## Lars V Schfer

## List of Publications by Citations

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#	Paper	IF	Citations
7 <sup>1</sup>	Improved Parameters for the Martini Coarse-Grained Protein Force Field. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 687-97	6.4	782
70	Polarizable water model for the coarse-grained MARTINI force field. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000810	5	587
69	Mechanoenzymatics of titin kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 13385-90	11.5	280
68	Structure and mechanism of the reversible photoswitch of a fluorescent protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 13070-4	11.5	222
67	Lipid packing drives the segregation of transmembrane helices into disordered lipid domains in model membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1343-8	11.5	193
66	Ultrafast deactivation of an excited cytosine-guanine base pair in DNA. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 6812-9	16.4	154
65	Reconstruction of atomistic details from coarse-grained structures. <i>Journal of Computational Chemistry</i> , <b>2010</b> , 31, 1333-43	3.5	127
64	Mixing MARTINI: electrostatic coupling in hybrid atomistic-coarse-grained biomolecular simulations. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 3516-30	3.4	117
63	Surface Hopping Excited-State Dynamics Study of the Photoisomerization of a Light-Driven Fluorene Molecular Rotary Motor. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 2189-99	6.4	115
62	Ultrafast deactivation channel for thymine dimerization. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10996-7	16.4	115
61	Transmembrane helices can induce domain formation in crowded model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 984-94	3.8	102
60	Cholesterol in bilayers with PUFA chains: doping with DMPC or POPC results in sterol reorientation and membrane-domain formation. <i>Biochemistry</i> , <b>2010</b> , 49, 7485-93	3.2	90
59	Chromophore protonation state controls photoswitching of the fluoroprotein asFP595. <i>PLoS Computational Biology</i> , <b>2008</b> , 4, e1000034	5	89
58	Photoswitching of the fluorescent protein asFP595: mechanism, proton pathways, and absorption spectra. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 530-6	16.4	89
57	Understanding the dynamics behind the photoisomerization of a light-driven fluorene molecular rotary motor. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 5058-67	2.8	83
56	High-concentration protein formulations: How high is high?. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 119, 353-360	5.7	79
55	Arginine52 controls the photoisomerization process in photoactive yellow protein. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3250-1	16.4	77

54	Influence of hydrophobic mismatch and amino acid composition on the lateral diffusion of transmembrane peptides. <i>Biophysical Journal</i> , <b>2010</b> , 99, 1447-54	2.9	72
53	Partitioning of lipids at domain boundaries in model membranes. <i>Biophysical Journal</i> , <b>2010</b> , 99, L91-3	2.9	72
52	Flooding in GROMACS: accelerated barrier crossings in molecular dynamics. <i>Journal of Computational Chemistry</i> , <b>2006</b> , 27, 1693-702	3.5	53
51	A refined polarizable water model for the coarse-grained MARTINI force field with long-range electrostatic interactions. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 054501	3.9	47
50	Elastic properties of photoswitchable azobenzene polymers from molecular dynamics simulations. Angewandte Chemie - International Edition, <b>2007</b> , 46, 2232-7	16.4	46
49	Determining equilibrium constants for dimerization reactions from molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , <b>2011</b> , 32, 1919-28	3.5	45
48	Hydration Dynamics of a Peripheral Membrane Protein. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11526-35	16.4	40
47	The extracellular gate shapes the energy profile of an ABC exporter. <i>Nature Communications</i> , <b>2019</b> , 10, 2260	17.4	39
46	Molecular mechanism of peptide editing in the tapasin-MHC I complex. Scientific Reports, 2016, 6, 1908.	54.9	39
45	Donor-Site-Directed Rational Assembly of Heteroleptic cis-[Pd L L'] Coordination Cages from Picolyl Ligands. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 12976-12982	4.8	39
44	Molecular Mechanism of ATP Hydrolysis in an ABC Transporter. ACS Central Science, 2018, 4, 1334-1343	16.8	38
43	Mechanistic Basis for Epitope Proofreading in the Peptide-Loading Complex. <i>Journal of Immunology</i> , <b>2015</b> , 195, 4503-13	5.3	30
42	Structure and Dynamics of Phospholipid Nanodiscs from All-Atom and Coarse-Grained Simulations. Journal of Physical Chemistry B, <b>2015</b> , 119, 6991-7002	3.4	30
41	Atomistic Mechanism of Large-Scale Conformational Transition in a Heterodimeric ABC Exporter. Journal of the American Chemical Society, <b>2018</b> , 140, 4543-4551	16.4	28
40	Substrate-induced conformational changes in the S-component ThiT from an energy coupling factor transporter. <i>Structure</i> , <b>2013</b> , 21, 861-7	5.2	28
39	An annular lipid belt is essential for allosteric coupling and viral inhibition of the antigen translocation complex TAP (transporter associated with antigen processing). <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 33098-108	5.4	25
38	Accurate Methyl Group Dynamics in Protein Simulations with AMBER Force Fields. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 5038-5048	3.4	22
37	Fast Microsecond Dynamics of the Protein-Water Network in the Active Site of Human Carbonic Anhydrase II Studied by Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19276-19288	16.4	22

