Emad Tajkhorshid

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.

275	27,001	67	161
papers	citations	h-index	g-index
335	31,490 ext. citations	7.7	6.96
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
275	Identification of Structural transitions in bacterial fatty acid binding proteins that permit ligand entry and exit at membranes <i>Journal of Biological Chemistry</i> , 2022 , 101676	5.4	4
274	Anthracycline derivatives inhibit cardiac CYP2J2 Journal of Inorganic Biochemistry, 2022, 229, 111722	4.2	O
273	Extended-ensemble docking to probe dynamic variation of ligand binding sites during large-scale structural changes of proteins <i>Chemical Science</i> , 2022 , 13, 4150-4169	9.4	3
272	Role of internal loop dynamics in antibiotic permeability of outer membrane porins <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	1
271	Rationalizing the generation of broad spectrum antibiotics with the addition of a positive charge <i>Chemical Science</i> , 2021 , 12, 15028-15044	9.4	3
270	PIP-dependent coupling of voltage sensor and pore domains in K7.2 channel. <i>Communications Biology</i> , 2021 , 4, 1189	6.7	O
269	Binding mode of SARS-CoV-2 fusion peptide to human cellular membrane. <i>Biophysical Journal</i> , 2021 , 120, 2914-2926	2.9	10
268	Structural insights into photosystem II assembly. <i>Nature Plants</i> , 2021 , 7, 524-538	11.5	31
267	Defining the Energetic Basis for a Conformational Switch Mediating Ligand-Independent Activation of Mutant Estrogen Receptors in Breast Cancer. <i>Molecular Cancer Research</i> , 2021 , 19, 1559-1570	6.6	1
266	Mechanical properties of ester- and ether-DPhPC bilayers: A molecular dynamics study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 117, 104386	4.1	O
265	Structural basis of complex formation between mitochondrial anion channel VDAC1 and Hexokinase-II. <i>Communications Biology</i> , 2021 , 4, 667	6.7	4
264	Conformational changes in the nucleotide-binding domains of P-glycoprotein induced by ATP hydrolysis. <i>FEBS Letters</i> , 2021 , 595, 735-749	3.8	4
263	Calmodulin complexes with brain and muscle creatine kinase peptides. <i>Current Research in Structural Biology</i> , 2021 , 3, 121-132	2.8	1
262	GOLEM: Automated and Robust Cryo-EM-Guided Ligand Docking with Explicit Water Molecules. <i>Biophysical Journal</i> , 2021 , 120, 290a	2.9	2
261	Glutamate transporters have a chloride channel with two hydrophobic gates. <i>Nature</i> , 2021 , 591, 327-33	1 50.4	13
260	Anti-inflammatory dopamine- and serotonin-based endocannabinoid epoxides reciprocally regulate cannabinoid receptors and the TRPV1 channel. <i>Nature Communications</i> , 2021 , 12, 926	17.4	3
259	Carbon dioxide transport across membranes. <i>Interface Focus</i> , 2021 , 11, 20200090	3.9	5

(2020-2021)

