

# Christine Peter

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,621  
citations

331670

21  
h-index

302126

39  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent-mediated isotope effects strongly influence the early stages of calcium carbonate formation: exploring D <sub>2</sub> O vs. H <sub>2</sub> O in a combined computational and experimental approach. <i>Faraday Discussions</i> , 2022, 235, 36-55.	3.2	1
2	Multiscale simulations of protein and membrane systems. <i>Current Opinion in Structural Biology</i> , 2022, 72, 203-208.	5.7	5
3	A Ligand Selection Strategy Identifies Chemical Probes Targeting the Proteases of SARS-CoV-2. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6799-6806.	13.8	14
4	Deciphering molecular details of the RAC ribosome interaction by EPR spectroscopy. <i>Scientific Reports</i> , 2021, 11, 8681.	3.3	5
5	Coarse grained simulation of the aggregation and structure control of polyethylene nanocrystals. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 264001.	1.8	2
6	The Role of Conserved Residues in the DEDDh Motif: the Proton-Transfer Mechanism of HIV-1 RNase H. <i>ACS Catalysis</i> , 2021, 11, 7915-7927.	11.2	11
7	Guanidine-II aptamer conformations and ligand binding modes through the lens of molecular simulation. <i>Nucleic Acids Research</i> , 2021, 49, 7954-7965.	14.5	6
8	Titin kinase ubiquitination aligns autophagy receptors with mechanical signals in the sarcomere. <i>EMBO Reports</i> , 2021, 22, e48018.	4.5	22
9	Three Reasons Why Aspartic Acid and Glutamic Acid Sequences Have a Surprisingly Different Influence on Mineralization. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10335-10343.	2.6	17
10	Machine Learning Force Fields and Coarse-Grained Variables in Molecular Dynamics: Application to Materials and Biological Systems. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4757-4775.	5.3	120
11	Machine Learning Driven Analysis of Large Scale Simulations Reveals Conformational Characteristics of Ubiquitin Chains. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3205-3220.	5.3	9
12	Editorial overview: Theory and simulation: Progress, yes; revolutions, no. <i>Current Opinion in Structural Biology</i> , 2020, 61, iii-v.	5.7	0
13	Coarse-Grained Simulation of the Adsorption of Water on Au(111) Surfaces Using a Modified Stillinger-Weber Potential. <i>ACS Omega</i> , 2020, 5, 31055-31059.	3.5	3
14	Anisotropic Extended-Chain Polymer Nanocrystals. <i>Macromolecules</i> , 2019, 52, 6142-6148.	4.8	4
15	EncoderMap(II): Visualizing Important Molecular Motions with Improved Generation of Protein Conformations. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4550-4560.	5.4	13
16	Back-mapping based sampling: Coarse grained free energy landscapes as a guideline for atomistic exploration. <i>Journal of Chemical Physics</i> , 2019, 151, 154102.	3.0	14
17	Simulating and analysing configurational landscapes of protein-protein contact formation. <i>Interface Focus</i> , 2019, 9, 20180062.	3.0	17
18	Conformational and functional characterization of artificially conjugated non-canonical ubiquitin dimers. <i>Scientific Reports</i> , 2019, 9, 19991.	3.3	7