36	Narrowing the gap between experimental and computational determination of methyl group dynamics in proteins. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 24577-24590	3.6	21
35	Systematic evaluation of bundled SPC water for biomolecular simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8393-406	3.6	19
34	Atomistic structure and dynamics of the human MHC-I peptide-loading complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 20597-20606	11.5	19
33	Photodissociation dynamics of SOCl2. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 301-9	3.6	18
32	Solvent effects on ligand binding to a serine protease. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 10753-10766	3.6	18
31	Partial Dissociation of Truncated Peptides Influences the Structural Dynamics of the MHCI Binding Groove. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 408	8.4	17
30	Assembly of the MHC I peptide-loading complex determined by a conserved ionic lock-switch. <i>Scientific Reports</i> , <b>2015</b> , 5, 17341	4.9	17
29	On Using Atomistic Solvent Layers in Hybrid All-Atom/Coarse-Grained Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 4460-72	6.4	15
28	Improved Solution-State Properties of Monoclonal Antibodies by Targeted Mutations. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 10818-10827	3.4	15
27	In vivo trp scanning of the small multidrug resistance protein EmrE confirms 3D structure models'. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 4642-51	6.5	14
26	Computer Simulations of Photobiological Processes: The Effect of the Protein Environment. <i>Advances in Quantum Chemistry</i> , <b>2010</b> , 181-212	1.4	12
25	Predicting NMR relaxation of proteins from molecular dynamics simulations with accurate methyl rotation barriers. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 084102	3.9	10
24	Release of Entropic Spring Reveals Conformational Coupling Mechanism in the ABC Transporter BtuCD-F. <i>Biophysical Journal</i> , <b>2016</b> , 110, 2407-2418	2.9	8
23	Atomistic characterization of collective protein-water-membrane dynamics. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 15958-15965	3.6	7
22	Hydration-mediated stiffening of collective membrane dynamics by cholesterol. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 10370-10376	3.6	7
21	Structure of a Therapeutic Full-Length Anti-NPRA IgG4 Antibody: Dissecting Conformational Diversity. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1637-1649	2.9	7
20	Aminoisobutyric Acid-Stabilized Peptide SAMs with Low Nonspecific Protein Adsorption and Resistance against Marine Biofouling. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 2665-2671	8.3	6
19	The Active Site of a Prototypical "Rigid" Drug Target is Marked by Extensive Conformational Dynamics. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22916-22921	16.4	6

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18	Structural and functional insights into the interaction and targeting hub TMD0 of the polypeptide transporter TAPL. <i>Scientific Reports</i> , <b>2018</b> , 8, 15662	4.9	6
17	The CTPase activity of ParB determines the size and dynamics of prokaryotic DNA partition complexes. <i>Molecular Cell</i> , <b>2021</b> , 81, 3992-4007.e10	17.6	6
16	Capturing Substrate Translocation in an ABC Exporter at the Atomic Level. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12791-12801	16.4	5
15	Recoil velocity-dependent spinBrbit state distribution of chlorine photofragments. <i>Chemical Physics</i> , <b>2004</b> , 301, 213-224	2.3	5
14	Systematic evaluation of CS-Rosetta for membrane protein structure prediction with sparse NOE restraints. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2017</b> , 85, 812-826	4.2	4
13	Capturing the Flexibility of a Protein-Ligand Complex: Binding Free Energies from Different Enhanced Sampling Techniques. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 4615-4630	6.4	4
12	Thermodynamic driving forces of guest confinement in a photoswitchable cage. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 7321-7332	3.6	4
11	Conformational Preferences of an Intrinsically Disordered Protein Domain: A Case Study for Modern Force Fields. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 24-35	3.4	3
10	Remotely controllable supramolecular rotor mounted inside a porphyrinic cage. <i>CheM</i> , <b>2022</b> , 8, 543-556	16.2	2
9	On Obtaining Boltzmann-Distributed Configurational Ensembles from Expanded Ensemble Simulations with Fast State Mixing. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 2774-2779	6.4	1
8	The extracellular gate shapes the energy profile of an ABC exporter		1
7	Protein Motional Details Revealed by Complementary Structural Biology Techniques. <i>Structure</i> , <b>2020</b> , 28, 1024-1034.e3	5.2	1
6	Spectrally Resolved Estimation of Water Entropy in the Active Site of Human Carbonic Anhydrase II. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 5409-5418	6.4	1
5	Protein flexibility reduces solvent-mediated friction barriers of ligand binding to a hydrophobic surface patch. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 5665-5672	3.6	1
4	Accurate evaluation of combustion enthalpy by ab-intio computations Scientific Reports, 2022, 12, 583	<b>4</b> 4.9	1
3	VCD spectroscopy reveals conformational changes of chiral crown ethers upon complexation of potassium and ammonium cations <i>Physical Chemistry Chemical Physics</i> , <b>2022</b> , 24, 11721-11728	3.6	O
2	The Active Site of a Prototypical <b>R</b> igidlDrug Target is Marked by Extensive Conformational Dynamics. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23116-23121	3.6	
1	Atomistic Dynamics of Alternating Access Mechanism of an ABC Transporter <b>2021</b> , 117-124		