Soonmin Jang

List of Publications by Year
in descending order

34 papers	669 citations	687220 13 h-index	552653 26 g-index
36 all docs	36 docs citations	36 times ranked	746 citing authors

#	Article	IF	Citations
1	Ab Initio Folding of Helix Bundle Proteins Using Molecular Dynamics Simulations. Journal of the American Chemical Society, 2003, 125, 14841-14846.	6.6	112
2	Replica-Exchange Method Using the Generalized Effective Potential. Physical Review Letters, 2003, 91, 058305.	2.9	91
3	Amyloid Î²-Peptide OligomerizationinSilico:Â Dimer and Trimer. Journal of Physical Chemistry B, 2006, 110, 1955-1958.	1.2	63
4	Molecular Dynamics Study of Peptides in Implicit Water:Â Ab Initio Folding of Î²-Hairpin, Î²-Sheet, and Î²Î²Î±-motif. Journal of the American Chemical Society, 2002, 124, 4976-4977.	6.6	62
5	Computational Study on the Structural Diversity of Amyloid Beta Peptide (AÎ²₁₀₋₃₅) Oligomers. Journal of Physical Chemistry B, 2008, 112, 3479-3484.	1.2	52
6	A fully atomistic computer simulation study of cold denaturation of a Î²-hairpin. Nature Communications, 2014, 5, 5773.	5.8	44
7	Free energy surfaces of miniproteins with a Î²Î²Î± motif: Replica exchange molecular dynamics simulation with an implicit solvation model. Proteins: Structure, Function and Bioinformatics, 2005, 62, 663-671.	1.5	34
8	Energy Landscapes Associated with the Self-Aggregation of an Alanine-Based Oligopeptide (AAKA)₄. Journal of Physical Chemistry B, 2009, 113, 6054-6061.	1.2	19
9	Solidâ€Phase Total Synthesis of the Proposed Structure of Coibamide A and Its Derivative: Highly Methylated Cyclic Depsipeptides. European Journal of Organic Chemistry, 2015, 2015, 7043-7052.	1.2	19
10	The role of the acidic domain of Î±-synuclein in amyloid fibril formation: a molecular dynamics study. Journal of Biomolecular Structure and Dynamics, 2016, 34, 376-383.	2.0	19
11	All-atom level direct folding simulation of a Î²Î²Î± miniprotein. Journal of Chemical Physics, 2008, 128, 105102.	1.2	16
12	Comparison of ionization behaviors of ring and linear carbohydrates in MALDI-TOFMS. International Journal of Mass Spectrometry, 2009, 279, 53-58.	0.7	16
13	Dual facilitated transport of CO2 using electrospun composite membranes containing Ionic liquid. Journal of Membrane Science, 2015, 479, 77-84.	4.1	16
14	Formation of metal complex ions from amino acid in the presence of Li⁺, Na⁺ and K⁺ by electrospray ionization: metal replacement of hydrogen in the ligands. Journal of Mass Spectrometry, 2011, 46, 496-501.	0.7	12
15	Prediction of helical peptide folding in an implicit water by a new molecular dynamics scheme with generalized effective potential. Journal of Chemical Physics, 2002, 116, 6831-6835.	1.2	11
16	Symmetrically functionalized diketopyrrolopyrrole with alkylated thiophene moiety: from synthesis to electronic devices applications. Journal of Materials Science, 2014, 49, 4215-4224.	1.7	11
17	Investigation on critical structural motifs of ligands for triggering glucocorticoid receptor nuclear migration through molecular docking simulations. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1214-1231.	2.0	11
18	Molecular dynamics study with mutation shows that Nâ€terminal domain structural reâ€orientation in Niemannâ€Pick type C1 is required for proper alignment of cholesterol transport. Journal of Neurochemistry, 2021, 156, 967-978.	2.1	8

#	Article	IF	Citations
19	The contribution of polar Câ€“H hydrogen bonds to anion binding. New Journal of Chemistry, 2016, 40, 794-802.	1.4	7
20	Crystal structures of Uso1 membrane tether reveal an alternative conformation in the globular head domain. Scientific Reports, 2020, 10, 9544.	1.6	7
21	Computational Probing of Temperature-Dependent Unfolding of a Small Globular Protein: From Cold to Heat Denaturation. Journal of Chemical Theory and Computation, 2021, 17, 515-524.	2.3	7
22	Structure of 4-biphenylthiolate on Au nanoparticle surfaces studied by UV-Vis absorption spectroscopy, transmission electron microscopy and surface-enhanced Raman scattering. Surface and Interface Analysis, 2004, 36, 43-48.	0.8	6
23	Equilibrium structures of water molecules confined within a multiply connected carbon nanotube: a molecular dynamics study. Physical Chemistry Chemical Physics, 2020, 22, 252-257.	1.3	5
24	Surface-Enhanced Raman Sensing of Semi-Volatile Organic Compounds by Plasmonic Nanostructures. Nanomaterials, 2021, 11, 2619.	1.9	5
25	Detection of benzalkonium chloride on glass surfaces using silver nanoparticles. Bulletin of the Korean Chemical Society, 2022, 43, 246-254.	1.0	4
26	Surface-dependent gas equilibrium of semi-volatile organic compounds on glass, wood, and polyurethane foam using SPME-GC/MS. Chemosphere, 2022, 291, 132869.	4.2	4
27	Conformational sampling of metastable states: Tq-REM as a novel replica exchange method. Physical Chemistry Chemical Physics, 2017, 19, 5454-5464.	1.3	2
28	Vibrational Spectroscopic Estimation of Semivolatile Organic Compound Evaporation From Glass Surfaces. Bulletin of the Korean Chemical Society, 2020, 41, 1169-1174.	1.0	2
29	The point mutation of the cholesterol trafficking membrane protein NPC1 may affect its proper function in more than a single step: Molecular dynamics simulation study. Computational Biology and Chemistry, 2022, 99, 107725.	1.1	2
30	Docking study of the precursor peptide of matoparan onto its putative processing enzyme, dipeptidyl peptidase IV: a revisit to molecular ticketing. Journal of Computer-Aided Molecular Design, 2010, 24, 213-224.	1.3	1
31	The Structural Study of Copperâ€binding Peptides: Implication in the Aggregation of Amyloidâ€Î² Peptides. Journal of the Chinese Chemical Society, 2013, 60, 891-897.	0.8	1
32	Geometric Effects on Conductance in Single Molecule Electron Transport Junctions. Journal of the Chinese Chemical Society, 2009, 56, 1198-1204.	0.8	0
33	A fluoride selective water-soluble anion receptor based on a 1,2-phenylenediacetic acid and calcium ion dimer. New Journal of Chemistry, 2019, 43, 13690-13695.	1.4	0
34	Characterization of the fragmentation behaviors of protonated Î±â€cyclodextrin generated by electrospray ionization. Rapid Communications in Mass Spectrometry, 2021, 35, e8967.	0.7	0