Roland Faller

List of Publications by Year
in descending order

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172 papers	5,241 citations	81900 39 h-index	110387 64 g-index
182 all docs	182 docs citations	182 times ranked	5462 citing authors

#	Article	IF	Citations
1	Under the Influence of Alcohol: The Effect of Ethanol and Methanol on Lipid Bilayers. Biophysical Journal, 2006, 90, 1121-1135.	0.5	321
2	Molecular Simulation Study of Phospholipid Bilayers and Insights of the Interactions with Disaccharides. Biophysical Journal, 2003, 85, 2830-2844.	0.5	200
3	Coarse-Grained Computer Simulations of Polymer/Fullerene Bulk Heterojunctions for Organic Photovoltaic Applications. Journal of Chemical Theory and Computation, 2010, 6, 526-537.	5.3	166
4	Density-of-states Monte Carlo method for simulation of fluids. Journal of Chemical Physics, 2002, 116, 8745-8749.	3.0	159
5	Examining the Contributions of Lipid Shape and Headgroup Charge on Bilayer Behavior. Biophysical Journal, 2008, 95, 2636-2646.	0.5	121
6	Automatic parameterization of force fields for liquids by simplex optimization. Journal of Computational Chemistry, 1999, 20, 1009-1017.	3.3	118
7	Role of Unsaturated Lipid and Ergosterol in Ethanol Tolerance of Model Yeast Biomembranes. Biophysical Journal, 2012, 102, 507-516.	0.5	115
8	Coarse graining of nonbonded inter-particle potentials using automatic simplex optimization to fit structural properties. Journal of Chemical Physics, 2000, 113, 6264-6275.	3.0	111
9	Automatic coarse graining of polymers. Polymer, 2004, 45, 3869-3876.	3.8	105
10	Simulation of Domain Formation in DLPCâ"DSPC Mixed Bilayers. Langmuir, 2004, 20, 7686-7693.	3.5	102
11	Polymorphism controls the degree of charge transfer in a molecularly doped semiconducting polymer. Materials Horizons, 2018, 5, 655-660.	12.2	92
12	Interactions of Lipid Bilayers with Supports: A Coarse-Grained Molecular Simulation Study. Journal of Physical Chemistry B, 2008, 112, 7086-7094.	2.6	90
13	Potential of mean force between a spherical particle suspended in a nematic liquid crystal and a substrate. Journal of Chemical Physics, 2002, 117, 7781-7787.	3.0	89
14	How Alcohol Chain-Length and Concentration Modulate Hydrogen Bond Formation in a Lipid Bilayer. Biophysical Journal, 2007, 92, 2366-2376.	0.5	87
15	Coarse-grained modeling of lipids. Chemistry and Physics of Lipids, 2009, 159, 59-66.	3.2	83
16	Multicanonical parallel tempering. Journal of Chemical Physics, 2002, 116, 5419-5423.	3.0	82
17	Crossover from Unentangled to Entangled Dynamics in a Systematically Coarse-Grained Polystyrene Melt. Macromolecules, 2006, 39, 812-820.	4.8	81
18	Systematic coarse-graining of atomistic models for simulation of polymeric systems. Computers and Chemical Engineering, 2005, 29, 2380-2385.	3.8	75

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19	Local Reorientation Dynamics of Semiflexible Polymers in the Melt. Macromolecules, 2000, 33, 6602-6610.	4.8	74
20	Coarse-Grained Modeling of Polystyrene in Various Environments by Iterative Boltzmann Inversion. Macromolecules, 2012, 45, 9205-9219.	4.8	72
21	Constant pressure hybrid Molecular Dynamicsâ€“Monte Carlo simulations. Journal of Chemical Physics, 2002, 116, 55.	3.0	70
22	A comparative MD study of the local structure of polymer semiconductors P3HT and PBTTT. Physical Chemistry Chemical Physics, 2010, 12, 14735.	2.8	69
23	Properties of Poly(isoprene):Â Model Building in the Melt and in Solution. Macromolecules, 2003, 36, 5406-5414.	4.8	64