258	Amphiphilic Distyrylbenzene Derivatives as Potential Therapeutic and Imaging Agents for Soluble and Insoluble Amyloid [Aggregates in Alzheimer's Disease. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10462-10476	16.4	6
257	Molecular mechanism of capsid disassembly in hepatitis B virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
256	Cryo-EM structures of cytochrome reveal bound phospholipids and ubiquinone-8 in a dynamic substrate binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
255	Cation-Interactions and their Functional Roles in Membrane Proteins. <i>Journal of Molecular Biology</i> , 2021 , 433, 167035	6.5	6
254	Differential Interactions of Selected Phytocannabinoids with Human CYP2D6 Polymorphisms. <i>Biochemistry</i> , 2021 , 60, 2749-2760	3.2	1
253	Molecular mechanism of prestin electromotive signal amplification. <i>Cell</i> , 2021 , 184, 4669-4679.e13	56.2	10
252	CryoFold: Determining protein structures and data-guided ensembles from cryo-EM density maps. <i>Matter</i> , 2021 ,	12.7	2
251	Active participation of membrane lipids in inhibition of multidrug transporter P-glycoprotein. <i>Chemical Science</i> , 2021 , 12, 6293-6306	9.4	6
250	Assembly and Analysis of Cell-Scale Membrane Envelopes <i>Journal of Chemical Information and Modeling</i> , 2021 ,	6.1	2
249	An Allosteric Binding Site on Sortilin Regulates the Trafficking of VLDL, PCSK9, and LDLR in Hepatocytes. <i>Biochemistry</i> , 2020 , 59, 4321-4335	3.2	3
248	Twisting and tilting of a mechanosensitive molecular probe detects order in membranes. <i>Chemical Science</i> , 2020 , 11, 5637-5649	9.4	9
247	Al[1-42] tetramer and octamer structures reveal edge conductivity pores as a mechanism for membrane damage. <i>Nature Communications</i> , 2020 , 11, 3014	17.4	77
246	Identifying mutation hotspots reveals pathogenetic mechanisms of KCNQ2 epileptic encephalopathy. <i>Scientific Reports</i> , 2020 , 10, 4756	4.9	18
245	Aquaporin-7: A Dynamic Aquaglyceroporin With Greater Water and Glycerol Permeability Than Its Bacterial Homolog GlpF. <i>Frontiers in Physiology</i> , 2020 , 11, 728	4.6	13
244	Aberrant Expression of a Non-muscle RBFOX2 Isoform Triggers Cardiac Conduction Defects in Myotonic Dystrophy. <i>Developmental Cell</i> , 2020 , 52, 748-763.e6	10.2	13
243	Menthol Binding to the Human 42 Nicotinic Acetylcholine Receptor Facilitated by Its Strong Partitioning in the Membrane. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1866-1880	3.4	5
242	Molecular Insights into the Loading and Dynamics of Doxorubicin on PEGylated Graphene Oxide Nanocarriers. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1354-1363	4.1	26
241	Microscopic Characterization of GRP1 PH Domain Interaction with Anionic Membranes. <i>Journal of Computational Chemistry</i> , 2020 , 41, 489-499	3.5	16

