

Siewert-Jan Marrink

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Polyply; a python suite for facilitating simulations of macromolecules and nanomaterials.. <i>Nature Communications</i> , 2022 , 13, 68	17.4	3
289	Membrane thickness, lipid phase and sterol type are determining factors in the permeability of membranes to small solutes.. <i>Nature Communications</i> , 2022 , 13, 1605	17.4	4
288	Perspective: a stirring role for metabolism in cells.. <i>Molecular Systems Biology</i> , 2022 , 18, e10822	12.2	0
287	Martini 3 Coarse-Grained Force Field: Small Molecules. <i>Advanced Theory and Simulations</i> , 2022 , 5, 210039	15	8
286	Complex nanoemulsion for vitamin delivery: droplet organization and interaction with skin membranes.. <i>Nanoscale</i> , 2021 ,	7.7	1
285	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	8.3	1
284	Bottom-up fabrication of a proteasome-nanopore that unravels and processes single proteins. <i>Nature Chemistry</i> , 2021 , 13, 1192-1199	17.6	17
283	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	6.1	2
282	Comparing Dimerization Free Energies and Binding Modes of Small Aromatic Molecules with Different Force Fields. <i>Molecules</i> , 2021 , 26,	4.8	1
281	Perspectives on High-Throughput Ligand/Protein Docking With Martini MD Simulations. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 657222	5.6	8
280	Martini 3: a general purpose force field for coarse-grained molecular dynamics. <i>Nature Methods</i> , 2021 , 18, 382-388	21.6	124
279	Asymmetric CorA Gating Mechanism as Observed by Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 2407-2417	6.1	1
278	General Protocol for Constructing Molecular Models of Nanodiscs. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 2869-2883	6.1	1
277	The Martini Model in Materials Science. <i>Advanced Materials</i> , 2021 , 33, e2008635	24	19
276	Capturing Membrane Phase Separation by Dual Resolution Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 5876-5884	6.4	2
275	Semiprocessive Hyperglycosylation of Adhesin by Bacterial Protein -Glycosyltransferases. <i>ACS Chemical Biology</i> , 2021 , 16, 165-175	4.9	1
274	Coacervate formation studied by explicit solvent coarse-grain molecular dynamics with the Martini model. <i>Chemical Science</i> , 2021 , 12, 8521-8530	9.4	6

273	Biaryl sulfonamides as azosteres for photopharmacology. <i>Chemical Communications</i> , 2021 , 57, 4126-4129.	3.8	5
272	Fullerene derivatives with oligoethylene-glycol side chains: an investigation on the origin of their outstanding transport properties.. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 16217-16225	7.1	1
271	Thermostable D-amino acid decarboxylases derived from <i>Thermotoga maritima</i> diaminopimelate decarboxylase. <i>Protein Engineering, Design and Selection</i> , 2021 , 34,	1.9	1
270	A structural view onto disease-linked mutations in the human neutral amino acid exchanger ASCT1. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 5246-5254	6.8	0
269	Structure of the human signal peptidase complex reveals the determinants for signal peptide cleavage. <i>Molecular Cell</i> , 2021 , 81, 3934-3948.e11	17.6	10
268	Nonconverged Constraints Cause Artificial Temperature Gradients in Lipid Bilayer Simulations. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 9537-9546	3.4	4
267	Computational Redesign of an α -Transaminase from for Asymmetric Synthesis of Enantiopure Bulky Amines. <i>ACS Catalysis</i> , 2021 , 11, 10733-10747	13.1	5
266	Simulating realistic membrane shapes. <i>Current Opinion in Cell Biology</i> , 2021 , 71, 103-111	9	9
265	Protocol for Simulations of PEGylated Proteins with Martini 3. <i>Methods in Molecular Biology</i> , 2021 , 2199, 315-335	1.4	3
264	Backmapping triangulated surfaces to coarse-grained membrane models. <i>Nature Communications</i> , 2020 , 11, 2296	17.4	25
263	Localization Preference of Antimicrobial Peptides on Liquid-Disordered Membrane Domains. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 350	5.7	11
262	Coupling Coarse-Grained to Fine-Grained Models via Hamiltonian Replica Exchange. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 5313-5322	6.4	5
261	Using Small-Angle Scattering and Contrast Matching to Understand Molecular Packing in Low Molecular Weight Gels. <i>Matter</i> , 2020 , 2, 764-778	12.7	24
260	Capturing Choline-Aromatics Cation- π Interactions in the MARTINI Force Field. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 2550-2560	6.4	15
259	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	11.5	12
258	Unidirectional rotating molecular motors dynamically interact with adsorbed proteins to direct the fate of mesenchymal stem cells. <i>Science Advances</i> , 2020 , 6, eaay2756	14.3	28
257	Membrane mediated toppling mechanism of the folate energy coupling factor transporter. <i>Nature Communications</i> , 2020 , 11, 1763	17.4	8
256	Dual Resolution Membrane Simulations Using Virtual Sites. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3944-3953	3.4	8