24	Systematic Coarse-Graining of a Polymer Blend:Â Polyisoprene and Polystyrene. Journal of Chemical Theory and Computation, 2006, 2, 607-615.	5.3	64
25	Bilayer Structure and Lipid Dynamics in a Model Stratum Corneum with Oleic Acid. Journal of Physical Chemistry B, 2011, 115, 3164-3171.	2.6	64
26	Local chain ordering in amorphous polymer melts: influence of chain stiffness. Physical Chemistry Chemical Physics, 1999, 1, 2071-2076.	2.8	63
27	State point dependence of systematically coarseâ€“grained potentials. Molecular Simulation, 2007, 33, 759-767.	2.0	60
28	The Impact of Texas Red on Lipid Bilayer Properties. Journal of Physical Chemistry B, 2011, 115, 8500-8505.	2.6	58
29	Water Replacement Hypothesis in Atomic Detailâ€”Factors Determining the Structure of Dehydrated Bilayer Stacks. Biophysical Journal, 2009, 97, 490-499.	0.5	56
30	Density of states of a binary Lennard-Jones glass. Journal of Chemical Physics, 2003, 119, 4405-4408.	3.0	55
31	Direct probe of the nuclear modes limiting charge mobility in molecular semiconductors. Materials Horizons, 2019, 6, 182-191.	12.2	53
32	Identifying Atomic Scale Structure in Undoped/Doped Semicrystalline P3HT Using Inelastic Neutron Scattering. Macromolecules, 2017, 50, 2424-2435.	4.8	52
33	Characterization of polymerâ€“fullerene mixtures for organic photovoltaics by systematically coarse-grained molecular simulations. Fluid Phase Equilibria, 2011, 302, 21-25.	2.5	51
34	Understanding the Role of Solvation Forces on the Preferential Attachment of Nanoparticles in Liquid. ACS Nano, 2016, 10, 181-187.	14.6	51
35	Chain Stiffness Intensifies the Reptation Characteristics of Polymer Dynamics in the Melt. ChemPhysChem, 2001, 2, 180-184.	2.1	49
36	Molecular Simulation Study of the Structure of High Density Polymer Brushes in Good Solvent. Macromolecules, 2010, 43, 9131-9138.	4.8	47

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37	Local Structure and Dynamics oftrans-Polyisoprene Oligomers. Macromolecules, 2001, 34, 1436-1448.	4.8	45
38	Contributions of the international plant science community to the fight against human infectious diseases â€“ part 1: epidemic and pandemic diseases. Plant Biotechnology Journal, 2021, 19, 1901-1920.	8.3	44
39	Simulation of the effects of chain architecture on the sorption of ethylene in polyethylene. Journal of Chemical Physics, 2004, 120, 11304-11315.	3.0	42
40	Direct Phase Equilibrium Simulations of NIPAM Oligomers in Water. Journal of Physical Chemistry B, 2016, 120, 3434-3440.	2.6	42
41	ACPYPE update for nonuniform 1â€“4 scale factors: Conversion of the GLYCAM06 force field from AMBER to GROMACS. SoftwareX, 2019, 10, 100241.	2.6	41
42	Structural effects of small molecules on phospholipid bilayers investigated by molecular simulations. Fluid Phase Equilibria, 2004, 225, 63-68.	2.5	39
43	Parallel Optimization of a Reactive Force Field for Polycondensation of Alkoxysilanes. Journal of Physical Chemistry B, 2014, 118, 10966-10978.	2.6	37
44	Modeling of poly(isoprene) melts on different scales. Polymer, 2002, 43, 621-628.	3.8	36
45	Coarse-grained modeling of interactions of lipid bilayers with supports. Journal of Chemical Physics, 2008, 129, 175102.	3.0	36
46	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
47	Using Ergosterol To Mitigate the Deleterious Effects of Ethanol on Bilayer Structure. Journal of Physical Chemistry B, 2009, 113, 2388-2397.	2.6	35
48	Coarse-grained simulations of ABA amphiphilic triblock copolymer solutions in thin films. Physical Chemistry Chemical Physics, 2007, 9, 4662.	2.8	34
