

# Shuanghong Huo

## List of Publications by Year in descending order

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34  
papers

5,439  
citations

430874

18  
h-index

377865

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36  
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36  
docs citations

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times ranked

6546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculating Structures and Free Energies of Complex Molecules: Combining Molecular Mechanics and Continuum Models. <i>Accounts of Chemical Research</i> , 2000, 33, 889-897.	15.6	4,098
2	Computational alanine scanning of the 1:1 human growth hormone-receptor complex. <i>Journal of Computational Chemistry</i> , 2002, 23, 15-27.	3.3	288
3	Molecular Dynamics and Free Energy Analyses of Cathepsin D Inhibitor Interactions: Insight into Structure-Based Ligand Design. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 1412-1419.	6.4	168
4	The MaxFlux algorithm for calculating variationally optimized reaction paths for conformational transitions in many body systems at finite temperature. <i>Journal of Chemical Physics</i> , 1997, 107, 5000-5006.	3.0	122
5	Solvation Model Based on Weighted Solvent Accessible Surface Area. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5055-5067.	2.6	107
6	Formation and Growth of Oligomers: A Monte Carlo Study of an Amyloid Tau Fragment. <i>PLoS Computational Biology</i> , 2008, 4, e1000238.	3.2	104
7	A Novel Mutant Cardiac Troponin C Disrupts Molecular Motions Critical for Calcium Binding Affinity and Cardiomyocyte Contractility. <i>Biophysical Journal</i> , 2008, 94, 3577-3589.	0.5	62
8	Long Time Dynamic Simulations: Exploring the Folding Pathways of an Alzheimer's Amyloid A $\beta$ -Peptide. <i>Accounts of Chemical Research</i> , 2002, 35, 473-481.	15.6	59
9	Molecular Dynamics Simulation Study of the B-States of Solvated Carbon Monoxymyoglobin. <i>Journal of the American Chemical Society</i> , 1997, 119, 2541-2551.	13.7	51
10	Direct computation of long time processes in peptides and proteins: Reaction path study of the coil-to-helix transition in polyalanine. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 36, 249-261.	2.6	47
11	Why is Leu55 $\rightarrow$ Pro55 transthyretin variant the most amyloidogenic: Insights from molecular dynamics simulations of transthyretin monomers. <i>Protein Science</i> , 2003, 12, 1222-1231.	7.6	43
12	Evaluation of Dimensionality-Reduction Methods from Peptide Folding Unfolding Simulations. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 2490-2497.	5.3	34
13	Conformations of Islet Amyloid Polypeptide Monomers in a Membrane Environment: Implications for Fibril Formation. <i>PLoS ONE</i> , 2012, 7, e47150.	2.5	30
14	The Sequence-Dependent Unfolding Pathway Plays a Critical Role in the Amyloidogenicity of Transthyretin. <i>Biochemistry</i> , 2006, 45, 11992-12002.	2.5	28
15	Initial Conformational Changes of Human Transthyretin under Partially Denaturing Conditions. <i>Biophysical Journal</i> , 2005, 89, 433-443.	0.5	26
16	Evaluation of Configurational Entropy Methods from Peptide Folding Unfolding Simulation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13807-13813.	2.6	25
17	Structural and Pathway Complexity of $\beta$ -Strand Reorganization within Aggregates of Human Transthyretin(105 $\sim$ 115) Peptide. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5425-5433.	2.6	21
18	Intrinsic versus mutation dependent instability/flexibility: a comparative analysis of the structure and dynamics of wild-type transthyretin and its pathogenic variants. <i>Journal of Structural Biology</i> , 2004, 148, 153-168.	2.8	20

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19	Peptide Plane Can Flip in Two Opposite Directions:Â Implication in Amyloid Formation of Transthyretin. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5829-5833.	2.6	18
20	Temperature-Dependent Probabilistic Roadmap Algorithm for Calculating Variationally Optimized Conformational Transition Pathways. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 17-25.	5.3	14
21	Predicting the Folding Pathway of Engrailed Homeodomain with a Probabilistic Roadmap Enhanced Reaction-Path Algorithm. <i>Biophysical Journal</i> , 2008, 94, 1622-1629.	0.5	11
22	Quantum mechanical studies on model $\beta$ -pleated sheets. <i>Journal of Computational Chemistry</i> , 2010, 31, 1216-1223.	3.3	10
23	Observation of Two Families of Folding Pathways of BBL. <i>Biophysical Journal</i> , 2011, 100, 2457-2465.	0.5	9
24	Graph representation of protein free energy landscape. <i>Journal of Chemical Physics</i> , 2013, 139, 185101.	3.0	8
25	Network representation of conformational transitions between hidden intermediates of Rd-apocytochrome b562. <i>Journal of Chemical Physics</i> , 2015, 143, 135101.	3.0	6
26	Potential influence of Asp in the Ca <sup>2+</sup> coordination position 5 of parvalbumin on the calcium-binding affinity: A computational study. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1879-1887.	3.5	5
27	Euclidean sections of protein conformation space and their implications in dimensionality reduction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 2585-2596.	2.6	5
28	Effects of Two Solvent Conditions on the Free Energy Landscape of the BBL Peripheral Subunit Binding Domain. <i>Journal of Physical Chemistry B</i> , 2012, 116, 646-652.	2.6	4
29	Observations on AMBER Force Field Performance under the Conditions of Low pH and High Salt Concentrations. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9838-9847.	2.6	4
30	Long-Range Reactivity Modulations in Geranyl Chloride Derivatives. <i>Journal of Organic Chemistry</i> , 2016, 81, 10964-10974.	3.2	3
31	Interplay between human islet amyloid polypeptide aggregates and micro-heterogeneous membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183691.	2.6	3
32	Direct computation of long time processes in peptides and proteins: Reaction path study of the coil-to-helix transition in polyalanine. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 36, 249-261.	2.6	3
33	Inherent structure versus geometric metric for state space discretization. <i>Journal of Computational Chemistry</i> , 2016, 37, 1251-1258.	3.3	2
34	Approximating dynamic proximity with a hybrid geometry energy-based kernel for diffusion maps. <i>Journal of Chemical Physics</i> , 2019, 151, 105101.	3.0	1