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127	Phase separation in polyisoprene/polystyrene blends by a systematically coarse-grained model. <i>Journal of Chemical Physics</i> , 2007, 126, 144908.	3.0	28
128	Coarse-Grain Modeling of Polymers. <i>Reviews in Computational Chemistry</i> , 2007, , 233-262.	1.5	8
129	Phase behavior and dynamic heterogeneities in lipids: A coarse-grained simulation study of DPPCâ€“DPPE mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 620-627.	2.6	15
130	Coarse-grained simulations of ABA amphiphilic triblock copolymer solutions in thin films. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4662.	2.8	34
131	Phase and Mixing Behavior in Two-Component Lipid Bilayers:â€” A Molecular Dynamics Study in DLPC/DSPC Mixtures. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9504-9512.	2.6	22
132	Molecular-Scale Structure in Fluidâ”Gel Patterned Bilayers:â€” Stability of Interfaces and Transmembrane Distribution. <i>Langmuir</i> , 2007, 23, 12465-12468.	3.5	20
133	How Alcohol Chain-Length and Concentration Modulate Hydrogen Bond Formation in a Lipid Bilayer. <i>Biophysical Journal</i> , 2007, 92, 2366-2376.	0.5	87
134	Simulations of biomembranes and water: Important technical aspects. <i>Fluid Phase Equilibria</i> , 2007, 261, 18-25.	2.5	25
135	Multiscale modeling of polystyrene in various environments. <i>Fluid Phase Equilibria</i> , 2007, 261, 35-40.	2.5	13
136	Simulations of glasses: multiscale modeling and density of states Monte-Carlo simulations. <i>Molecular Simulation</i> , 2006, 32, 175-184.	2.0	9
137	Under the Influence of Alcohol: The Effect of Ethanol and Methanol on Lipid Bilayers. <i>Biophysical Journal</i> , 2006, 90, 1121-1135.	0.5	321
138	Systematic Coarse-Graining of a Polymer Blend:â” Polyisoprene and Polystyrene. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 607-615.	5.3	64
139	Crossover from Unentangled to Entangled Dynamics in a Systematically Coarse-Grained Polystyrene Melt. <i>Macromolecules</i> , 2006, 39, 812-820.	4.8	81
140	Karhunen-Loeve analysis for pattern description in phase separated lipid bilayer systems. <i>Journal of Chemical Physics</i> , 2006, 124, 234906.	3.0	5
141	Structural effects of small molecules on phospholipid bilayers investigated by molecular simulations. <i>Fluid Phase Equilibria</i> , 2005, 228-229, 135-140.	2.5	20
142	Systematic coarse-graining of atomistic models for simulation of polymeric systems. <i>Computers and Chemical Engineering</i> , 2005, 29, 2380-2385.	3.8	75
143	Investigating interactions of biomembranes and alcohols: A multiscale approach. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1025-1032.	2.1	27
144	Molecular Dynamics of a Polymer in Mixed Solvent:â” Atactic Polystyrene in a Mixture of Cyclohexane and N,N-Dimethylformamide. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15714-15723.	2.6	18

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145	Simulation of the effects of chain architecture on the sorption of ethylene in polyethylene. <i>Journal of Chemical Physics</i> , 2004, 120, 11304-11315.	3.0	42
146	Automatic coarse graining of polymers. <i>Polymer</i> , 2004, 45, 3869-3876.	3.8	105
147	Structural effects of small molecules on phospholipid bilayers investigated by molecular simulations. <i>Fluid Phase Equilibria</i> , 2004, 225, 63-68.	2.5	39
148	Correlation of Static and Dynamic Inhomogeneities in Polymer Mixtures: A Computer Simulation of Polyisoprene and Polystyrene. <i>Macromolecules</i> , 2004, 37, 1095-1101.	4.8	33
149	Simulation of Domain Formation in DLPC/DSPC Mixed Bilayers. <i>Langmuir</i> , 2004, 20, 7686-7693.	3.5	102
150	Properties of Poly(isoprene): A Model Building in the Melt and in Solution. <i>Macromolecules</i> , 2003, 36, 5406-5414.	4.8	64
151	Molecular Simulation Study of Phospholipid Bilayers and Insights of the Interactions with Disaccharides. <i>Biophysical Journal</i> , 2003, 85, 2830-2844.	0.5	200
152	Modeling the Binding of Cholera Toxin to a Lipid Membrane by a Non-additive Two-Dimensional Hard-Disk Model. <i>Soft Materials</i> , 2003, 1, 343-352.	1.7	12
153	Density of states of a binary Lennard-Jones glass. <i>Journal of Chemical Physics</i> , 2003, 119, 4405-4408.	3.0	55
154	Potential of mean force between a spherical particle suspended in a nematic liquid crystal and a substrate. <i>Journal of Chemical Physics</i> , 2002, 117, 7781-7787.	3.0	89
155	Density-of-states Monte Carlo method for simulation of fluids. <i>Journal of Chemical Physics</i> , 2002, 116, 8745-8749.	3.0	159
156	Multicanonical parallel tempering. <i>Journal of Chemical Physics</i> , 2002, 116, 5419-5423.	3.0	82
157	Constant pressure hybrid Molecular Dynamics/Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2002, 116, 55.	3.0	70
158	Structure and mobility of cyclohexane as a solvent for trans-polyisoprene. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2269-2272.	2.8	8
159	Modeling of poly(isoprene) melts on different scales. <i>Polymer</i> , 2002, 43, 621-628.	3.8	36
160	Local Structure and Dynamics of trans-Polyisoprene Oligomers. <i>Macromolecules</i> , 2001, 34, 1436-1448.	4.8	45
161	Chain Stiffness Intensifies the Reptation Characteristics of Polymer Dynamics in the Melt. <i>ChemPhysChem</i> , 2001, 2, 180-184.	2.1	49
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