49	Correlation of Static and Dynamic Inhomogeneities in Polymer Mixtures:Â A Computer Simulation of Polyisoprene and Polystyrene. Macromolecules, 2004, 37, 1095-1101.	4.8	33
50	Density imbalances and free energy of lipid transfer in supported lipid bilayers. Journal of Chemical Physics, 2009, 131, 175104.	3.0	32
51	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
52	Influence of Ethanol on Lipid/Sterol Membranes: Phase Diagram Construction from AFM Imaging. Langmuir, 2010, 26, 10415-10418.	3.5	32
53	Contributions of the international plant science community to the fight against infectious diseases in humansâ€”part 2: Affordable drugs in edible plants for endemic and reâ€emerging diseases. Plant Biotechnology Journal, 2021, 19, 1921-1936.	8.3	31
54	Computational Studies of Texas Redâ^'1,2-Dihexadecanoyl-sn-glycero-3-phosphoethanolamineâ€”Model Building and Applications. Journal of Physical Chemistry B, 2009, 113, 8758-8766.	2.6	30

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55	Molecular Dynamics Study of a MARTINI Coarse-Grained Polystyrene Brush in Good Solvent: Structure and Dynamics. Macromolecules, 2012, 45, 563-571.	4.8	30
56	Tunable Permeability of Cross-Linked Microcapsules from pH-Responsive Amphiphilic Diblock Copolymers: A Dissipative Particle Dynamics Study. Langmuir, 2017, 33, 7288-7297.	3.5	29
57	Effects of N-Glycosylation on the Structure, Function, and Stability of a Plant-Made Fc-Fusion Anthrax Decoy Protein. Frontiers in Plant Science, 2019, 10, 768.	3.6	29
58	Phase separation in polyisoprene/polystyrene blends by a systematically coarse-grained model. Journal of Chemical Physics, 2007, 126, 144908.	3.0	28
59	Investigating interactions of biomembranes and alcohols: A multiscale approach. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1025-1032.	2.1	27
60	Structural Determination of High Density, ATRP Grown Polystyrene Brushes by Neutron Reflectivity. Macromolecules, 2009, 42, 9523-9527.	4.8	26
61	Silica xerogel/aerogel-supported lipid bilayers: Consequences of surface corrugation. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 719-729.	2.6	26
62	Molecular modeling of lipid probes and their influence on the membrane. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2353-2361.	2.6	26
63	Simulations of biomembranes and water: Important technical aspects. Fluid Phase Equilibria, 2007, 261, 18-25.	2.5	25
64	Conformational, Dynamical. and Tensional Study of Tethered Bilayer Lipid Membranes in Coarse-Grained Molecular Simulations. Langmuir, 2012, 28, 15907-15915.	3.5	23
65	Modeling of Polystyrene under Confinement: Exploring the Limits of Iterative Boltzmann Inversion. Macromolecules, 2013, 46, 7957-7976.	4.8	23
66	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
67	Controllable Multigeometry Nanoparticles via Cooperative Assembly of Amphiphilic Diblock Copolymer Blends with Asymmetric Architectures. ACS Nano, 2018, 12, 1413-1419.	14.6	23
68	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
69	Phase and Mixing Behavior in Two-Component Lipid Bilayers:â€‰ A Molecular Dynamics Study in DLPC/DSPC Mixtures. Journal of Physical Chemistry B, 2007, 111, 9504-9512.	2.6	22
70	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
71	Design Principles for Nanoparticles Enveloped by a Polymer-Tethered Lipid Membrane. ACS Nano, 2015, 9, 9942-9954.	14.6	22
72	Energetic design of grain boundary networks for toughening of nanocrystalline oxides. Journal of the European Ceramic Society, 2018, 38, 4260-4267.	5.7	22

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73	Porous Organic Frameworks Featured by Distinct Confining Fields for the Selective Hydrogenation of Biomassâ€Derived Ketones. Advanced Materials, 2020, 32, e1908243.	21.0	22
