

Siewert-Jan Marrink

List of Publications by Year in descending order

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292
papers

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citations

2696

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194
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all docs

319
docs citations

319
times ranked

26221
citing authors

#	ARTICLE	IF	CITATIONS
1	Two decades of Martini: Better beads, broader scope. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2023, 13, .	6.2	58
2	Polyply; a python suite for facilitating simulations of macromolecules and nanomaterials. Nature Communications, 2022, 13, 68.	5.8	48
3	Complex nanoemulsion for vitamin delivery: droplet organization and interaction with skin membranes. Nanoscale, 2022, 14, 506-514.	2.8	19
4	Protein dynamics and lipid affinity of monomeric, zeaxanthin-binding LHCII in thylakoid membranes. Biophysical Journal, 2022, 121, 396-409.	0.2	9
5	Membrane thickness, lipid phase and sterol type are determining factors in the permeability of membranes to small solutes. Nature Communications, 2022, 13, 1605.	5.8	81
6	Perspective: a stirring role for metabolism in cells. Molecular Systems Biology, 2022, 18, e10822.	3.2	12
7	Martini 3 Coarse-Grained Force Field: Small Molecules. Advanced Theory and Simulations, 2022, 5, .	1.3	72
8	Modelling structural properties of cyanine dye nanotubes at coarse-grained level. Nanoscale Advances, 2022, 4, 3033-3042.	2.2	5
9	Quantification of Protein Glycosylation Using Nanopores. Nano Letters, 2022, 22, 5357-5364.	4.5	29
10	Semiprocessive Hyperglycosylation of Adhesin by Bacterial Protein <i>N</i> -Glycosyltransferases. ACS Chemical Biology, 2021, 16, 165-175.	1.6	6
11	Coacervate formation studied by explicit solvent coarse-grain molecular dynamics with the Martini model. Chemical Science, 2021, 12, 8521-8530.	3.7	37
12	Biaryl sulfonamides as <i>cisoid</i> azosteres for photopharmacology. Chemical Communications, 2021, 57, 4126-4129.	2.2	9
13	Fullerene derivatives with oligoethylene glycol side chains: an investigation on the origin of their outstanding transport properties. Journal of Materials Chemistry C, 2021, 9, 16217-16225.	2.7	10
14	Thermostable D-amino acid decarboxylases derived from <i>Thermotoga maritima</i> diaminopimelate decarboxylase. Protein Engineering, Design and Selection, 2021, 34, .	1.0	2
15	A structural view onto disease-linked mutations in the human neutral amino acid exchanger ASCT1. Computational and Structural Biotechnology Journal, 2021, 19, 5246-5254.	1.9	9
16	Perspectives on High-Throughput Ligand/Protein Docking With Martini MD Simulations. Frontiers in Molecular Biosciences, 2021, 8, 657222.	1.6	25
17	Martini 3: a general purpose force field for coarse-grained molecular dynamics. Nature Methods, 2021, 18, 382-388.	9.0	557
18	Asymmetric CorA Gating Mechanism as Observed by Molecular Dynamics Simulations. Journal of Chemical Information and Modeling, 2021, 61, 2407-2417.	2.5	10

