

Siewert-Jan Marrink

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290
papers

32,667
citations

88
h-index

177
g-index

319
ext. papers

38,101
ext. citations

7.2
avg, IF

7.57
L-index

#	Paper	IF	Citations
290	The MARTINI force field: coarse grained model for biomolecular simulations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 7812-24	3.4	3596
289	Coarse Grained Model for Semiquantitative Lipid Simulations. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 750-760	3.4	1767
288	The MARTINI Coarse-Grained Force Field: Extension to Proteins. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 819-34	6.4	1717
287	Perspective on the Martini model. <i>Chemical Society Reviews</i> , 2013 , 42, 6801-22	58.5	805
286	Improved Parameters for the Martini Coarse-Grained Protein Force Field. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 687-97	6.4	782
285	Simulation of water transport through a lipid membrane. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 4155-4168		683
284	A computer perspective of membranes: molecular dynamics studies of lipid bilayer systems. <i>BBA - Biomembranes</i> , 1997 , 1331, 235-70		622
283	Polarizable water model for the coarse-grained MARTINI force field. <i>PLoS Computational Biology</i> , 2010 , 6, e1000810	5	587
282	Lipid organization of the plasma membrane. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14554-56.4	26.4	519
281	Computational Lipidomics with insane: A Versatile Tool for Generating Custom Membranes for Molecular Simulations. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2144-55	6.4	504
280	The molecular face of lipid rafts in model membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17367-72	11.5	416
279	Combining an Elastic Network With a Coarse-Grained Molecular Force Field: Structure, Dynamics, and Intermolecular Recognition. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 2531-43	6.4	397
278	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, 676-90	6.4	378
277	Antimicrobial peptides in action. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12156-61	16.4	372
276	Toroidal pores formed by antimicrobial peptides show significant disorder. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 2308-17	3.8	364
275	Lipids on the move: simulations of membrane pores, domains, stalks and curves. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 149-68	3.8	363
274	Simulation of pore formation in lipid bilayers by mechanical stress and electric fields. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6382-3	16.4	363

273	Permeation Process of Small Molecules across Lipid Membranes Studied by Molecular Dynamics Simulations. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16729-16738		358
272	A molecular dynamics study of the decane/water interface. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 9206-9212		354
271	The power of coarse graining in biomolecular simulations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 225-248	7.9	346
270	Methodological Issues in Lipid Bilayer Simulations. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9424-9433	3.4	314
269	Martini Coarse-Grained Force Field: Extension to Carbohydrates. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 3195-210	6.4	302
268	A coarse-grained model for polyethylene oxide and polyethylene glycol: conformation and hydrodynamics. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13186-94	3.4	298
267	The mechanism of vesicle fusion as revealed by molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11144-5	16.4	278
266	G protein-coupled receptors self-assemble in dynamics simulations of model bilayers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10126-32	16.4	275
265	Computational Modeling of Realistic Cell Membranes. <i>Chemical Reviews</i> , 2019 , 119, 6184-6226	68.1	265
264	Molecular dynamics simulation of the formation, structure, and dynamics of small phospholipid vesicles. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15233-42	16.4	263
263	Simulation of gel phase formation and melting in lipid bilayers using a coarse grained model. <i>Chemistry and Physics of Lipids</i> , 2005 , 135, 223-44	3.7	261
262	Molecular dynamics simulations of hydrophilic pores in lipid bilayers. <i>Biophysical Journal</i> , 2004 , 86, 2156-64	6.4	248
261	Molecular Dynamics Simulation of the Kinetics of Spontaneous Micelle Formation. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 12165-12173	3.4	248
260	Molecular dynamics simulation of a phospholipid membrane. <i>European Biophysics Journal</i> , 1994 , 22, 423-36	3.6	248
259	Effect of Undulations on Surface Tension in Simulated Bilayers. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 6122-6127	3.4	237
258	The molecular mechanism of lipid monolayer collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10803-8	11.5	223
257	Simulation of the spontaneous aggregation of phospholipids into bilayers. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8638-9	16.4	223
256	Molecular view of cholesterol flip-flop and chemical potential in different membrane environments. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12714-20	16.4	222