240	Knockout of VDAC1 in H9c2 Cells Promotes Oxidative Stress-Induced Cell Apoptosis through Decreased Mitochondrial Hexokinase II Binding and Enhanced Glycolytic Stress. <i>Cellular Physiology and Biochemistry</i> , 2020 , 54, 853-874	3.9	2
239	A CLC-ec1 mutant reveals global conformational change and suggests a unifying mechanism for the CLC Cl/H transport cycle. <i>ELife</i> , 2020 , 9,	8.9	17
238	The structures of secretory and dimeric immunoglobulin A. <i>ELife</i> , 2020 , 9,	8.9	9
237	Structural basis for the reaction cycle of DASS dicarboxylate transporters. <i>ELife</i> , 2020 , 9,	8.9	18
236	Confronting pitfalls of AI-augmented molecular dynamics using statistical physics. <i>Journal of Chemical Physics</i> , 2020 , 153, 234118	3.9	4
235	Probing cholesterol binding and translocation in P-glycoprotein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183090	3.8	6
234	An Activity-Based Sensing Approach for the Detection of Cyclooxygenase-2 in Live Cells. <i>Angewandte Chemie</i> , 2020 , 132, 3333-3340	3.6	13
233	Cryo-EM structures of a lipid-sensitive pentameric ligand-gated ion channel embedded in a phosphatidylcholine-only bilayer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1788-1798	11.5	19
232	An Activity-Based Sensing Approach for the Detection of Cyclooxygenase-2 in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3307-3314	16.4	31
231	Computational Dissection of Membrane Transport at a Microscopic Level. <i>Trends in Biochemical Sciences</i> , 2020 , 45, 202-216	10.3	7
230	Structural and functional diversity calls for a new classification of ABC transporters. <i>FEBS Letters</i> , 2020 , 594, 3767-3775	3.8	66
229	Membrane surface recognition by the ASAP1 PH domain and consequences for interactions with the small GTPase Arf1. <i>Science Advances</i> , 2020 , 6,	14.3	7
228	Hydrogen-deuterium exchange mass spectrometry captures distinct dynamics upon substrate and inhibitor binding to a transporter. <i>Nature Communications</i> , 2020 , 11, 6162	17.4	15
227	Scalable molecular dynamics on CPU and GPU architectures with NAMD. <i>Journal of Chemical Physics</i> , 2020 , 153, 044130	3.9	483
226	Membrane Interactions of Cy3 and Cy5 Fluorophores and Their Effects on Membrane-Protein Dynamics. <i>Biophysical Journal</i> , 2020 , 119, 24-34	2.9	7
225	Parameterization of a drug molecule with a halogen Ehole particle using ffTK: Implementation, testing, and comparison. <i>Journal of Chemical Physics</i> , 2020 , 153, 164104	3.9	1
224	Boosting Free-Energy Perturbation Calculations with GPU-Accelerated NAMD. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 5301-5307	6.1	16
223	Polymer-Peptide Conjugates Convert Amyloid into Protein Nanobundles through Fragmentation and Lateral Association. <i>ACS Applied Nano Materials</i> , 2020 , 3, 937-945	5.6	7

