Soohyung Park

List of Publications by Year
in descending order

33 papers	1,149 citations	489802 18 h-index	466096 32 g-index
34 all docs	34 docs citations	34 times ranked	1828 citing authors

#	Article	IF	Citations
1	Comparative Molecular Dynamics Simulation Studies of Realistic Eukaryotic, Prokaryotic, and Archaeal Membranes. Journal of Chemical Information and Modeling, 2022, 62, 1036-1051.	2.5	32
2	Evolutionary balance between foldability and functionality of a glucose transporter. Nature Chemical Biology, 2022, 18, 713-723.	3.9	13
3	CHARMM-GUI Polymer Builder for Modeling and Simulation of Synthetic Polymers. Journal of Chemical Theory and Computation, 2021, 17, 2431-2443.	2.3	58
4	CHARMM-GUI Membrane Builder for Lipid Nanoparticles with Ionizable Cationic Lipids and PEGylated Lipids. Journal of Chemical Information and Modeling, 2021, 61, 5192-5202.	2.5	25
5	Experimentally Guided Computational Methods Yield Highly Accurate Insights into Transmembrane Interactions within the T Cell Receptor Complex. Journal of Physical Chemistry B, 2020, 124, 10303-10310.	1.2	1
6	Quantitative Characterization of Proteinâ€“Lipid Interactions by Free Energy Simulation between Binary Bilayers. Journal of Chemical Theory and Computation, 2019, 15, 6491-6503.	2.3	7
7	Uâ€shaped caveolinâ€1 conformations are tightly regulated by hydrogen bonds with lipids. Journal of Computational Chemistry, 2019, 40, 1570-1577.	1.5	8
8	Analysis of Lipid Order States and Domains in Lipid Bilayer Simulations. Journal of Chemical Theory and Computation, 2019, 15, 688-697.	2.3	12
9	Structural Conservation and Effects of Alterations in T Cell Receptor Transmembrane Interfaces. Biophysical Journal, 2018, 114, 1030-1035.	0.2	8
10	Quantitative Characterization of Cholesterol Partitioning between Binary Bilayers. Journal of Chemical Theory and Computation, 2018, 14, 2829-2833.	2.3	14
11	Transmembrane features governing Fc receptor CD16A assembly with CD16A signaling adaptor molecules. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5645-E5654.	3.3	32
12	CHARMMâ€GUI 10 years for biomolecular modeling and simulation. Journal of Computational Chemistry, 2017, 38, 1114-1124.	1.5	224
13	A conserved Îµ transmembrane interface forms the core of a compact T-cell receptorâ€“CD3 structure within the membrane. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6649-E6658.	3.3	40
14	Bilayer Properties of Lipid A from Various Gram-Negative Bacteria. Biophysical Journal, 2016, 111, 1750-1760.	0.2	88
15	Influence of Ganglioside GM1 Concentration on Lipid Clustering and Membrane Properties and Curvature. Biophysical Journal, 2016, 111, 1987-1999.	0.2	41
16	How Tolerant are Membrane Simulations with Mismatch in Area per Lipid between Leaflets?. Journal of Chemical Theory and Computation, 2015, 11, 3466-3477.	2.3	64
17	CHARMM-GUI HMMM Builder for Membrane Simulations with the Highly Mobile Membrane-Mimetic Model. Biophysical Journal, 2015, 109, 2012-2022.	0.2	89
18	Insight into Early-Stage Unfolding of GPI-Anchored Human Prion Protein. Biophysical Journal, 2015, 109, 2090-2100.	0.2	18

#	Article	IF	Citations
19	Transmembrane Complexes of DAP12 Crystallized in Lipid Membranes Provide Insights into Control of Oligomerization in Immunoreceptor Assembly. Cell Reports, 2015, 11, 1184-1192.	2.9	20
20	Lipid-Linked Oligosaccharides in Membranes Sample Conformations That Facilitate Binding to Oligosaccharyltransferase. Biophysical Journal, 2014, 107, 1885-1895.	0.2	21
21	Theory of Adaptive Optimization for Umbrella Sampling. Journal of Chemical Theory and Computation, 2014, 10, 2719-2728.	2.3	21
22	Two Dimensional Window Exchange Umbrella Sampling for Transmembrane Helix Assembly. Journal of Chemical Theory and Computation, 2013, 9, 13-17.	2.3	38
23	Transmembrane Helix Assembly by Window Exchange Umbrella Sampling. Physical Review Letters, 2012, 108, 108102.	2.9	61
24	Atomistic Simulations of Dilute Polyelectrolyte Solutions. Journal of Physical Chemistry B, 2012, 116, 4319-4327.	1.2	25
25	Multisite reversible geminate reaction. Journal of Chemical Physics, 2009, 130, 074507.	1.2	16
26	Distance-Dependent Proton Transfer along Water Wires Connecting Acidâ^'Base Pairs. Journal of Physical Chemistry A, 2009, 113, 6599-6606.	1.1	77
27	Diffusionâ€Influenced Excitedâ€State Reversible Geminate ABCD Reaction in the Presence of an External Field. Chemistry - an Asian Journal, 2008, 3, 1266-1276.	1.7	5
28	Concentration Profiles near an Activated Enzyme. Journal of Physical Chemistry B, 2008, 112, 12104-12114.	1.2	10
29	Diffusion-Influenced Reversible Geminate ABCD Reaction in the Presence of an External Field. Journal of Physical Chemistry B, 2008, 112, 6241-6249.	1.2	9
30	Theory and Simulation of Diffusion-Controlled Michaelisâ^'Menten Kinetics for a Static Enzyme in Solutionâ€. Journal of Physical Chemistry B, 2008, 112, 5977-5987.	1.2	39
31	Diffusion-Influenced Reversible Trapping Problem in the Presenceâ€‰ofâ€‰anâ€‰External Field. Chemistry - an Asian Journal, 2006, 1, 216-223.	1.7	7
32	Diffusion-influenced excited-state reversible transfer reactions, A*+Bâ‡ŒC*+D, with two different lifetimes: Theories and simulations. Journal of Chemical Physics, 2005, 123, 034507.	1.2	15
33	Exact solution of the excited-state geminate A*+Bâ‡„C*+D reaction with two different lifetimes and quenching. Journal of Chemical Physics, 2004, 121, 868-876.	1.2	10