255	Martini straight: Boosting performance using a shorter cutoff and GPUs. <i>Computer Physics Communications</i> , 2016 , 199, 1-7	4.2	221
254	Lipid packing drives the segregation of transmembrane helices into disordered lipid domains in model membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1343-8	11.5	193
253	Lipids out of equilibrium: energetics of desorption and pore mediated flip-flop. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12462-7	16.4	187
252	Phytochemicals perturb membranes and promiscuously alter protein function. <i>ACS Chemical Biology</i> , 2014 , 9, 1788-98	4.9	184
251	CHARMM-GUI Martini Maker for Coarse-Grained Simulations with the Martini Force Field. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4486-94	6.4	181
250	Dry Martini, a coarse-grained force field for lipid membrane simulations with implicit solvent. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 260-75	6.4	181
249	Structural determinants of the supramolecular organization of G protein-coupled receptors in bilayers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10959-65	16.4	181
248	Adhesion forces of lipids in a phospholipid membrane studied by molecular dynamics simulations. <i>Biophysical Journal</i> , 1998 , 74, 931-43	2.9	181
247	Cholesterol shows preference for the interior of polyunsaturated lipid membranes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10-1	16.4	179
246	Molecular view of hexagonal phase formation in phospholipid membranes. <i>Biophysical Journal</i> , 2004 , 87, 3894-900	2.9	167
245	Computationally designed libraries for rapid enzyme stabilization. <i>Protein Engineering, Design and Selection</i> , 2014 , 27, 49-58	1.9	164
244	Emerging Diversity in Lipid-Protein Interactions. <i>Chemical Reviews</i> , 2019 , 119, 5775-5848	68.1	163
243	Enhancing Molecular n-Type Doping of Donor-Acceptor Copolymers by Tailoring Side Chains. <i>Advanced Materials</i> , 2018 , 30, 1704630	24	157
242	Efficient Algorithms for Langevin and DPD Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3637-49	6.4	157
241	Martini Coarse-Grained Force Field: Extension to DNA. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3932-45	6.4	156
240	3D pressure field in lipid membranes and membrane-protein complexes. <i>Physical Review Letters</i> , 2009 , 102, 078101	7.4	156
239	Molecular dynamics simulation of a membrane/water interface: the ordering of water and its relation to the hydration force. <i>Langmuir</i> , 1993 , 9, 3122-3131	4	156
238	Mechanisms shaping cell membranes. <i>Current Opinion in Cell Biology</i> , 2014 , 29, 53-60	9	154