(2018-2019)

222	A network of phosphatidylinositol 4,5-bisphosphate binding sites regulates gating of the Ca-activated Cl channel ANO1 (TMEM16A). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19952-19962	11.5	33
221	Multivalent Polymer-Peptide Conjugates-A General Platform for Inhibiting Amyloid Beta Peptide Aggregation. <i>ACS Macro Letters</i> , 2019 , 8, 1365-1371	6.6	8
220	Phosphatidic acid induces conformational changes in Sec18 protomers that prevent SNARE priming. <i>Journal of Biological Chemistry</i> , 2019 , 294, 3100-3116	5.4	13
219	Structural Insights into the Lipid A Transport Pathway in MsbA. <i>Structure</i> , 2019 , 27, 1114-1123.e3	5.2	13
218	Pro-Nifuroxazide Self-Assembly Leads to Triggerable Nanomedicine for Anti-cancer Therapy. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> , 11, 18074-18089	9.5	7
217	Serotonin transporter-ibogaine complexes illuminate mechanisms of inhibition and transport. <i>Nature</i> , 2019 , 569, 141-145	50.4	89
216	Characterization of Lipid-Protein Interactions and Lipid-Mediated Modulation of Membrane Protein Function through Molecular Simulation. <i>Chemical Reviews</i> , 2019 , 119, 6086-6161	68.1	80
215	Allosteric Interactions in Human Cytochrome P450 CYP3A4: The Role of Phenylalanine 213. <i>Biochemistry</i> , 2019 , 58, 1411-1422	3.2	12
214	A Chalcogen-Bonding Cascade Switch for Planarizable Push-Pull Probes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15752-15756	16.4	30
213	Binding partner- and force-promoted changes in E -catenin conformation probed by native cysteine labeling. <i>Scientific Reports</i> , 2019 , 9, 15375	4.9	5
212	Atoms to Phenotypes: Molecular Design Principles of Cellular Energy Metabolism. <i>Cell</i> , 2019 , 179, 1098	3- 5 6.121.	eø 3
212	Atoms to Phenotypes: Molecular Design Principles of Cellular Energy Metabolism. <i>Cell</i> , 2019 , 179, 1098 A small-molecule competitive inhibitor of phosphatidic acid binding by the AAA+ protein NSF/Sec18 blocks the SNARE-priming stage of vacuole fusion. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17168-17185	3- 56.121. 5-4	e Ø3
	A small-molecule competitive inhibitor of phosphatidic acid binding by the AAA+ protein NSF/Sec18 blocks the SNARE-priming stage of vacuole fusion. <i>Journal of Biological Chemistry</i> , 2019 ,		,
211	A small-molecule competitive inhibitor of phosphatidic acid binding by the AAA+ protein NSF/Sec18 blocks the SNARE-priming stage of vacuole fusion. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17168-17185 A Chalcogen-Bonding Cascade Switch for Planarizable PushPull Probes. <i>Angewandte Chemie</i> , 2019 ,	5.4	2
211	A small-molecule competitive inhibitor of phosphatidic acid binding by the AAA+ protein NSF/Sec18 blocks the SNARE-priming stage of vacuole fusion. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17168-17185 A Chalcogen-Bonding Cascade Switch for Planarizable PushPull Probes. <i>Angewandte Chemie</i> , 2019 , 131, 15899-15903 Locking Two Rigid-body Bundles in an Outward-Facing Conformation: The Ion-coupling Mechanism	5·4 3.6	2
211 210 209	A small-molecule competitive inhibitor of phosphatidic acid binding by the AAA+ protein NSF/Sec18 blocks the SNARE-priming stage of vacuole fusion. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17168-17185 A Chalcogen-Bonding Cascade Switch for Planarizable PushPull Probes. <i>Angewandte Chemie</i> , 2019 , 131, 15899-15903 Locking Two Rigid-body Bundles in an Outward-Facing Conformation: The Ion-coupling Mechanism in a LeuT-fold Transporter. <i>Scientific Reports</i> , 2019 , 9, 19479 Integrating hydrogen-deuterium exchange mass spectrometry with molecular dynamics simulations to probe lipid-modulated conformational changes in membrane proteins. <i>Nature</i>	5.4 3.6 4.9	2 12 6
211 210 209 208	A small-molecule competitive inhibitor of phosphatidic acid binding by the AAA+ protein NSF/Sec18 blocks the SNARE-priming stage of vacuole fusion. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17168-17185 A Chalcogen-Bonding Cascade Switch for Planarizable Push Pull Probes. <i>Angewandte Chemie</i> , 2019 , 131, 15899-15903 Locking Two Rigid-body Bundles in an Outward-Facing Conformation: The Ion-coupling Mechanism in a LeuT-fold Transporter. <i>Scientific Reports</i> , 2019 , 9, 19479 Integrating hydrogen-deuterium exchange mass spectrometry with molecular dynamics simulations to probe lipid-modulated conformational changes in membrane proteins. <i>Nature Protocols</i> , 2019 , 14, 3183-3204 Tuning symmetry breaking charge separation in perylene bichromophores by conformational	5.4 3.6 4.9	2 12 6

