Seungsoo Hahn

List of Publications by Year
in descending order

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22 papers	651 citations	759055 12 h-index	752573 20 g-index
22 all docs	22 docs citations	22 times ranked	432 citing authors

#	Article	IF	Citations
1	Simulation Studies of Amide I IR Absorption and Two-Dimensional IR Spectra of Î² Hairpins in Liquid Water. Journal of Physical Chemistry B, 2005, 109, 11789-11801.	1.2	103
2	Characteristic two-dimensional IR spectroscopic features of antiparallel and parallel Î²-sheet polypeptides: Simulation studies. Journal of Chemical Physics, 2005, 123, 084905.	1.2	77
3	Amide I Modes of Î±-Helical Polypeptide in Liquid Water:Â Conformational Fluctuation, Phase Correlation, and Linear and Nonlinear Vibrational Spectra. Journal of Physical Chemistry B, 2004, 108, 9333-9345.	1.2	76
4	Computational spectroscopy of ubiquitin: Comparison between theory and experiments. Journal of Chemical Physics, 2007, 126, 045102.	1.2	76
5	Amide I IR, VCD, and 2d IR spectra of isotope-labeled Î±-helix in liquid water: Numerical simulation studies. International Journal of Quantum Chemistry, 2005, 104, 616-634.	1.0	69
6	Theoretical calculations of infrared absorption, vibrational circular dichroism, and two-dimensional vibrational spectra of acetylproline in liquids water and chloroform. Journal of Chemical Physics, 2004, 121, 1849-1865.	1.2	43
7	Vibrational dynamics of DNA. III. Molecular dynamics simulations of DNA in water and theoretical calculations of the two-dimensional vibrational spectra. Journal of Chemical Physics, 2006, 125, 114510.	1.2	43
8	Vibrational spectroscopic characteristics of secondary structure polypeptides in liquid water: Constrained MD simulation studies. Biopolymers, 2006, 83, 519-536.	1.2	39
9	Structure ofN-Acetylproline Amide in Liquid Water:Â Experimentally Measured and Numerically Simulated Infrared and Vibrational Circular Dichroism Spectraâ€. Journal of Physical Chemistry B, 2006, 110, 18834-18843.	1.2	38
10	Site-Specific Hydrogen-Bonding Interaction between N-Acetylproline Amide and Protic Solvent Molecules:â€‰ Comparisons of IR and VCD Measurements with MD Simulations. Journal of Physical Chemistry A, 2006, 110, 13355-13365.	1.1	20
11	Cluster expansion models for flexibleâ€backbone protein energetics. Journal of Computational Chemistry, 2009, 30, 2402-2413.	1.5	17
12	Identifying and reducing error in clusterâ€expansion approximations of protein energies. Journal of Computational Chemistry, 2010, 31, 2900-2914.	1.5	14
13	Anomalous Dynamics of in Vivo Cargo Delivery by Motor Protein Multiplexes. Journal of Physical Chemistry Letters, 2019, 10, 3071-3079.	2.1	10
14	Physical Origin of the Contact Frequency in Chromosome Conformation Capture Data. Biophysical Journal, 2013, 105, 1786-1795.	0.2	9
15	Transient Protein-Protein Interaction of the SH3-Peptide Complex via Closely Located Multiple Binding Sites. PLoS ONE, 2012, 7, e32804.	1.1	6
16	Effective representation of amide III, II, I, and A modes on local vibrational modes: Analysis of ab initio quantum calculation results. Journal of Chemical Physics, 2016, 145, 164113.	1.2	4
17	Identifying and Reducing Systematic Errors in Chromosome Conformation Capture Data. PLoS ONE, 2015, 10, e0146007.	1.1	2
18	Magnetic Structure of Inorganicâ€“Organic Hybrid (C6H5CH2CH2NH3)2MnCl4 Using Magnetic Space Group Concept. Symmetry, 2020, 12, 1980.	1.1	2

#	Article	IF	Citations
19	Super-Gaussian, superdiffusive transport of multimode active matter. Physical Review E, 2020, 102, 042612.	0.8	2
20	Effects of Velocity Fluctuation on Active Matter Diffusion. Journal of the Korean Physical Society, 2018, 73, 242-248.	0.3	1
21	Relationship between spatial organization and biological function, analyzed using gene ontology and chromosome conformation capture of human and fission yeast genomes. Genes and Genomics, 2016, 38, 693-705.	0.5	0
22	Intracellular Transport Dynamics of Upconverting Nanoparticles in Living Cells. Biophysical Journal, 2020, 118, 574a.	0.2	0