237	Hybrid simulations: combining atomistic and coarse-grained force fields using virtual sites. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10437-48	3.6	153
236	Semiconducting single-walled carbon nanotubes on demand by polymer wrapping. <i>Advanced Materials</i> , 2013 , 25, 2948-56	24	152
235	Molecular dynamics simulation of the spontaneous formation of a small DPPC vesicle in water in atomistic detail. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4488-9	16.4	150
234	Molecular structure of the lecithin ripple phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5392-6	11.5	146
233	Alternative mechanisms for the interaction of the cell-penetrating peptides penetratin and the TAT peptide with lipid bilayers. <i>Biophysical Journal</i> , 2009 , 97, 40-9	2.9	143
232	Curvature effects on lipid packing and dynamics in liposomes revealed by coarse grained molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2056-67	3.6	140
231	Lipid-Protein Interactions Are Unique Fingerprints for Membrane Proteins. <i>ACS Central Science</i> , 2018 , 4, 709-717	16.8	139
230	Pressure-area isotherm of a lipid monolayer from molecular dynamics simulations. <i>Langmuir</i> , 2007 , 23, 12617-23	4	139
229	Molecular mechanism of cyclodextrin mediated cholesterol extraction. <i>PLoS Computational Biology</i> , 2011 , 7, e1002020	5	134
228	Proton transport across transient single-file water pores in a lipid membrane studied by molecular dynamics simulations. <i>Biophysical Journal</i> , 1996 , 71, 632-47	2.9	130
227	Martini Force Field Parameters for Glycolipids. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1694-708	6.4	127
226	Reconstruction of atomistic details from coarse-grained structures. <i>Journal of Computational Chemistry</i> , 2010 , 31, 1333-43	3.5	127
225	Evidence for cardiolipin binding sites on the membrane-exposed surface of the cytochrome bc1. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3112-20	16.4	126
224	Molecular dynamics simulations of lipid vesicle fusion in atomic detail. <i>Biophysical Journal</i> , 2007 , 92, 4254-61	12.5	125
223	Martini 3: a general purpose force field for coarse-grained molecular dynamics. <i>Nature Methods</i> , 2021 , 18, 382-388	21.6	124
222	Solvent-exposed tails as prestalk transition states for membrane fusion at low hydration. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6710-8	16.4	118
221	Mixing MARTINI: electrostatic coupling in hybrid atomistic-coarse-grained biomolecular simulations. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3516-30	3.4	117
220	Identification of cardiolipin binding sites on cytochrome c oxidase at the entrance of proton channels. <i>Scientific Reports</i> , 2013 , 3, 1263	4.9	112

219	Computational Lipidomics of the Neuronal Plasma Membrane. <i>Biophysical Journal</i> , 2017 , 113, 2271-2280.	2.9	112
218	Membrane poration by antimicrobial peptides combining atomistic and coarse-grained descriptions. <i>Faraday Discussions</i> , 2010 , 144, 431-43; discussion 445-81	3.6	112
217	Hsc70-4 Deforms Membranes to Promote Synaptic Protein Turnover by Endosomal Microautophagy. <i>Neuron</i> , 2015 , 88, 735-48	13.9	111
216	Coarse-grain modelling of protein-protein interactions. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 878-86	8.1	108
215	Sphere-to-rod transitions of nonionic surfactant micelles in aqueous solution modeled by molecular dynamics simulations. <i>Langmuir</i> , 2011 , 27, 14071-7	4	108
214	Molecular dynamics simulation of a charged biological membrane. <i>Journal of Chemical Physics</i> , 1996 , 104, 2713-2720	3.9	105
213	The Binary Mixing Behavior of Phospholipids in a Bilayer: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2454-2463	3.4	104
212	Transmembrane helices can induce domain formation in crowded model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 984-94	3.8	102
211	Simulation of domain formation in DLPC-DSPC mixed bilayers. <i>Langmuir</i> , 2004 , 20, 7686-93	4	100
210	Bulk Heterojunction Morphologies with Atomistic Resolution from Coarse-Grain Solvent Evaporation Simulations. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3697-3705	16.4	99
209	Release of content through mechano-sensitive gates in pressurized liposomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19856-60	11.5	99
208	Computational Microscopy of cellular membranes. <i>Journal of Cell Science</i> , 2016 , 129, 257-68	5.3	96
207	Mechanosensitive membrane channels in action. <i>Biophysical Journal</i> , 2008 , 94, 2994-3002	2.9	96
206	Characterization of thylakoid lipid membranes from cyanobacteria and higher plants by molecular dynamics simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 1319-30	3.8	94
205	Lipid-mediated interactions tune the association of glycophorin A helix and its disruptive mutants in membranes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12987-96	3.6	93
204	Comparison of thermodynamic properties of coarse-grained and atomic-level simulation models. <i>ChemPhysChem</i> , 2007 , 8, 452-61	3.2	92
203	Cholesterol in bilayers with PUFA chains: doping with DMPC or POPC results in sterol reorientation and membrane-domain formation. <i>Biochemistry</i> , 2010 , 49, 7485-93	3.2	90
202	Enantioselective enzymes by computational design and in silico screening. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3726-30	16.4	88