74	Porous Aromatic Framework Nanosheets Anchored with Lewis Pairs for Efficient and Recyclable Heterogeneous Catalysis. Advanced Science, 2020, 7, 2000067.	11.2	22
75	An unprecedented fully reduced {Mo^V₆₀} polyoxometalate: from an all-inorganic molecular light-absorber model to improved photoelectronic performance. Chemical Science, 2022, 13, 4573-4580.	7.4	22
76	Molecular Mobility in Cyclic Hydrocarbons:Â A Simulation Study. Journal of Physical Chemistry B, 1999, 103, 9731-9737.	2.6	21
77	Normal and shear interactions between high grafting density polymer brushes grown by atom transfer radical polymerization. Soft Matter, 2013, 9, 5753.	2.7	21
78	Structural effects of small molecules on phospholipid bilayers investigated by molecular simulations. Fluid Phase Equilibria, 2005, 228-229, 135-140.	2.5	20
79	Molecular-Scale Structure in Fluidâ^'Gel Patterned Bilayers:â€‰ Stability of Interfaces and Transmembrane Distribution. Langmuir, 2007, 23, 12465-12468.	3.5	20
80	Confined polymer systems: synergies between simulations and neutron scattering experiments. Soft Matter, 2009, 5, 4612.	2.7	20
81	Coarse-grained simulations of supported and unsupported lipid monolayers. Soft Matter, 2009, 5, 4526.	2.7	20
82	Simulating realistic imaging conditions for in situ liquid microscopy. Ultramicroscopy, 2013, 135, 36-42.	1.9	20
83	Reactive modeling of the initial stages of alkoxysilane polycondensation: effects of precursor molecule structure and solution composition. Soft Matter, 2015, 11, 6780-6789.	2.7	19
84	A quantum chemistry study of curvature effects on boron nitride nanotubes/nanosheets for gas adsorption. Physical Chemistry Chemical Physics, 2016, 18, 19944-19949.	2.8	19
85	Molecular Dynamics Modeling of Methylene Blueâ^'DOPC Lipid Bilayer Interactions. Langmuir, 2018, 34, 4314-4323.	3.5	19
86	Molecular Dynamics of a Polymer in Mixed Solvent:Â Atactic Polystyrene in a Mixture of Cyclohexane andN,N-Dimethylformamide. Journal of Physical Chemistry B, 2005, 109, 15714-15723.	2.6	18
87	Lipid Domain Depletion at Small Localized Bends Imposed by a Step Geometry. Langmuir, 2011, 27, 2783-2788.	3.5	17
88	Crystalline, Ordered and Disordered Lipid Membranes: Convergence of Stress Profiles due to Ergosterol. Journal of the American Chemical Society, 2011, 133, 3720-3723.	13.7	17
89	Pressure and Surface Tension Control Self-Assembled Structures in Mixtures of Pegylated and Non-Pegylated Lipids. Langmuir, 2012, 28, 2275-2280.	3.5	17
90	Understanding the Interaction of Pluronics L61 and L64 with a DOPC Lipid Bilayer: An Atomistic Molecular Dynamics Study. Langmuir, 2016, 32, 10026-10033.	3.5	17

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91	Mechanism of the fcc-to-hcp phase transformation in solid Ar. Journal of Chemical Physics, 2017, 146, 214502.	3.0	17
92	Molecular dynamics simulations on heterogeneity and percolation of epoxy nanofilm during glass transition process. Materials Chemistry and Physics, 2018, 213, 239-248.	4.0	16
93	Phase behavior and dynamic heterogeneities in lipids: A coarse-grained simulation study of DPPCâ€“DPPE mixtures. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 620-627.	2.6	15
94	Controllable multicompartment morphologies from cooperative self-assembly of copolymerâ€“copolymer blends. Soft Matter, 2017, 13, 5877-5887.	2.7	15
95	Structural analysis of human glycoprotein butyrylcholinesterase using atomistic molecular dynamics: The importance of glycosylation site ASN241. PLoS ONE, 2017, 12, e0187994.	2.5	15