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19	General Protocol for Constructing Molecular Models of Nanodiscs. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2869-2883.	2.5	11
20	The Martini Model in Materials Science. <i>Advanced Materials</i> , 2021, 33, e2008635.	11.1	63
21	Capturing Membrane Phase Separation by Dual Resolution Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5876-5884.	2.3	10
22	Structure of the human signal peptidase complex reveals the determinants for signal peptide cleavage. <i>Molecular Cell</i> , 2021, 81, 3934-3948.e11.	4.5	51
23	Nonconverged Constraints Cause Artificial Temperature Gradients in Lipid Bilayer Simulations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9537-9546.	1.2	28
24	Computational Redesign of an α -Transaminase from <i>Pseudomonas jessenii</i> for Asymmetric Synthesis of Enantiopure Bulky Amines. <i>ACS Catalysis</i> , 2021, 11, 10733-10747.	5.5	28
25	Simulating realistic membrane shapes. <i>Current Opinion in Cell Biology</i> , 2021, 71, 103-111.	2.6	45
26	Protocol for Simulations of PEGylated Proteins with Martini 3. <i>Methods in Molecular Biology</i> , 2021, 2199, 315-335.	0.4	10
27	Computational Prediction of α -Transaminase Specificity by a Combination of Docking and Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5569-5580.	2.5	17
28	Sequential Voxel-Based Leaflet Segmentation of Complex Lipid Morphologies. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7873-7885.	2.3	8
29	Comparing Dimerization Free Energies and Binding Modes of Small Aromatic Molecules with Different Force Fields. <i>Molecules</i> , 2021, 26, 6069.	1.7	3
30	Bottom-up fabrication of a proteasome- α nanopore that unravels and processes single proteins. <i>Nature Chemistry</i> , 2021, 13, 1192-1199.	6.6	76
31	Martini 3 Coarse-Grained Model for Type III Deep Eutectic Solvents: Thermodynamic, Structural, and Extraction Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 17338-17350.	3.2	20
32	Molecular versus Excitonic Disorder in Individual Artificial Light-Harvesting Systems. <i>Journal of the American Chemical Society</i> , 2020, 142, 18073-18085.	6.6	13
33	Piezo1 Forms Specific, Functionally Important Interactions with Phosphoinositides and Cholesterol. <i>Biophysical Journal</i> , 2020, 119, 1683-1697.	0.2	60
34	Titrateable Martini model for constant pH simulations. <i>Journal of Chemical Physics</i> , 2020, 153, 024118.	1.2	57
35	Multiscale modeling of molecular structure and optical properties of complex supramolecular aggregates. <i>Chemical Science</i> , 2020, 11, 11514-11524.	3.7	18
36	Asymmetric Synthesis of Optically Pure Aliphatic Amines with an Engineered Robust α -Transaminase. <i>Catalysts</i> , 2020, 10, 1310.	1.6	10

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37	N-type organic thermoelectrics: demonstration of $ZT \geq 0.3$. <i>Nature Communications</i> , 2020, 11, 5694.	5.8	98
38	Computational and Experimental Advances in Biomembranes: Resolving Their Complexity. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9975-9976.	1.2	3
39	Protein–ligand binding with the coarse-grained Martini model. <i>Nature Communications</i> , 2020, 11, 3714.	5.8	139
40	Caught in the Act: Mechanistic Insight into Supramolecular Polymerization-Driven Self-Replication from Real-Time Visualization. <i>Journal of the American Chemical Society</i> , 2020, 142, 13709-13717.	6.6	44
41	Structural characterization of supramolecular hollow nanotubes with atomistic simulations and SAXS. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21083-21093.	1.3	14
42	Martini coarse-grained models of imidazolium-based ionic liquids: from nanostructural organization to liquid–liquid extraction. <i>Green Chemistry</i> , 2020, 22, 7376-7386.	4.6	45
43	Resolving Donor–Acceptor Interfaces and Charge Carrier Energy Levels of Organic Semiconductors with Polar Side Chains. <i>Advanced Functional Materials</i> , 2020, 30, 2004799.	7.8	28
44	Backmapping triangulated surfaces to coarse-grained membrane models. <i>Nature Communications</i> , 2020, 11, 2296.	5.8	86
45	Localization Preference of Antimicrobial Peptides on Liquid-Disordered Membrane Domains. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 350.	1.8	25
46	Coupling Coarse-Grained to Fine-Grained Models via Hamiltonian Replica Exchange. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5313-5322.	2.3	9
47	Using Small-Angle Scattering and Contrast Matching to Understand Molecular Packing in Low Molecular Weight Gels. <i>Matter</i> , 2020, 2, 764-778.	5.0	49
48	Capturing Choline–Aromatic Cation– π Interactions in the MARTINI Force Field. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2550-2560.	2.3	35
49	Charge-dependent interactions of monomeric and filamentous actin with lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5861-5872.	3.3	35
50	Unidirectional rotating molecular motors dynamically interact with adsorbed proteins to direct the fate of mesenchymal stem cells. <i>Science Advances</i> , 2020, 6, eaay2756.	4.7	42
51	Membrane mediated toppling mechanism of the folate energy coupling factor transporter. <i>Nature Communications</i> , 2020, 11, 1763.	5.8	21
52	Dual Resolution Membrane Simulations Using Virtual Sites. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3944-3953.	1.2	21
53	Molecular dynamics simulations in photosynthesis. <i>Photosynthesis Research</i> , 2020, 144, 273-295.	1.6	50
54	Molecular mechanism for bidirectional regulation of CD44 for lipid raft affiliation by palmitoylations and PIP2. <i>PLoS Computational Biology</i> , 2020, 16, e1007777.	1.5	22