201	Pitfalls of the Martini Model. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5448-5460	6.4	87
200	Computational microscopy of cyclodextrin mediated cholesterol extraction from lipid model membranes. <i>Scientific Reports</i> , 2013 , 3, 2071	4.9	84
199	Areas of monounsaturated diacylphosphatidylcholines. <i>Biophysical Journal</i> , 2009 , 97, 1926-32	2.9	84
198	Parameters for Martini sterols and hopanoids based on a virtual-site description. <i>Journal of Chemical Physics</i> , 2015 , 143, 243152	3.9	82
197	Free volume properties of a simulated lipid membrane. <i>Journal of Chemical Physics</i> , 1996 , 104, 9090-9099	3.9	82
196	Ceramides bind VDAC2 to trigger mitochondrial apoptosis. <i>Nature Communications</i> , 2019 , 10, 1832	17.4	81
195	Does isoprene protect plant membranes from thermal shock? A molecular dynamics study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 198-206	3.8	81
194	Molecular dynamics simulations of mixed micelles modeling human bile. <i>Biochemistry</i> , 2002 , 41, 5375-82	3.2	81
193	Concerted diffusion of lipids in raft-like membranes. <i>Faraday Discussions</i> , 2010 , 144, 411-30; discussion 445-81	3.6	80
192	Ion transport across transmembrane pores. <i>Biophysical Journal</i> , 2007 , 92, 4209-15	2.9	80
191	The Martini coarse-grained force field. <i>Methods in Molecular Biology</i> , 2013 , 924, 533-65	1.4	79
190	From light-harvesting to photoprotection: structural basis of the dynamic switch of the major antenna complex of plants (LHCII). <i>Scientific Reports</i> , 2015 , 5, 15661	4.9	79
189	In silico study of full-length amyloid beta 1-42 tri- and penta-oligomers in solution. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 11710-9	3.4	79
188	Structure of spheroidal HDL particles revealed by combined atomistic and coarse-grained simulations. <i>Biophysical Journal</i> , 2008 , 94, 2306-19	2.9	76
187	Martini Coarse-Grained Force Field: Extension to RNA. <i>Biophysical Journal</i> , 2017 , 113, 246-256	2.9	74
186	High-Throughput Simulations of Dimer and Trimer Assembly of Membrane Proteins. The DAFT Approach. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2278-91	6.4	73
185	Molecular simulations of self-assembling bio-inspired supramolecular systems and their connection to experiments. <i>Chemical Society Reviews</i> , 2018 , 47, 3470-3489	58.5	72
184	Influence of hydrophobic mismatch and amino acid composition on the lateral diffusion of transmembrane peptides. <i>Biophysical Journal</i> , 2010 , 99, 1447-54	2.9	72