96	Phase chaos in the anisotropic complex Ginzburg-Landau equation. Physical Review E, 1998, 57, R6249-R6252.	2.1	14
97	Development and Application of a Coarse-Grained Model for PNIPAM by Iterative Boltzmann Inversion and Its Combination with Lattice Boltzmann Hydrodynamics. Journal of Physical Chemistry B, 2017, 121, 10394-10406.	2.6	14
98	Multiscale modeling of polystyrene in various environments. Fluid Phase Equilibria, 2007, 261, 35-40.	2.5	13
99	Molecular transport of proteins through nanoporous membranes fabricated by interferometric lithography. Physical Chemistry Chemical Physics, 2013, 15, 965-971.	2.8	13
100	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
101	Molecular dynamics simulations of ternary lipid bilayers containing plant sterol and glucosylceramide. Chemistry and Physics of Lipids, 2017, 203, 24-32.	3.2	13
102	Molecular investigation of gas adsorption, separation, and transport on carbon nanoscrolls: A combined grand canonical Monte Carlo and molecular dynamics study. Carbon, 2018, 132, 401-410.	10.3	13
103	Modeling the Binding of Cholera Toxin to a Lipid Membrane by a Nonâ€additive Twoâ€Dimensional Hardâ€Disk Model. Soft Materials, 2003, 1, 343-352.	1.7	12
104	Computational Modeling of Curvature Effects in Supported Lipid Bilayers. Current Nanoscience, 2011, 7, 716-720.	1.2	12
105	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
106	Molecular Simulation in Polymer Science: Understanding Experiments Better. Progress of Theoretical Physics Supplement, 2000, 138, 311-319.	0.1	11
107	Molecular simulation study of aluminumâ€“noble gas interfacial thermal accommodation coefficients. AICHE Journal, 2018, 64, 338-345.	3.6	11
108	Behavioral Differences between Phosphatidic Acid and Phosphatidylcholine in the Presence of the Nicotinic Acetylcholine Receptor. Biophysical Journal, 2008, 95, 5637-5647.	0.5	10

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109	Compression of High Grafting Density Opposing Polymer Brushes Using Molecular Dynamics Simulations in Explicit Solvent. Journal of Physical Chemistry B, 2013, 117, 4134-4141.	2.6	10
110	Reactive Molecular Dynamics Simulations of Siliceous Solids Polycondensed from Tetra- and Trihydroxysilane. Journal of Non-Crystalline Solids, 2015, 429, 183-189.	3.1	10
111	ORIENTATION CORRELATION IN SIMPLIFIED MODELS OF POLYMER MELTS. International Journal of Modern Physics C, 1999, 10, 355-360.	1.7	9
112	Simulations of glasses: multiscale modeling and density of states Monte-Carlo simulations. Molecular Simulation, 2006, 32, 175-184.	2.0	9
113	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
114	New Means to Control Molecular Assembly. Journal of Physical Chemistry C, 2020, 124, 6405-6412.	3.1	9
115	Using molecular dynamics simulations to interrogate T cell receptor non-equilibrium kinetics. Computational and Structural Biotechnology Journal, 2022, 20, 2124-2133.	4.1	9
116	Structure and mobility of cyclohexane as a solvent for trans-polyisoprene. Physical Chemistry Chemical Physics, 2002, 4, 2269-2272.	2.8	8
117	Coarse-Grain Modeling of Polymers. Reviews in Computational Chemistry, 2007, , 233-262.	1.5	8
118	Comparing the density of states of binary Lennard-Jones glasses in bulk and film. Journal of Chemical Physics, 2008, 128, 124509.	3.0	8
119	Molecular dynamics simulation of dipalmitoylphosphatidylcholine modified with a MTSL nitroxide spin label in a lipid membrane. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2770-2777.	2.6	8
120	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