255	A molecular view on the escape of lipoplexed DNA from the endosome. <i>ELife</i> , 2020 , 9,	8.9	15
254	Molecular versus Excitonic Disorder in Individual Artificial Light-Harvesting Systems. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18073-18085	16.4	4
253	Piezo1 Forms Specific, Functionally Important Interactions with Phosphoinositides and Cholesterol. <i>Biophysical Journal</i> , 2020 , 119, 1683-1697	2.9	24
252	Titrateable Martini model for constant pH simulations. <i>Journal of Chemical Physics</i> , 2020 , 153, 024118	3.9	20
251	Multiscale modeling of molecular structure and optical properties of complex supramolecular aggregates. <i>Chemical Science</i> , 2020 , 11, 11514-11524	9.4	8
250	Asymmetric Synthesis of Optically Pure Aliphatic Amines with an Engineered Robust α -Transaminase. <i>Catalysts</i> , 2020 , 10, 1310	4	3
249	N-type organic thermoelectrics: demonstration of ZT > 0.3. <i>Nature Communications</i> , 2020 , 11, 5694	17.4	53
248	Computational and Experimental Advances in Biomembranes: Resolving Their Complexity. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9975-9976	3.4	1
247	Protein-ligand binding with the coarse-grained Martini model. <i>Nature Communications</i> , 2020 , 11, 3714	17.4	63
246	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	16.4	17
245	Structural characterization of supramolecular hollow nanotubes with atomistic simulations and SAXS. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 21083-21093	3.6	4
244	Martini coarse-grained models of imidazolium-based ionic liquids: from nanostructural organization to liquid-liquid extraction. <i>Green Chemistry</i> , 2020 , 22, 7376-7386	10	17
243	Resolving Donor-Acceptor Interfaces and Charge Carrier Energy Levels of Organic Semiconductors with Polar Side Chains. <i>Advanced Functional Materials</i> , 2020 , 30, 2004799	15.6	14
242	Molecular dynamics simulations in photosynthesis. <i>Photosynthesis Research</i> , 2020 , 144, 273-295	3.7	25
241	Molecular mechanism for bidirectional regulation of CD44 for lipid raft affiliation by palmitoylations and PIP2. <i>PLoS Computational Biology</i> , 2020 , 16, e1007777	5	6
240	A Practical View of the Martini Force Field. <i>Methods in Molecular Biology</i> , 2019 , 2022, 105-127	1.4	21
239	Pitfalls of the Martini Model. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5448-5460	6.4	87
238	SWINGER: a clustering algorithm for concurrent coupling of atomistic and supramolecular liquids. <i>Interface Focus</i> , 2019 , 9, 20180075	3.9	5