183	Partitioning of lipids at domain boundaries in model membranes. <i>Biophysical Journal</i> , 2010 , 99, L91-3	2.9	72
182	Molecular dynamics simulation of spontaneous membrane fusion during a cubic-hexagonal phase transition. <i>Biophysical Journal</i> , 2002 , 83, 2386-92	2.9	72
181	Lipid and Peptide Diffusion in Bilayers: The Saffman-Delbrück Model and Periodic Boundary Conditions. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3443-3457	3.4	69
180	Coupled binding mechanism of three sodium ions and aspartate in the glutamate transporter homologue Glt. <i>Nature Communications</i> , 2016 , 7, 13420	17.4	69
179	Role of lipids in spheroidal high density lipoproteins. <i>PLoS Computational Biology</i> , 2010 , 6, e1000964	5	69
178	Gaussian curvature elasticity determined from global shape transformations and local stress distributions: a comparative study using the MARTINI model. <i>Faraday Discussions</i> , 2013 , 161, 365-82; discussion 419-59	3.6	68
177	Molecular view of the role of fusion peptides in promoting positive membrane curvature. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1543-52	16.4	67
176	Simulation of MscL gating in a bilayer under stress. <i>Biophysical Journal</i> , 2003 , 84, 2331-7	2.9	67
175	Adaptive resolution simulation of an atomistic protein in MARTINI water. <i>Journal of Chemical Physics</i> , 2014 , 140, 054114	3.9	66
174	The structural basis for peptide selection by the transport receptor OppA. <i>EMBO Journal</i> , 2009 , 28, 1332-40	1.4	66
173	Molecular view on protein sorting into liquid-ordered membrane domains mediated by gangliosides and lipid anchors. <i>Faraday Discussions</i> , 2013 , 161, 347-63; discussion 419-59	3.6	63
172	Protein-ligand binding with the coarse-grained Martini model. <i>Nature Communications</i> , 2020 , 11, 3714	17.4	63
171	Transferable MARTINI Model of Poly(ethylene Oxide). <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7436-7449	3.4	62
170	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	3.4	60
169	Comment on "On using a too large integration time step in molecular dynamics simulations of coarse-grained molecular models" by M. Winger, D. Trzesniak, R. Baron and W. F. van Gunsteren, <i>Phys. Chem. Chem. Phys.</i> , 2009, 11, 1934. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2254-6; author reply 2257-8	3.6	60
168	Gating motions in voltage-gated potassium channels revealed by coarse-grained molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3277-82	3.4	60
167	The molecular basis for antimicrobial activity of pore-forming cyclic peptides. <i>Biophysical Journal</i> , 2011 , 100, 2422-31	2.9	58
166	Molecular mechanism of cardiolipin-mediated assembly of respiratory chain supercomplexes. <i>Chemical Science</i> , 2016 , 7, 4435-4443	9.4	57

165	Rhodopsin forms a dimer with cytoplasmic helix 8 contacts in native membranes. <i>Biochemistry</i> , 2012 , 51, 1819-21	3.2	57
164	Effects of bundling on the properties of the SPC water model. <i>Theoretical Chemistry Accounts</i> , 2010 , 125, 335-344	1.9	57
163	Application of mean field boundary potentials in simulations of lipid vesicles. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7438-47	3.4	57
162	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	13	56
161	Antimicrobial Peptides Induce Growth of Phosphatidylglycerol Domains in a Model Bacterial Membrane. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3108-3111	6.4	56
160	Stability of asymmetric lipid bilayers assessed by molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15194-202	16.4	56
159	Membranes and water: an interesting relationship. <i>Faraday Discussions</i> , 1996 , 103, 191	3.6	55
158	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, 17170-5	11.5	54
157	Molecular structure of membrane tethers. <i>Biophysical Journal</i> , 2012 , 102, 1866-71	2.9	54
156	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	14.3	53
155	N-type organic thermoelectrics: demonstration of $ZT > 0.3$. <i>Nature Communications</i> , 2020 , 11, 5694	17.4	53
154	Computational library design for increasing haloalkane dehalogenase stability. <i>ChemBioChem</i> , 2014 , 15, 1660-72	3.8	52
153	Amylose folding under the influence of lipids. <i>Carbohydrate Research</i> , 2012 , 364, 1-7	2.9	52
152	Molecular dynamics simulation of a lipid diamond cubic phase. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12383-91	16.4	51
151	Line-tension controlled mechanism for influenza fusion. <i>PLoS ONE</i> , 2012 , 7, e38302	3.7	51
150	Lipid acrobatics in the membrane fusion arena. <i>Current Topics in Membranes</i> , 2011 , 68, 259-94	2.2	50
149	Dimerization of Amino Acid Side Chains: Lessons from the Comparison of Different Force Fields. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 1003-14	6.4	49
148	Simulation studies of pore and domain formation in a phospholipid monolayer. <i>Journal of Chemical Physics</i> , 2005 , 122, 024704	3.9	48