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19	Coarse-Grained Simulation of CaCO <sub>3</sub> Aggregation and Crystallization Made Possible by Nonbonded Three-Body Interactions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3152-3160.	3.1	7
20	Coarse-Grained Simulations of Peptide Nanoparticle Formation: Role of Local Structure and Nonbonded Interactions. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1453-1462.	5.3	10
21	EncoderMap: Dimensionality Reduction and Generation of Molecule Conformations. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1209-1215.	5.3	72
22	Relative Resolution: A multipole approximation at appropriate distances. <i>Physical Review Research</i> , 2019, 1, .	3.6	2
23	Towards a molecular basis of ubiquitin signaling: A dual-scale simulation study of ubiquitin dimers. <i>PLoS Computational Biology</i> , 2018, 14, e1006589.	3.2	26
24	Snapshots of a modified nucleotide moving through the confines of a DNA polymerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9992-9997.	7.1	23
25	Efficient Sampling and Characterization of Free Energy Landscapes of Ionâ€“Peptide Systems. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5476-5488.	5.3	10
26	The structure of the ubiquitin-like modifier FAT10 reveals an alternative targeting mechanism for proteasomal degradation. <i>Nature Communications</i> , 2018, 9, 3321.	12.8	25
27	Evaluation and Optimization of Interface Force Fields for Water on Gold Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5610-5623.	5.3	34
28	Single molecule translocation in smectics illustrates the challenge for time-mapping in simulations on multiple scales. <i>Journal of Chemical Physics</i> , 2017, 147, 114501.	3.0	8
29	Combining Experimental and Simulation Techniques to Understand Morphology Control in Pentapeptide Nanostructures. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8155-8161.	2.6	6
30	Soluble Oligomeric Nucleants: Simulations of Chain Length, Binding Strength, and Volume Fraction Effects. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5815-5820.	4.6	7
31	Neural Network Based Prediction of Conformational Free Energies - A New Route toward Coarse-Grained Simulation Models. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6213-6221.	5.3	36
32	Multivalent contacts of the Hsp70 Ssb contribute to its architecture on ribosomes and nascent chain interaction. <i>Nature Communications</i> , 2016, 7, 13695.	12.8	25
33	Using Dimensionality Reduction to Systematically Expand Conformational Sampling of Intrinsically Disordered Peptides. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4726-4734.	5.3	32
34	Representing environment-induced helix-coil transitions in a coarse grained peptide model. <i>European Physical Journal: Special Topics</i> , 2016, 225, 1463-1481.	2.6	7
35	EPR Distance Measurements in Native Proteins with Genetically Encoded Spin Labels. <i>ACS Chemical Biology</i> , 2015, 10, 2764-2771.	3.4	39
36	Relative resolution: A hybrid formalism for fluid mixtures. <i>Journal of Chemical Physics</i> , 2015, 143, 243107.	3.0	9

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37	Molecular simulation of oligo-glutamates in a calcium-rich aqueous solution: insights into peptide-induced polymorph selection. <i>CrystEngComm</i> , 2015, 17, 6863-6867.	2.6	9
38	Tipping the Scale from Disorder to Alpha-helix: Folding of Amphiphilic Peptides in the Presence of Macroscopic and Molecular Interfaces. <i>PLoS Computational Biology</i> , 2015, 11, e1004328.	3.2	33
39	Molecular Dynamics Simulations of Peptides at the Air-Water Interface: Influencing Factors on Peptide-Templated Mineralization. <i>Langmuir</i> , 2014, 30, 15486-15495.	3.5	17
40	Sticky water surfaces: Helix-coil transitions suppressed in a cell-penetrating peptide at the air-water interface. <i>Journal of Chemical Physics</i> , 2014, 141, 22D517.	3.0	24
41	Computer Simulations of Soft Matter: Linking the Scales. <i>Entropy</i> , 2014, 16, 4199-4245.	2.2	89
42	Interaction of Charged Amino-Acid Side Chains with Ions: An Optimization Strategy for Classical Force Fields. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3960-3972.	2.6	41
43	A transferable coarse-grained model for diphenylalanine: How to represent an environment driven conformational transition. <i>Journal of Chemical Physics</i> , 2013, 139, 234115.	3.0	30
44	Optimization of an Elastic Network Augmented Coarse Grained Model to Study CCMV Capsid Deformation. <i>PLoS ONE</i> , 2013, 8, e60582.	2.5	45
45	Derivation of Coarse Grained Models for Multiscale Simulation of Liquid Crystalline Phase Transitions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8474-8484.	2.6	63
46	Coarse-Grained and Atomistic Simulations of the Salt-Stable Cowpea Chlorotic Mottle Virus (SS-CCMV) Subunit 26-49: $\beta$ -Barrel Stability of the Hexamer and Pentamer Geometries. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3750-3758.	5.3	22
47	Multiscale simulation of small peptides: Consistent conformational sampling in atomistic and coarse-grained models. <i>Journal of Computational Chemistry</i> , 2012, 33, 937-949.	3.3	28
48	A Challenge for Peptide Coarse Graining: Transferability of Fragment-Based Models. <i>Macromolecular Theory and Simulations</i> , 2011, 20, 451-465.	1.4	27
49	Transferability of Nonbonded Interaction Potentials for Coarse-Grained Simulations: Benzene in Water. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2434-2444.	5.3	66
50	Multiscale simulation of soft matter systems from the atomistic to the coarse-grained level and back. <i>Soft Matter</i> , 2009, 5, 4357.	2.7	397
51	Self-assembling dipeptides: conformational sampling in solvent-free coarse-grained simulation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2077.	2.8	79