204	A "cross-stitched" peptide with improved helicity and proteolytic stability. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 3702-3706	3.9	19
203	Cytochrome aa Oxygen Reductase Utilizes the Tunnel Observed in the Crystal Structures To Deliver O for Catalysis. <i>Biochemistry</i> , 2018 , 57, 2150-2161	3.2	3
202	Sensitivity of peripheral membrane proteins to the membrane context: A case study of phosphatidylserine and the TIM proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 21	2 6 -213	3 ⁸
201	Reconstitution and substrate specificity for isopentenyl pyrophosphate of the antiviral radical SAM enzyme viperin. <i>Journal of Biological Chemistry</i> , 2018 , 293, 14122-14133	5.4	8
200	Microscopic view of lipids and their diverse biological functions. <i>Current Opinion in Structural Biology</i> , 2018 , 51, 177-186	8.1	17
199	Probing key elements of teixobactin-lipid II interactions in membranes. <i>Chemical Science</i> , 2018 , 9, 6997	-7 9 148	15
198	Electrostatic lock in the transport cycle of the multidrug resistance transporter EmrE. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7502-E7511	11.5	21
197	Constructing atomic structural models into cryo-EM densities using molecular dynamics - Pros and cons. <i>Journal of Structural Biology</i> , 2018 , 204, 319-328	3.4	6
196	Bacterial denitrifying nitric oxide reductases and aerobic respiratory terminal oxidases use similar delivery pathways for their molecular substrates. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 712-724	4.6	9
195	Menthol Stereoisomers Exhibit Different Effects on 🛭 nAChR Upregulation and Dopamine Neuron Spontaneous Firing. <i>ENeuro</i> , 2018 , 5,	3.9	9
194	The SERM/SERD bazedoxifene disrupts ESR1 helix 12 to overcome acquired hormone resistance in breast cancer cells. <i>ELife</i> , 2018 , 7,	8.9	42
193	Salt bridges gate Etatenin activation at intercellular junctions. <i>Molecular Biology of the Cell</i> , 2018 , 29, 111-122	3.5	12
192	Drug-Drug Interactions between Atorvastatin and Dronedarone Mediated by Monomeric CYP3A4. <i>Biochemistry</i> , 2018 , 57, 805-816	3.2	16
191	Calcium-Induced Lipid Nanocluster Structures: Sculpturing of the Plasma Membrane. <i>Biochemistry</i> , 2018 , 57, 6897-6905	3.2	9
190	Main-chain mutagenesis reveals intrahelical coupling in an ion channel voltage-sensor. <i>Nature Communications</i> , 2018 , 9, 5055	17.4	8
189	Endocannabinoid Virodhamine Is an Endogenous Inhibitor of Human Cardiovascular CYP2J2 Epoxygenase. <i>Biochemistry</i> , 2018 , 57, 6489-6499	3.2	11
188	Direct protein-lipid interactions shape the conformational landscape of secondary transporters. <i>Nature Communications</i> , 2018 , 9, 4151	17.4	70
187	Selective Permeability of Carboxysome Shell Pores to Anionic Molecules. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9110-9118	3.4	32

(2016-2017)

186	Structural basis of co-translational quality control by ArfA and RF2 bound to ribosome. <i>Nature</i> , 2017 , 541, 554-557	50.4	26
185	Mass spectrometry-based cross-linking study shows that the Psb28 protein binds to cytochrome in Photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2224-2229	11.5	25
184	A membrane-embedded pathway delivers general anesthetics to two interacting binding sites in the ion channel. <i>Journal of Biological Chemistry</i> , 2017 , 292, 9480-9492	5.4	15
183	Tribute to Klaus Schulten. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3203-3205	3.4	
182	Dimeric structure of the uracil:proton symporter UraA provides mechanistic insights into the SLC4/23/26 transporters. <i>Cell Research</i> , 2017 , 27, 1020-1033	24.7	59
181	Extension of the Highly Mobile Membrane Mimetic to Transmembrane Systems through Customized in Silico Solvents. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3764-3776	3.4	13
180	Energy transduction and alternating access of the mammalian ABC transporter P-glycoprotein. <i>Nature</i> , 2017 , 543, 738-741	50.4	141
179	Differential Membrane Binding Mechanics of Synaptotagmin Isoforms Observed in Atomic Detail. <i>Biochemistry</i> , 2017 , 56, 281-293	3.2	27
178	Chasing the open-state structure of pentameric ligand-gated ion channels. <i>Journal of General Physiology</i> , 2017 , 149, 1119-1138	3.4	25
177	Lipid specificity of the membrane binding domain of coagulation factor X. <i>Journal of Thrombosis and Haemostasis</i> , 2017 , 15, 2005-2016	15.4	17
176	Activation and Desensitization Mechanism of AMPA Receptor-TARP Complex by Cryo-EM. <i>Cell</i> , 2017 , 170, 1234-1246.e14	56.2	71
175	Arachidonic Acid Metabolism by Human Cardiovascular CYP2J2 Is Modulated by Doxorubicin. <i>Biochemistry</i> , 2017 , 56, 6700-6712	3.2	19
174	Critical Role of Water Molecules in Proton Translocation by the Membrane-Bound Transhydrogenase. <i>Structure</i> , 2017 , 25, 1111-1119.e3	5.2	8
173	Mitochondrial VDAC1: A Key Gatekeeper as Potential Therapeutic Target. <i>Frontiers in Physiology</i> , 2017 , 8, 460	4.6	139
172	Lipids and ions traverse the membrane by the same physical pathway in the nhTMEM16 scramblase. <i>ELife</i> , 2017 , 6,	8.9	64
171	Coupling X-Ray Reflectivity and In Silico Binding to Yield Dynamics of Membrane Recognition by Tim1. <i>Biophysical Journal</i> , 2017 , 113, 1505-1519	2.9	14
170	Microscopic Characterization of Membrane Transporter Function by In Silico Modeling and Simulation. <i>Methods in Enzymology</i> , 2016 , 578, 373-428	1.7	5
169	Asymmetric Binding and Metabolism of Polyunsaturated Fatty Acids (PUFAs) by CYP2J2 Epoxygenase. <i>Biochemistry</i> , 2016 , 55, 6969-6980	3.2	25