147	Exchange pathways of plastoquinone and plastoquinol in the photosystem II complex. <i>Nature Communications</i> , 2017 , 8, 15214	17.4	46
146	Lateral pressure profiles in lipid monolayers. <i>Faraday Discussions</i> , 2010 , 144, 393-409; discussion 445-81	3.6	46
145	Molecular Mechanism of Lipid Nanodisk Formation by Styrene-Maleic Acid Copolymers. <i>Biophysical Journal</i> , 2018 , 115, 494-502	2.9	45
144	Improved Angle Potentials for Coarse-Grained Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3282-92	6.4	45
143	Protein shape change has a major effect on the gating energy of a mechanosensitive channel. <i>Biophysical Journal</i> , 2011 , 100, 1651-9	2.9	45
142	Determining equilibrium constants for dimerization reactions from molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1919-28	3.5	45
141	Electrophoretic mobility does not always reflect the charge on an oil droplet. <i>Journal of Colloid and Interface Science</i> , 2008 , 318, 477-86	9.3	45
140	A single bicontinuous cubic phase induced by fusion peptides. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9166-7	16.4	44
139	Molecular dynamics of water transport through membranes: Water from solvent to solute. <i>Pure and Applied Chemistry</i> , 1993 , 65, 2513-2520	2.1	44
138	Structural basis for the enhanced activity of cyclic antimicrobial peptides: the case of BPC194. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 2197-205	3.8	43
137	Phase behavior of a phospholipid/fatty acid/water mixture studied in atomic detail. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2030-4	16.4	43
136	Hydrophobic compounds reshape membrane domains. <i>PLoS Computational Biology</i> , 2014 , 10, e1003873	5	42
135	Disaccharides impact the lateral organization of lipid membranes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16167-75	16.4	40
134	Adaptive resolution simulation of polarizable supramolecular coarse-grained water models. <i>Journal of Chemical Physics</i> , 2015 , 142, 244118	3.9	39
133	Adaptive Resolution Simulation of MARTINI Solvents. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2591-8	6.4	39
132	MARTINI coarse-grained model for crystalline cellulose microfibrils. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 465-73	3.4	39
131	Low density lipoprotein: structure, dynamics, and interactions of apoB-100 with lipids. <i>Soft Matter</i> , 2011 , 7, 8135	3.6	38
130	Structural investigation of MscL gating using experimental data and coarse grained MD simulations. <i>PLoS Computational Biology</i> , 2012 , 8, e1002683	5	37

129	Design and Properties of Genetically Encoded Probes for Sensing Macromolecular Crowding. <i>Biophysical Journal</i> , 2017 , 112, 1929-1939	2.9	36
128	Stability and dynamics of membrane-spanning DNA nanopores. <i>Nature Communications</i> , 2017 , 8, 14784	17.4	36
127	The activation mode of the mechanosensitive ion channel, MscL, by lysophosphatidylcholine differs from tension-induced gating. <i>FASEB Journal</i> , 2014 , 28, 4292-302	0.9	36
126	Simulation of polyethylene glycol and calcium-mediated membrane fusion. <i>Journal of Chemical Physics</i> , 2014 , 140, 124905	3.9	36
125	Curvature-dependent elastic properties of liquid-ordered domains result in inverted domain sorting on uniaxially compressed vesicles. <i>Physical Review Letters</i> , 2011 , 106, 148102	7.4	36
124	In silico design of robust bolalipid membranes. <i>Biomacromolecules</i> , 2012 , 13, 196-205	6.9	34
123	Protofibrillar Assembly Toward the Formation of Amyloid Fibrils. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2385-2390	6.4	34
122	Computationally efficient and accurate enantioselectivity modeling by clusters of molecular dynamics simulations. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2079-92	6.1	33
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