121	Reactive Molecular Dynamics Simulations of the Silanization of Silica Substrates by Methoxysilanes and Hydroxysilanes. Langmuir, 2016, 32, 7045-7055.	3.5	8
122	Modeling organic electronic materials: bridging length and time scales. Molecular Simulation, 2017, 43, 730-742.	2.0	8
123	Ligand exchange based molecular doping in 2D hybrid molecule-nanoparticle arrays: length determines exchange efficiency and conductance. Molecular Systems Design and Engineering, 2017, 2, 440-448.	3.4	8
124	Atomistic modeling of La³⁺ doping segregation effect on nanocrystalline yttria-stabilized zirconia. Physical Chemistry Chemical Physics, 2018, 20, 13215-13223.	2.8	8
125	Patterning of Wrinkled Polymer Surfaces by Single-Step Electron Irradiation. Langmuir, 2018, 34, 5290-5296.	3.5	8
126	Helium interactions with alumina formed by atomic layer deposition show potential for mitigating problems with excess helium in spent nuclear fuel. Journal of Nuclear Materials, 2018, 499, 301-311.	2.7	8

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127	A Molecular Dynamics Technique to Extract Forces in Soft Matter Systems Under Compression With Constant Solvent Chemical Potential. Journal of Chemical Theory and Computation, 2012, 8, 1072-1077.	5.3	7
128	Put Your Backbone into It: Excited-State Structural Relaxation of PffBT4T-2DT Conducting Polymer in Solution. Journal of Physical Chemistry C, 2018, 122, 7020-7026.	3.1	7
129	Aggregation and pressure effects of asphaltene and resin molecules at oilâ€“water interfaces: a coarse-grained molecular dynamics and free energy study. Soft Materials, 2020, 18, 113-127.	1.7	7
130	Harnessed Dopant Block Copolymers Assist Decorating Membrane Pores: A Dissipative Particle Dynamics Study. Macromolecular Rapid Communications, 2020, 41, e1900561.	3.9	7
131	Computing inelastic neutron scattering spectra from molecular dynamics trajectories. Scientific Reports, 2021, 11, 7938.	3.3	7
132	Folding and unfolding characteristics of short beta strand peptides under different environmental conditions and starting configurations. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 2003-2015.	2.3	6
133	Mesoscale simulations of biomolecular transport through nanofilters with tapered and cylindrical geometries. Physical Chemistry Chemical Physics, 2012, 14, 15066.	2.8	6
134	Computational modelling of atomic layer etching of chlorinated germanium surfaces by argon. Physical Chemistry Chemical Physics, 2019, 21, 5898-5902.	2.8	6
135	Karhunen-Loeve analysis for pattern description in phase separated lipid bilayer systems. Journal of Chemical Physics, 2006, 124, 234906.	3.0	5
136	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
137	Directional Statistics of Preferential Orientations of Two Shapes in Their Aggregate and Its Application to Nanoparticle Aggregation. Technometrics, 2018, 60, 332-344.	1.9	5
138	Multiscale Modeling of Supported Lipid Bilayers. , 2009, , 101-120.		4
139	Molecular Dynamics Study of the Local Structure of Photovoltaic Polymer PCDTBT. Journal of Chemical & Engineering Data, 2014, 59, 2982-2986.	1.9	4
140	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
141	Structural properties of polystyrene oligomers in different environments: a molecular dynamics study. Physical Chemistry Chemical Physics, 2011, 13, 18107.	2.8	3
142	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
143	Comparing the Expense and Accuracy of Methods to Simulate Atomic Vibrations in Rubrene. Journal of Chemical Theory and Computation, 2021, , .	5.3	3