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55	A molecular view on the escape of lipoplexed DNA from the endosome. <i>ELife</i> , 2020, 9, .	2.8	46
56	Two distinct anionic phospholipid-dependent events involved in SecA-mediated protein translocation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183035.	1.4	16
57	A Multi-Scale Approach to Membrane Remodeling Processes. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 59.	1.6	19
58	Binding of quinazolinones to c-KIT G-quadruplex; an interplay between hydrogen bonding and π - π stacking. <i>Biophysical Chemistry</i> , 2019, 253, 106220.	1.5	11
59	Gangliosides Destabilize Lipid Phase Separation in Multicomponent Membranes. <i>Biophysical Journal</i> , 2019, 117, 1215-1223.	0.2	9
60	Serine Phosphorylation of L-Selectin Regulates ERM Binding, Clustering, and Monocyte Protrusion in Transendothelial Migration. <i>Frontiers in Immunology</i> , 2019, 10, 2227.	2.2	6
61	A Practical View of the Martini Force Field. <i>Methods in Molecular Biology</i> , 2019, 2022, 105-127.	0.4	38
62	Pitfalls of the Martini Model. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5448-5460.	2.3	159
63	SWINGER: a clustering algorithm for concurrent coupling of atomistic and supramolecular liquids. <i>Interface Focus</i> , 2019, 9, 20180075.	1.5	11
64	Nucleation Mechanisms of Self-Assembled Physisorbed Monolayers on Graphite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17510-17520.	1.5	15
65	Chromophore arrangement in light-harvesting complex II influenced by the protein dynamics on the microsecond time scale. <i>EPJ Web of Conferences</i> , 2019, 205, 09039.	0.1	0
66	Ceramides bind VDAC2 to trigger mitochondrial apoptosis. <i>Nature Communications</i> , 2019, 10, 1832.	5.8	144
67	Lipid Fingerprints and Cofactor Dynamics of Light-Harvesting Complex II in Different Membranes. <i>Biophysical Journal</i> , 2019, 116, 1446-1455.	0.2	31
68	Emerging Diversity in Lipid-Protein Interactions. <i>Chemical Reviews</i> , 2019, 119, 5775-5848.	23.0	299
69	An Allosteric Pathway in Copper, Zinc Superoxide Dismutase Unravels the Molecular Mechanism of the G93A Amyotrophic Lateral Sclerosis-Linked Mutation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7740-7744.	2.1	49
70	Computational Modeling of Realistic Cell Membranes. <i>Chemical Reviews</i> , 2019, 119, 6184-6226.	23.0	502
71	Adaption to glucose limitation is modulated by the pleiotropic regulator CcpA, independent of selection pressure strength. <i>BMC Evolutionary Biology</i> , 2019, 19, 15.	3.2	19
72	The N-terminal amphipathic helix of Pex11p self-interacts to induce membrane remodelling during peroxisome fission. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1292-1300.	1.4	28