168	Q-Band Electron-Nuclear Double Resonance Reveals Out-of-Plane Hydrogen Bonds Stabilize an Anionic Ubisemiquinone in Cytochrome bo from Escherichia coli. <i>Biochemistry</i> , 2016 , 55, 5714-5725	3.2	8
167	X-ray structures define human P2X(3) receptor gating cycle and antagonist action. <i>Nature</i> , 2016 , 538, 66-71	50.4	134
166	Stapled Peptides with EMethylated Hydrocarbon Chains for the Estrogen Receptor/Coactivator Interaction. <i>Angewandte Chemie</i> , 2016 , 128, 4324-4327	3.6	16
165	Molecular Basis for Differential Anion Binding and Proton Coupling in the Cl(-)/H(+) Exchanger ClC-ec1. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3066-75	16.4	29
164	Enhancing Mn(II)-Binding and Manganese Peroxidase Activity in a Designed Cytochrome c Peroxidase through Fine-Tuning Secondary-Sphere Interactions. <i>Biochemistry</i> , 2016 , 55, 1494-502	3.2	15
163	All the O2 Consumed by Thermus thermophilus Cytochrome ba3 Is Delivered to the Active Site through a Long, Open Hydrophobic Tunnel with Entrances within the Lipid Bilayer. <i>Biochemistry</i> , 2016 , 55, 1265-78	3.2	15
162	Conformational Dynamics of the Human Islet Amyloid Polypeptide in a Membrane Environment: Toward the Aggregation Prone Form. <i>Biochemistry</i> , 2016 , 55, 2031-42	3.2	21
161	Revealing an outward-facing open conformational state in a CLC Cl(-)/H(+) exchange transporter. <i>ELife</i> , 2016 , 5,	8.9	31
160	Estrogen receptor alpha somatic mutations Y537S and D538G confer breast cancer endocrine resistance by stabilizing the activating function-2 binding conformation. <i>ELife</i> , 2016 , 5,	8.9	154
159	Stapled Peptides with EMethylated Hydrocarbon Chains for the Estrogen Receptor/Coactivator Interaction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4252-5	16.4	62
158	The cellular membrane as a mediator for small molecule interaction with membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2290-2304	3.8	30
157	TopoGromacs: Automated Topology Conversion from CHARMM to GROMACS within VMD. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1112-6	6.1	32
156	Atomic-level description of protein-lipid interactions using an accelerated membrane model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 1573-83	3.8	29
155	Binding Site Recognition and Docking Dynamics of a Single Electron Transport Protein: Cytochrome c2. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12077-89	16.4	12
154	Incorporation of charged residues in the CYP2J2 F-G loop disrupts CYP2J2-lipid bilayer interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 2460-2470	3.8	30
153	Capturing Spontaneous Membrane Insertion of the Influenza Virus Hemagglutinin Fusion Peptide. Journal of Physical Chemistry B, 2015 , 119, 7882-93	3.4	30
152	Efficient Exploration of Membrane-Associated Phenomena at Atomic Resolution. <i>Journal of Membrane Biology</i> , 2015 , 248, 563-82	2.3	24
151	Redox potential tuning through differential quinone binding in the photosynthetic reaction center of Rhodobacter sphaeroides. <i>Biochemistry</i> , 2015 , 54, 2104-16	3.2	10