144	Coarse Grained Simulation of Lipid Membrane and Triblock Copolymers. AIP Conference Proceedings, 2008, , .	0.4	2

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145	Molecular Modeling of Biomembranes: A How-to Approach. , 2010, , 35-58.		2
146	What Is the Difference Between a Supported and a Free Bilayer? Insights from Molecular Modeling on Different Scales. Behavior Research Methods, 2010, 11, 127-157.	4.0	2
147	Multi-Scale Modeling of Bulk Heterojunctions for Organic Photovoltaic Applications. , 2012, , .		2
148	Multiscale modeling on biological systems. Biochemical and Biophysical Research Communications, 2018, 498, 263.	2.1	2
149	Determining structure and action mechanism of LBF14 by molecular simulation. Journal of Biomolecular Structure and Dynamics, 2021, , 1-12.	3.5	2
150	Development of a ReaxFF Force Field for Aqueous Phosphoenolpyruvate as a Novel Biomimetic Carbon Capture Absorbent. Journal of Physical Chemistry C, 0, , .	3.1	2
151	Production of novel SARSâ€CoVâ€2 Spike truncations in Chinese hamster ovary cells leads to high expression and binding to antibodies. Biotechnology Journal, 0, , 2100678.	3.5	2
152	Characterization of domain instabilities in lipid bilayers by Karhunenâ€“Loeve analysis. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1154-1180.	2.6	1
153	Particles at interfaces: general discussion. Faraday Discussions, 2016, 191, 407-434.	3.2	1
154	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
155	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
156	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
157	Density of States Simulations of Various Glass Formers. AIP Conference Proceedings, 2008, , .	0.4	0
158	Multiscale Modeling of supported bilayers. Biophysical Journal, 2009, 96, 607a.	0.5	0
159	Membrane Curvature Modeling and Lipid Organization in Supported Lipid Bilayers. Biophysical Journal, 2010, 98, 78a-79a.	0.5	0
160	Structure and Phase Behavior of Cholesterol Containing Membranes in the Presence of Ethanol. Biophysical Journal, 2010, 98, 491a.	0.5	0
161	What is the Difference Between a Supported and a Free Lipid Bilayer?. Biophysical Journal, 2010, 98, 283a.	0.5	0
162	Simulations of PEGylated and Tethered Lipid Bilayers. Biophysical Journal, 2012, 102, 503a.	0.5	0

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163	Multiscale molecular modeling of tertiary supported lipid bilayers. Proceedings of SPIE, 2015, , .	0.8	0
164	Applications: general discussion. Faraday Discussions, 2016, 191, 565-595.	3.2	0
165	Structural Analysis of Human Glycoprotein Butyrylcholinesterase using Atomistic Molecular Dynamics: The Importance of Glycosylation Site ASN241. Biophysical Journal, 2018, 114, 47a.	0.5	0
166	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
167	Editorial: tailor-made approaches on use of multiscale modeling for research on soft materials â€“ capabilities, restrictions and future possibilities. Soft Materials, 2020, 18, 111-112.	1.7	0
168	State-Point Dependence and Transferability of Potentials in Systematic Structural Coarse-Graining. , 2008, , 69-82.		0
169	Multiscale modeling shows differences between supported and free biomembranes. SPIE Newsroom, 0, , .	0.1	0
170	Computational and Experimental Studies on Novel Materials for Fission Gas Capture. Minerals, Metals and Materials Series, 2019, , 1039-1050.	0.4	0
171	Computational and Experimental Studies on Novel Materials for Fission Gas Capture. Minerals, Metals and Materials Series, 2018, , 1039-1050.	0.4	0
172	Impact of Surface Polarity on Lipid Assembly under Spatial Confinement. Langmuir, 2022, 38, 7545-7557.	3.5	0