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73	Molecular simulations of self-assembling bio-inspired supramolecular systems and their connection to experiments. <i>Chemical Society Reviews</i> , 2018, 47, 3470-3489.	18.7	119
74	Multiscale Simulation of Protein Hydration Using the SWINGER Dynamical Clustering Algorithm. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1754-1761.	2.3	19
75	Structural insights into K48-linked ubiquitin chain formation by the Pex4p-Pex22p complex. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 562-567.	1.0	6
76	Energetics Underlying Twist Polymorphisms in Amyloid Fibrils. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1081-1091.	1.2	44
77	Enhancing Molecular nâ€“Type Doping of Donorâ€“Acceptor Copolymers by Tailoring Side Chains. <i>Advanced Materials</i> , 2018, 30, 1704630.	11.1	217
78	Molecular Dynamics of the Association of L-Selectin and FERM Regulated by PIP2. <i>Biophysical Journal</i> , 2018, 114, 1858-1868.	0.2	33
79	Role of Charge and Hydrophobicity in Lipotide Formation: A Molecular Dynamics Study with Experimental Constraints. <i>ChemBioChem</i> , 2018, 19, 263-271.	1.3	11
80	Understanding Conformational Dynamics of Complex Lipid Mixtures Relevant to Biology. <i>Journal of Membrane Biology</i> , 2018, 251, 609-631.	1.0	33
81	Cholesterol Flip-Flop Impacts Domain Registration in Plasma Membrane Models. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5527-5533.	2.1	36
82	Transferable MARTINI Model of Poly(ethylene Oxide). <i>Journal of Physical Chemistry B</i> , 2018, 122, 7436-7449.	1.2	99
83	Molecular Mechanism of Lipid Nanodisk Formation by Styrene-Maleic Acid Copolymers. <i>Biophysical Journal</i> , 2018, 115, 494-502.	0.2	64
84	Fluorinated Alcoholsâ€™ Effects on Lipid Bilayer Properties. <i>Biophysical Journal</i> , 2018, 115, 679-689.	0.2	23
85	Lipidâ€™Protein Interactions Are Unique Fingerprints for Membrane Proteins. <i>ACS Central Science</i> , 2018, 4, 709-717.	5.3	274
86	Curvatureâ€“Induced Sorting of Lipids in Plasma Membrane Tethers. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800034.	1.3	54
87	High-Throughput Simulations Reveal Membrane-Mediated Effects of Alcohols on MscL Gating. <i>Journal of the American Chemical Society</i> , 2017, 139, 2664-2671.	6.6	41
88	Bulk Heterojunction Morphologies with Atomistic Resolution from Coarse-Grain Solvent Evaporation Simulations. <i>Journal of the American Chemical Society</i> , 2017, 139, 3697-3705.	6.6	133
89	Design and Properties of Genetically Encoded Probes for Sensing Macromolecular Crowding. <i>Biophysical Journal</i> , 2017, 112, 1929-1939.	0.2	61
90	Exchange pathways of plastoquinone and plastoquinol in the photosystem II complex. <i>Nature Communications</i> , 2017, 8, 15214.	5.8	71

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91	Martini Coarse-Grained Force Field: Extension to RNA. <i>Biophysical Journal</i> , 2017, 113, 246-256.	0.2	156
92	Insight into the complete substrate-binding pocket of ThiT by chemical and genetic mutations. <i>MedChemComm</i> , 2017, 8, 1121-1130.	3.5	16
93	Lipid-Protein Interactions are Unique Fingerprints for Membrane Proteins. <i>Biophysical Journal</i> , 2017, 112, 84a.	0.2	2
94	Stability and dynamics of membrane-spanning DNA nanopores. <i>Nature Communications</i> , 2017, 8, 14784.	5.8	61
95	Lipid and Peptide Diffusion in Bilayers: The Saffman-DeGroot Model and Periodic Boundary Conditions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3443-3457.	1.2	91
96	Enhancing doping efficiency by improving host-dopant miscibility for fullerene-based n-type thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21234-21241.	5.2	73
97	Structural and Spectroscopic Properties of Assemblies of Self-Replicating Peptide Macrocycles. <i>ACS Nano</i> , 2017, 11, 7858-7868.	7.3	36
98	cgHeliParm: analysis of dsDNA helical parameters for coarse-grained MARTINI molecular dynamics simulations. <i>Bioinformatics</i> , 2017, 33, 3813-3815.	1.8	3
99	CHARMM-GUI Martini Maker for modeling and simulation of complex bacterial membranes with lipopolysaccharides. <i>Journal of Computational Chemistry</i> , 2017, 38, 2354-2363.	1.5	150
100	Computational Lipidomics of the Neuronal Plasma Membrane. <i>Biophysical Journal</i> , 2017, 113, 2271-2280.	0.2	197
101	Ganglioside-Lipid and Ganglioside-Protein Interactions Revealed by Coarse-Grained and Atomistic Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3262-3275.	1.2	81
102	Molecular Dynamics of Photosystem II Embedded in the Thylakoid Membrane. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3237-3249.	1.2	34
103	Prediction of Thylakoid Lipid Binding Sites on Photosystem II. <i>Biophysical Journal</i> , 2017, 113, 2669-2681.	0.2	37
104	Alcohol Interactions with Lipid Bilayers. <i>Molecules</i> , 2017, 22, 2078.	1.7	28
105	Lipid phase separation in the presence of hydrocarbons in giant unilamellar vesicles. <i>AIMS Biophysics</i> , 2017, 4, 528-542.	0.3	5
106	An Amphotericin B Derivative Equally Potent to Amphotericin B and with Increased Safety. <i>PLoS ONE</i> , 2016, 11, e0162171.	1.1	29
107	Adaptive Resolution Simulation of Supramolecular Water: The Concurrent Making, Breaking, and Remaking of Water Bundles. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4138-4145.	2.3	30
108	Adaptive resolution simulation of an atomistic DNA molecule in MARTINI salt solution. <i>European Physical Journal: Special Topics</i> , 2016, 225, 1595-1607.	1.2	25