237	Nucleation Mechanisms of Self-Assembled Physisorbed Monolayers on Graphite. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17510-17520	3.8	5
236	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	0.3	
235	Ceramides bind VDAC2 to trigger mitochondrial apoptosis. <i>Nature Communications</i> , 2019 , 10, 1832	17.4	81
234	Lipid Fingerprints and Cofactor Dynamics of Light-Harvesting Complex II in Different Membranes. <i>Biophysical Journal</i> , 2019 , 116, 1446-1455	2.9	14
233	Two distinct anionic phospholipid-dependent events involved in SecA-mediated protein translocation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 183035	3.8	8
232	A Multi-Scale Approach to Membrane Remodeling Processes. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 59	5.6	7
231	Binding of quinazolinones to c-KIT G-quadruplex; an interplay between hydrogen bonding and π stacking. <i>Biophysical Chemistry</i> , 2019 , 253, 106220	3.5	6
230	Gangliosides Destabilize Lipid Phase Separation in Multicomponent Membranes. <i>Biophysical Journal</i> , 2019 , 117, 1215-1223	2.9	5
229	Serine Phosphorylation of L-Selectin Regulates ERM Binding, Clustering, and Monocyte Protrusion in Transendothelial Migration. <i>Frontiers in Immunology</i> , 2019 , 10, 2227	8.4	2
228	Emerging Diversity in Lipid-Protein Interactions. <i>Chemical Reviews</i> , 2019 , 119, 5775-5848	68.1	163
227	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	6.4	20
226	Computational Modeling of Realistic Cell Membranes. <i>Chemical Reviews</i> , 2019 , 119, 6184-6226	68.1	265
225	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	10
224	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	3.8	17
223	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
222	Multiscale Simulation of Protein Hydration Using the SWINGER Dynamical Clustering Algorithm. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1754-1761	6.4	15
221	Structural insights into K48-linked ubiquitin chain formation by the Pex4p-Pex22p complex. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 496, 562-567	3.4	4
220	Energetics Underlying Twist Polymorphisms in Amyloid Fibrils. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1081-1091	3.4	31

219	Enhancing Molecular n-Type Doping of Donor-Acceptor Copolymers by Tailoring Side Chains. <i>Advanced Materials</i> , 2018 , 30, 1704630	24	157
218	Molecular Dynamics of the Association of L-Selectin and FERM Regulated by PIP2. <i>Biophysical Journal</i> , 2018 , 114, 1858-1868	2.9	17
217	Molecular Mechanism of Lipid Nanodisk Formation by Styrene-Maleic Acid Copolymers. <i>Biophysical Journal</i> , 2018 , 115, 494-502	2.9	45
216	Fluorinated Alcohols Effects on Lipid Bilayer Properties. <i>Biophysical Journal</i> , 2018 , 115, 679-689	2.9	15
215	Lipid-Protein Interactions Are Unique Fingerprints for Membrane Proteins. <i>ACS Central Science</i> , 2018 , 4, 709-717	16.8	139
214	Curvature-Induced Sorting of Lipids in Plasma Membrane Tethers. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1800034	3.5	28
213	Role of Charge and Hydrophobicity in Lipotide Formation: A Molecular Dynamics Study with Experimental Constraints. <i>ChemBioChem</i> , 2018 , 19, 263-271	3.8	7
212	Understanding Conformational Dynamics of Complex Lipid Mixtures Relevant to Biology. <i>Journal of Membrane Biology</i> , 2018 , 251, 609-631	2.3	26
211	Cholesterol Flip-Flop Impacts Domain Registration in Plasma Membrane Models. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5527-5533	6.4	28
210	Transferable MARTINI Model of Poly(ethylene Oxide). <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7436-7449	3.4	62
209	High-Throughput Simulations Reveal Membrane-Mediated Effects of Alcohols on MscL Gating. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2664-2671	16.4	24
208	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
207	Design and Properties of Genetically Encoded Probes for Sensing Macromolecular Crowding. <i>Biophysical Journal</i> , 2017 , 112, 1929-1939	2.9	36
206	Exchange pathways of plastoquinone and plastoquinol in the photosystem II complex. <i>Nature Communications</i> , 2017 , 8, 15214	17.4	46
205	Martini Coarse-Grained Force Field: Extension to RNA. <i>Biophysical Journal</i> , 2017 , 113, 246-256	2.9	74
204	Insight into the complete substrate-binding pocket of ThiT by chemical and genetic mutations. <i>MedChemComm</i> , 2017 , 8, 1121-1130	5	11
203	Lipid-Protein Interactions are Unique Fingerprints for Membrane Proteins. <i>Biophysical Journal</i> , 2017 , 112, 84a	2.9	2
202	Stability and dynamics of membrane-spanning DNA nanopores. <i>Nature Communications</i> , 2017 , 8, 14784	17.4	36

