

# Wei Han

## List of Publications by Year in descending order

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38  
papers

1,701  
citations

304743

22  
h-index

330143

37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2071  
citing authors

#	ARTICLE	IF	CITATIONS
1	CHARMM-GUI PDB Manipulator for Advanced Modeling and Simulations of Proteins Containing Nonstandard Residues. <i>Advances in Protein Chemistry and Structural Biology</i> , 2014, 96, 235-265.	2.3	214
2	Fibril Elongation by $\beta$ -Sheet: Kinetic Network Analysis of Hybrid-Resolution Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2014, 136, 12450-12460.	13.7	127
3	Further Optimization of a Hybrid United-Atom and Coarse-Grained Force Field for Folding Simulations: Improved Backbone Hydration and Interactions between Charged Side Chains. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4413-4424.	5.3	120
4	Theoretical Analysis of Secondary Structures of $\beta$ -Peptides. <i>Accounts of Chemical Research</i> , 2008, 41, 1418-1427.	15.6	113
5	Macrolide antibiotics allosterically predispose the ribosome for translation arrest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9804-9809.	7.1	99
6	PACE Force Field for Protein Simulations. 1. Full Parameterization of Version 1 and Verification. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3373-3389.	5.3	89
7	A Strand-Loop-Strand Structure Is a Possible Intermediate in Fibril Elongation: Long Time Simulations of Amyloid- $\beta$ Peptide (10 $\beta$ 35). <i>Journal of the American Chemical Society</i> , 2005, 127, 15408-15416.	13.7	78
8	Transient $\beta$ -hairpin formation in $\beta$ -synuclein monomer revealed by coarse-grained molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 2015, 143, 243142.	3.0	73
9	Parameterization of PACE Force Field for Membrane Environment and Simulation of Helical Peptides and Helix-Helix Association. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 300-313.	5.3	61
10	Water access points and hydration pathways in CLC H <sup>+</sup> /Cl <sup>-</sup> transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1819-1824.	7.1	58
11	The intrinsic conformational features of amino acids from a protein coil library and their applications in force field development. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3413.	2.8	55
12	PACE Force Field for Protein Simulations. 2. Folding Simulations of Peptides. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3390-3402.	5.3	51
13	CHARMM-GUI PACE CG Builder for Solution, Micelle, and Bilayer Coarse-Grained Simulations. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1003-1009.	5.4	47
14	Self-Assembly Pathways of $\beta$ -Sheet-Rich Amyloid- $\beta$ (1 $\beta$ 40) Dimers: Markov State Model Analysis on Millisecond Hybrid-Resolution Simulations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5731-5744.	5.3	45
15	Conformation Dependence of Diphenylalanine Self-Assembly Structures and Dynamics: Insights from Hybrid-Resolution Simulations. <i>ACS Nano</i> , 2019, 13, 4455-4468.	14.6	45
16	Influence of Side Chain Conformations on Local Conformational Features of Amino Acids and Implication for Force Field Development. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5840-5850.	2.6	44
17	Revealing an outward-facing open conformational state in a CLC Cl <sup>-</sup> /H <sup>+</sup> exchange transporter. <i>ELife</i> , 2016, 5, .	6.0	43
18	Coarse-Grained Protein Model Coupled with a Coarse-Grained Water Model: Molecular Dynamics Study of Polyalanine-Based Peptides. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 2146-2161.	5.3	42

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19	Assembly of Nsp1 Nucleoporins Provides Insight into Nuclear Pore Complex Gating. PLoS Computational Biology, 2014, 10, e1003488.	3.2	42
20	Toward a Coarse-Grained Protein Model Coupled with a Coarse-Grained Solvent Model: Solvation Free Energies of Amino Acid Side Chains. Journal of Chemical Theory and Computation, 2008, 4, 1891-1901.	5.3	39
21	Characterization of Folding Mechanisms of Trp-Cage and WW-Domain by Network Analysis of Simulations with a Hybrid-Resolution Model. Journal of Physical Chemistry B, 2013, 117, 13367-13377.	2.6	39
22	Molecular Basis for Differential Anion Binding and Proton Coupling in the Cl <sup>-</sup> /H <sup>+</sup> Exchanger CIC-ec1. Journal of the American Chemical Society, 2016, 138, 3066-3075.	13.7	36
23	Initial Substrate Binding of Î³-Secretase: The Role of Substrate Flexibility. ACS Chemical Neuroscience, 2017, 8, 1279-1290.	3.5	23
24	Molecular dynamics studies of hexamers of amyloid-Î² peptide (16-35) and its mutants: Influence of charge states on amyloid formation. Proteins: Structure, Function and Bioinformatics, 2006, 66, 575-587.	2.6	22
25	Î±-Helical Motif as Inhibitors of Toxic Amyloid-Î² Oligomer Generation via Highly Specific Recognition of Amyloid Surface. IScience, 2019, 17, 87-100.	4.1	12
26	Computational studies of protein aggregation mediated by amyloid: Fibril elongation and secondary nucleation. Progress in Molecular Biology and Translational Science, 2020, 170, 461-504.	1.7	12
27	Molecular design of stapled pentapeptides as building blocks of self-assembled coiled coil-like fibers. Science Advances, 2021, 7, .	10.3	12
28	Recognition of Poly-Ubiquitins by the Proteasome through Protein Refolding Guided by Electrostatic and Hydrophobic Interactions. Journal of Physical Chemistry B, 2016, 120, 8137-8146.	2.6	11
29	<i>In Silico</i> Study of Recognition between AÎ² <sub>40</sub> and AÎ² <sub>40</sub> Fibril Surfaces: An N-Terminal Helical Recognition Motif and Its Implications for Inhibitor Design. ACS Chemical Neuroscience, 2018, 9, 935-944.	3.5	11
30	Development of a Hybrid-Resolution Force Field for Peptide Self-Assembly Simulations: Optimizing Peptide-Solvent and Peptide-Solvent Interactions. Journal of Chemical Information and Modeling, 2022, 62, 2744-2760.	5.4	7
31	Parametrization of MARTINI for Modeling Hinging Motions in Membrane Proteins. Journal of Physical Chemistry B, 2019, 123, 2254-2269.	2.6	6
32	Multiscale Exploration of Concentration-Dependent Amyloid-Î²(16-21) Amyloid Nucleation. Journal of Physical Chemistry Letters, 2022, 13, 5009-5016.	4.6	6
33	Targeting the Amyloid-Î² Fibril Surface with a Constrained Helical Peptide Inhibitor. Biochemistry, 2020, 59, 290-296.	2.5	5
34	A Microscopic View of the Mechanisms of Active Transport Across the Cellular Membrane. Annual Reports in Computational Chemistry, 2014, 10, 77-125.	1.7	4
35	Sequence-Dependent Nanofiber Structures of Phenylalanine and Isoleucine Tripeptides. International Journal of Molecular Sciences, 2020, 21, 8431.	4.1	4
36	Bottom-up derived flexible water model with dipole and quadrupole moments for coarse-grained molecular simulations. Physical Chemistry Chemical Physics, 2020, 22, 27394-27412.	2.8	3

#	ARTICLE	IF	CITATIONS
37	Anatomy and formation mechanisms of early amyloid- $\beta^2$ oligomers with lateral branching: graph network analysis on large-scale simulations. <i>Chemical Science</i> , 2022, 13, 2649-2660.	7.4	3
38	In silico study on the effect of F19T mutation on amyloid-b peptide (10-35). <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 3951.	3.0	0