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109	Coupled binding mechanism of three sodium ions and aspartate in the glutamate transporter homologue GltT _k . Nature Communications, 2016, 7, 13420.	5.8	93
110	Altered secondary structure of Dynorphin A associates with loss of opioid signalling and NMDA-mediated excitotoxicity in SCA23. Human Molecular Genetics, 2016, 25, ddw130.	1.4	9
111	Molecular mechanism of cardiolipin-mediated assembly of respiratory chain supercomplexes. Chemical Science, 2016, 7, 4435-4443.	3.7	80
112	Computational "microscopy" of cellular membranes. Journal of Cell Science, 2016, 129, 257-68.	1.2	119
113	Martini straight: Boosting performance using a shorter cutoff and GPUs. Computer Physics Communications, 2016, 199, 1-7.	3.0	352
114	From light-harvesting to photoprotection: structural basis of the dynamic switch of the major antenna complex of plants (LHCII). Scientific Reports, 2015, 5, 15661.	1.6	108
115	Parameters for Martini sterols and hopanoids based on a virtual-site description. Journal of Chemical Physics, 2015, 143, 243152.	1.2	125
116	Enantioselective Enzymes by Computational Design and In Silico Screening. Angewandte Chemie - International Edition, 2015, 54, 3726-3730.	7.2	119
117	MARTINI Coarse-Grained Model for Crystalline Cellulose Microfibers. Journal of Physical Chemistry B, 2015, 119, 465-473.	1.2	54
118	Ironing out Their Differences: Dissecting the Structural Determinants of a Phenylalanine Aminomutase and Ammonia Lyase. ACS Chemical Biology, 2015, 10, 989-997.	1.6	23
119	Lipid Organization of the Plasma Membrane. Biophysical Journal, 2015, 108, 358a.	0.2	7
120	Martini Coarse-Grained Force Field: Extension to DNA. Journal of Chemical Theory and Computation, 2015, 11, 3932-3945.	2.3	239
121	Atomistic and Coarse Grain Topologies for the Cofactors Associated with the Photosystem II Core Complex. Journal of Physical Chemistry B, 2015, 119, 7791-7803.	1.2	41
122	Characterization of thylakoid lipid membranes from cyanobacteria and higher plants by molecular dynamics simulations. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1319-1330.	1.4	120
123	Computational Lipidomics with <i>insane</i> : A Versatile Tool for Generating Custom Membranes for Molecular Simulations. Journal of Chemical Theory and Computation, 2015, 11, 2144-2155.	2.3	847
124	Benchmark of Schemes for Multiscale Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2015, 11, 1389-1398.	2.3	24
125	High-Throughput Simulations of Dimer and Trimer Assembly of Membrane Proteins. The DAFT Approach. Journal of Chemical Theory and Computation, 2015, 11, 2278-2291.	2.3	94
126	Adaptive resolution simulation of polarizable supramolecular coarse-grained water models. Journal of Chemical Physics, 2015, 142, 244118.	1.2	39