201	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
200	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
199	Structural and Spectroscopic Properties of Assemblies of Self-Replicating Peptide Macrocycles. <i>ACS Nano</i> , 2017 , 11, 7858-7868	16.7	30
198	cgHeliParm: analysis of dsDNA helical parameters for coarse-grained MARTINI molecular dynamics simulations. <i>Bioinformatics</i> , 2017 , 33, 3813-3815	7.2	1
197	Computational Lipidomics of the Neuronal Plasma Membrane. <i>Biophysical Journal</i> , 2017 , 113, 2271-2280	2.9	112
196	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
195	Molecular Dynamics of Photosystem II Embedded in the Thylakoid Membrane. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3237-3249	3.4	23
194	Prediction of Thylakoid Lipid Binding Sites on Photosystem II. <i>Biophysical Journal</i> , 2017 , 113, 2669-2681	2.9	21
193	Alcohol Interactions with Lipid Bilayers. <i>Molecules</i> , 2017 , 22,	4.8	21
192	Lipid phase separation in the presence of hydrocarbons in giant unilamellar vesicles. <i>AIMS Biophysics</i> , 2017 , 4, 528-542	0.8	3
191	Martini straight: Boosting performance using a shorter cutoff and GPUs. <i>Computer Physics Communications</i> , 2016 , 199, 1-7	4.2	221
190	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, 4138-45	6.4	26
189	Adaptive resolution simulation of an atomistic DNA molecule in MARTINI salt solution. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 1595-1607	2.3	22
188	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
187	Altered secondary structure of Dynorphin A associates with loss of opioid signalling and NMDA-mediated excitotoxicity in SCA23. <i>Human Molecular Genetics</i> , 2016 , 25, 2728-2737	5.6	7
186	Molecular mechanism of cardiolipin-mediated assembly of respiratory chain supercomplexes. <i>Chemical Science</i> , 2016 , 7, 4435-4443	9.4	57
185	Computational Microscopy of cellular membranes. <i>Journal of Cell Science</i> , 2016 , 129, 257-68	5.3	96
184	An Amphotericin B Derivative Equally Potent to Amphotericin B and with Increased Safety. <i>PLoS ONE</i> , 2016 , 11, e0162171	3.7	15

183	Ironing out their differences: dissecting the structural determinants of a phenylalanine aminomutase and ammonia lyase. <i>ACS Chemical Biology</i> , 2015 , 10, 989-97	4.9	21
182	Lipid Organization of the Plasma Membrane. <i>Biophysical Journal</i> , 2015 , 108, 358a	2.9	3
181	Martini Coarse-Grained Force Field: Extension to DNA. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3932-45	6.4	156
180	Atomistic and Coarse Grain Topologies for the Cofactors Associated with the Photosystem II Core Complex. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7791-803	3.4	27
179	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
178	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
177	Benchmark of Schemes for Multiscale Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 1389-98	6.4	21
176	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
175	Adaptive resolution simulation of polarizable supramolecular coarse-grained water models. <i>Journal of Chemical Physics</i> , 2015 , 142, 244118	3.9	39
174	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
173	Hsc70-4 Deforms Membranes to Promote Synaptic Protein Turnover by Endosomal Microautophagy. <i>Neuron</i> , 2015 , 88, 735-48	13.9	111
172	Intramolecular photostabilization via triplet-state quenching: design principles to make organic fluorophores "self-healing". <i>Faraday Discussions</i> , 2015 , 184, 221-35	3.6	22
171	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
170	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
169	Parameters for Martini sterols and hopanoids based on a virtual-site description. <i>Journal of Chemical Physics</i> , 2015 , 143, 243152	3.9	82
168	Enantioselective enzymes by computational design and in silico screening. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3726-30	16.4	88
167	MARTINI coarse-grained model for crystalline cellulose microfibrils. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 465-73	3.4	39
166	Enantioselective Enzymes by Computational Design and In Silico Screening. <i>Angewandte Chemie</i> , 2015 , 127, 3797-3801	3.6	17