(2014-2015)

150	Computational characterization of structural dynamics underlying function in active membrane transporters. <i>Current Opinion in Structural Biology</i> , 2015 , 31, 96-105	8.1	41	
149	Mechanism of drug-drug interactions mediated by human cytochrome P450 CYP3A4 monomer. <i>Biochemistry</i> , 2015 , 54, 2227-39	3.2	46	
148	Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate:phosphate antiporter. <i>Nature Communications</i> , 2015 , 6, 8393	17.4	66	
147	Structural Determinants of the Mechanical Stability of Eatenin. <i>Journal of Biological Chemistry</i> , 2015 , 290, 18890-903	5.4	18	
146	Membrane Interaction of the Factor VIIIa Discoidin Domains in Atomistic Detail. <i>Biochemistry</i> , 2015 , 54, 6123-31	3.2	13	
145	CHARMM-GUI HMMM Builder for Membrane Simulations with the Highly Mobile Membrane-Mimetic Model. <i>Biophysical Journal</i> , 2015 , 109, 2012-22	2.9	60	
144	Visualizing Functional Motions of Membrane Transporters at an Atomic Resolution. <i>FASEB Journal</i> , 2015 , 29, 498.2	0.9		
143	Water access points and hydration pathways in CLC H+/Cl- transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1819-24	11.5	40	
142	Changing the peptide specificity of a human T-cell receptor by directed evolution. <i>Nature Communications</i> , 2014 , 5, 5223	17.4	20	
141	A highly tilted membrane configuration for the prefusion state of synaptobrevin. <i>Biophysical Journal</i> , 2014 , 107, 2112-21	2.9	28	
140	Membrane-induced structural rearrangement and identification of a novel membrane anchor in talin F2F3. <i>Biophysical Journal</i> , 2014 , 107, 2059-69	2.9	31	
139	Conformational heterogeneity of Bynuclein in membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 3107-17	3.8	38	
138	A microscopic view of phospholipid insertion into biological membranes. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1754-64	3.4	32	
137	Conformational dynamics at the inner gate of KcsA during activation. <i>Biochemistry</i> , 2014 , 53, 2557-9	3.2	16	
136	Atomistic models of general anesthetics for use in in silico biological studies. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12075-86	3.4	24	
135	Computational Recipe for Efficient Description of Large-Scale Conformational Changes in Biomolecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2866-2880	6.4	52	
134	Partitioning of amino acids into a model membrane: capturing the interface. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1481-92	3.4	43	
133	A Microscopic View of the Mechanisms of Active Transport Across the Cellular Membrane. <i>Annual Reports in Computational Chemistry</i> , 2014 , 10, 77-125	1.8	3	

132	Conformational coupling between the active site and residues within the K(C)-channel of the Vibrio cholerae cbb3-type (C-family) oxygen reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4419-28	11.5	7
131	Thermodynamic insight into spontaneous hydration and rapid water permeation in aquaporins. <i>Applied Physics Letters</i> , 2014 , 105, 083702	3.4	19
130	Molecular Dynamics: The Computational Molecular Microscope. <i>Razavi International Journal of Medicine</i> , 2014 , 2,		1
129	Conformational dynamics of the nucleotide binding domains and the power stroke of a heterodimeric ABC transporter. <i>ELife</i> , 2014 , 3, e02740	8.9	93
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