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127	CHARMM-GUI Martini Maker for Coarse-Grained Simulations with the Martini Force Field. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4486-4494.	2.3	340
128	Hsc70-4 Deforms Membranes to Promote Synaptic Protein Turnover by Endosomal Microautophagy. <i>Neuron</i> , 2015, 88, 735-748.	3.8	140
129	Intramolecular photostabilization via triplet-state quenching: design principles to make organic fluorophores "self-healing". <i>Faraday Discussions</i> , 2015, 184, 221-235.	1.6	31
130	Dry Martini, a Coarse-Grained Force Field for Lipid Membrane Simulations with Implicit Solvent. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 260-275.	2.3	236
131	Hydrophobic Compounds Reshape Membrane Domains. <i>PLoS Computational Biology</i> , 2014, 10, e1003873.	1.5	58
132	A conceptual modelling for combining potentials in both coarse grain and fine grain sugar molecules. , 2014, , .		1
133	Simulation of polyethylene glycol and calcium-mediated membrane fusion. <i>Journal of Chemical Physics</i> , 2014, 140, 124905.	1.2	44
134	Adaptive resolution simulation of an atomistic protein in MARTINI water. <i>Journal of Chemical Physics</i> , 2014, 140, 054114.	1.2	74
135	Computationally designed libraries for rapid enzyme stabilization. <i>Protein Engineering, Design and Selection</i> , 2014, 27, 49-58.	1.0	205
136	Mechanisms shaping cell membranes. <i>Current Opinion in Cell Biology</i> , 2014, 29, 53-60.	2.6	205
137	The power of coarse graining in biomolecular simulations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014, 4, 225-248.	6.2	423
138	Helfrich model of membrane bending: From Gibbs theory of liquid interfaces to membranes as thick anisotropic elastic layers. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 25-33.	7.0	77
139	Going Backward: A Flexible Geometric Approach to Reverse Transformation from Coarse Grained to Atomistic Models. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 676-690.	2.3	566
140	Establishing conditions for simulating hydrophobic solutes in electric fields by molecular dynamics. <i>Journal of Molecular Modeling</i> , 2014, 20, 2359.	0.8	2
141	Computational Library Design for Increasing Haloalkane Dehalogenase Stability. <i>ChemBioChem</i> , 2014, 15, 1660-1672.	1.3	68
142	Global structural changes of an ion channel during its gating are followed by ion mobility mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17170-17175.	3.3	63
143	Lipid Organization of the Plasma Membrane. <i>Journal of the American Chemical Society</i> , 2014, 136, 14554-14559.	6.6	734
144	Phytochemicals Perturb Membranes and Promiscuously Alter Protein Function. <i>ACS Chemical Biology</i> , 2014, 9, 1788-1798.	1.6	241

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145	Disaccharides Impact the Lateral Organization of Lipid Membranes. <i>Journal of the American Chemical Society</i> , 2014, 136, 16167-16175.	6.6	55
146	Computationally Efficient and Accurate Enantioselectivity Modeling by Clusters of Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 2079-2092.	2.5	44
147	The activation mode of the mechanosensitive ion channel, MscL, by lysophosphatidylcholine differs from tension-induced gating. <i>FASEB Journal</i> , 2014, 28, 4292-4302.	0.2	42
148	Adaptive Resolution Simulation of MARTINI Solvents. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2591-2598.	2.3	46
149	Perspective on the Martini model. <i>Chemical Society Reviews</i> , 2013, 42, 6801.	18.7	1,008
150	Defined lipid analogues induce transient channels to facilitate drug-membrane traversal and circumvent cancer therapy resistance. <i>Scientific Reports</i> , 2013, 3, 1949.	1.6	22
151	Interbilayer repulsion forces between tension-free lipid bilayers from simulation. <i>Soft Matter</i> , 2013, 9, 10705.	1.2	22
152	Coarse-grain modelling of protein-protein interactions. <i>Current Opinion in Structural Biology</i> , 2013, 23, 878-886.	2.6	124
153	Identification of cardiolipin binding sites on cytochrome c oxidase at the entrance of proton channels. <i>Scientific Reports</i> , 2013, 3, 1263.	1.6	130
154	The Martini Coarse-Grained Force Field. <i>Methods in Molecular Biology</i> , 2013, 924, 533-565.	0.4	107
155	Improved Parameters for the Martini Coarse-Grained Protein Force Field. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 687-697.	2.3	1,181
156	Mixing MARTINI: Electrostatic Coupling in Hybrid Atomistic-Coarse-Grained Biomolecular Simulations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3516-3530.	1.2	145
157	Martini Force Field Parameters for Glycolipids. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1694-1708.	2.3	166
158	Semiconducting Single-Walled Carbon Nanotubes on Demand by Polymer Wrapping. <i>Advanced Materials</i> , 2013, 25, 2948-2956.	11.1	177
159	Improved Angle Potentials for Coarse-Grained Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3282-3292.	2.3	67
160	Vibrational Spectra of a Mechanosensitive Channel. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 448-452.	2.1	22
161	Computational microscopy of cyclodextrin mediated cholesterol extraction from lipid model membranes. <i>Scientific Reports</i> , 2013, 3, 2071.	1.6	101
162	MARTINI Model for Physisorption of Organic Molecules on Graphite. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15623-15631.	1.5	39

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