165	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
164	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
163	Establishing conditions for simulating hydrophobic solutes in electric fields by molecular dynamics: effects of the long-range van der Waals treatment on the apparent particle mobility. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2359	2	2
162	Computational library design for increasing haloalkane dehalogenase stability. <i>ChemBioChem</i> , 2014 , 15, 1660-72	3.8	52
161	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
160	Lipid organization of the plasma membrane. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14554-96.4	16.4	519
159	Phytochemicals perturb membranes and promiscuously alter protein function. <i>ACS Chemical Biology</i> , 2014 , 9, 1788-98	4.9	184
158	Disaccharides impact the lateral organization of lipid membranes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16167-75	16.4	40
157	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
156	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
155	Adaptive Resolution Simulation of MARTINI Solvents. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2591-8	6.4	39
154	Hydrophobic compounds reshape membrane domains. <i>PLoS Computational Biology</i> , 2014 , 10, e1003873	5	42
153	Simulation of polyethylene glycol and calcium-mediated membrane fusion. <i>Journal of Chemical Physics</i> , 2014 , 140, 124905	3.9	36
152	Adaptive resolution simulation of an atomistic protein in MARTINI water. <i>Journal of Chemical Physics</i> , 2014 , 140, 054114	3.9	66
151	Computationally designed libraries for rapid enzyme stabilization. <i>Protein Engineering, Design and Selection</i> , 2014 , 27, 49-58	1.9	164
150	Mechanisms shaping cell membranes. <i>Current Opinion in Cell Biology</i> , 2014 , 29, 53-60	9	154
149	The power of coarse graining in biomolecular simulations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 225-248	7.9	346
148	Perspective on the Martini model. <i>Chemical Society Reviews</i> , 2013 , 42, 6801-22	58.5	805

147	Defined lipid analogues induce transient channels to facilitate drug-membrane traversal and circumvent cancer therapy resistance. <i>Scientific Reports</i> , 2013 , 3, 1949	4.9	18
146	Interbilayer repulsion forces between tension-free lipid bilayers from simulation. <i>Soft Matter</i> , 2013 , 9, 10705	3.6	16
145	Coarse-grain modelling of protein-protein interactions. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 878-86	8.1	108
144	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
143	The Martini coarse-grained force field. <i>Methods in Molecular Biology</i> , 2013 , 924, 533-65	1.4	79
142	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
141	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
140	Martini Force Field Parameters for Glycolipids. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1694-708	6.4	127
139	Semiconducting single-walled carbon nanotubes on demand by polymer wrapping. <i>Advanced Materials</i> , 2013 , 25, 2948-56	24	152
138	Improved Angle Potentials for Coarse-Grained Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3282-92	6.4	45
137	Vibrational Spectra of a Mechanosensitive Channel. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 448-526.4		22
136	Computational microscopy of cyclodextrin mediated cholesterol extraction from lipid model membranes. <i>Scientific Reports</i> , 2013 , 3, 2071	4.9	84
135	MARTINI Model for Physisorption of Organic Molecules on Graphite. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15623-15631	3.8	30
134	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
133	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
132	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
131	Anomalous viscosity effect in the early stages of the ion-assisted adhesion/fusion event between lipid bilayers: a theoretical and computational study. <i>Journal of Chemical Physics</i> , 2013 , 138, 234901	3.9	3
130	Dual action of BPC194: a membrane active peptide killing bacterial cells. <i>PLoS ONE</i> , 2013 , 8, e61541	3.7	13

129	Molecular plasticity regulates oligomerization and cytotoxicity of the multipепptide-length amyloid- β peptide pool. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36732-43	5.4	29
128	Rhodopsin forms a dimer with cytoplasmic helix 8 contacts in native membranes. <i>Biochemistry</i> , 2012 , 51, 1819-21	3.2	57
127	Efficient Algorithms for Langevin and DPD Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 3637-49	6.4	157
126	Transmembrane helices can induce domain formation in crowded model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 984-94	3.8	102
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