

# Steffen Lindert

## List of Publications by Year in descending order

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74  
papers

3,377  
citations

147801

31  
h-index

168389

53  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Macromolecular modeling and design in Rosetta: recent methods and frameworks. <i>Nature Methods</i> , 2020, 17, 665-680.	19.0	513
2	Computational methods in drug discovery. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2694-2718.	2.2	418
3	Antiinfectives targeting enzymes and the proton motive force. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E7073-82.	7.1	138
4	Antibacterial drug leads targeting isoprenoid biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 123-128.	7.1	129
5	Exploring the role of receptor flexibility in structure-based drug discovery. <i>Biophysical Chemistry</i> , 2014, 186, 31-45.	2.8	129
6	Insight into the Mechanisms of Adenovirus Capsid Disassembly from Studies of Defensin Neutralization. <i>PLoS Pathogens</i> , 2010, 6, e1000959.	4.7	109
7	Accounting for Receptor Flexibility and Enhanced Sampling Methods in Computer-Aided Drug Design. <i>Chemical Biology and Drug Design</i> , 2013, 81, 41-49.	3.2	100
8	EM-Fold: De Novo Atomic-Detail Protein Structure Determination from Medium-Resolution Density Maps. <i>Structure</i> , 2012, 20, 464-478.	3.3	86
9	EM-Fold: De Novo Folding of $\alpha$ -Helical Proteins Guided by Intermediate-Resolution Electron Microscopy Density Maps. <i>Structure</i> , 2009, 17, 990-1003.	3.3	76
10	Relative interfacial cleavage energetics of protein complexes revealed by surface collisions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8143-8148.	7.1	60
11	Cryo-Electron Microscopy Structure of an Adenovirus-Integrin Complex Indicates Conformational Changes in both Penton Base and Integrin. <i>Journal of Virology</i> , 2009, 83, 11491-11501.	3.4	53
12	Cell-Permeable Bicyclic Peptidyl Inhibitors against NEMO- $\beta$ Kinase Interaction Directly from a Combinatorial Library. <i>Journal of the American Chemical Society</i> , 2018, 140, 12102-12110.	13.7	52
13	Rosetta Protein Structure Prediction from Hydroxyl Radical Protein Footprinting Mass Spectrometry Data. <i>Analytical Chemistry</i> , 2018, 90, 7721-7729.	6.5	51
14	Cryo-Electron Microscopy Structure of Adenovirus Type 2 Temperature-Sensitive Mutant 1 Reveals Insight into the Cell Entry Defect. <i>Journal of Virology</i> , 2009, 83, 7375-7383.	3.4	48
15	AutoGrow 3.0: An improved algorithm for chemically tractable, semi-automated protein inhibitor design. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 44, 104-112.	2.4	48
16	Computational Studies of the Effect of the S23D/S24D Troponin I Mutation on Cardiac Troponin Structural Dynamics. <i>Biophysical Journal</i> , 2014, 107, 1675-1685.	0.5	48
17	Hybrid methods for combined experimental and computational determination of protein structure. <i>Journal of Chemical Physics</i> , 2020, 153, 240901.	3.0	48
18	Dynamics and Calcium Association to the N-Terminal Regulatory Domain of Human Cardiac Troponin C: A Multiscale Computational Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8449-8459.	2.6	46

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19	PKA Phosphorylation of Cardiac Troponin I Modulates Activation and Relaxation Kinetics of Ventricular Myofibrils. <i>Biophysical Journal</i> , 2014, 107, 1196-1204.	0.5	45
20	Effects of HCM cTnI Mutation R145G on Troponin Structure and Modulation by PKA Phosphorylation Elucidated by Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2015, 108, 395-407.	0.5	43
21	Farnesyl Diphosphate Synthase Inhibitors from <i>In Silico</i> Screening. <i>Chemical Biology and Drug Design</i> , 2013, 81, 742-748.	3.2	42
22	Long-Timescale Molecular Dynamics Simulations Elucidate the Dynamics and Kinetics of Exposure of the Hydrophobic Patch in Troponin C. <i>Biophysical Journal</i> , 2012, 103, 1784-1789.	0.5	39
23	Iterative Molecular Dynamics Rosetta Protein Structure Refinement Protocol to Improve Model Quality. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3843-3847.	5.3	39
24	Accelerated Molecular Dynamics Simulations with the AMOEBA Polarizable Force Field on Graphics Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4684-4691.	5.3	39
25	Structures reveal details of small molecule binding to cardiac troponin. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 101, 134-144.	1.9	39
26	Hybrid approaches: applying computational methods in cryo-electron microscopy. <i>Current Opinion in Structural Biology</i> , 2009, 19, 218-225.	5.7	37
27	The Roles of Actin-Binding Domains 1 and 2 in the Calcium-Dependent Regulation of Actin Filament Bundling by Human Plastins. <i>Journal of Molecular Biology</i> , 2017, 429, 2490-2508.	4.2	37
28	Predicting Protein Complex Structure from Surface-Induced Dissociation Mass Spectrometry Data. <i>ACS Central Science</i> , 2019, 5, 1330-1341.	11.3	37
29	Molecular Basis of Calcium-Sensitizing and Desensitizing Mutations of the Human Cardiac Troponin C Regulatory Domain: A Multi-Scale Simulation Study. <i>PLoS Computational Biology</i> , 2012, 8, e1002777.	3.2	36
30	Troponin I Mutations R146G and R21C Alter Cardiac Troponin Function, Contractile Properties, and Modulation by Protein Kinase A (PKA)-mediated Phosphorylation. <i>Journal of Biological Chemistry</i> , 2015, 290, 27749-27766.	3.4	36
31	Computer-Aided Drug Discovery Approach Finds Calcium Sensitizer of Cardiac Troponin. <i>Chemical Biology and Drug Design</i> , 2015, 85, 99-106.	3.2	36
32	Taxodione and arenarone inhibit farnesyl diphosphate synthase by binding to the isopentenyl diphosphate site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2530-9.	7.1	34
33	BCL::EM-Fit: Rigid body fitting of atomic structures into density maps using geometric hashing and real space refinement. <i>Journal of Structural Biology</i> , 2011, 175, 264-276.	2.8	33
34	Improved cryoEM-Guided Iterative Molecular Dynamics Rosetta Protein Structure Refinement Protocol for High Precision Protein Structure Prediction. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1337-1346.	5.3	33
35	Accurate protein structure prediction with hydroxyl radical protein footprinting data. <i>Nature Communications</i> , 2021, 12, 341.	12.8	31
36	Iterative Molecular Dynamics Rosetta Membrane Protein Structure Refinement Guided by Cryo-EM Densities. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5131-5145.	5.3	27

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37	Utility of Covalent Labeling Mass Spectrometry Data in Protein Structure Prediction with Rosetta. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3410-3424.	5.3	26
38	Discovery of Novel Small-Molecule Calcium Sensitizers for Cardiac Troponin C: A Combined Virtual and Experimental Screening Approach. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3648-3661.	5.4	25
39	Protein Structure Prediction from NMR Hydrogen-Deuterium Exchange Data. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2619-2629.	5.3	25
40	Successful Identification of Cardiac Troponin Calcium Sensitizers Using a Combination of Virtual Screening and ROC Analysis of Known Troponin C Binders. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 3056-3069.	5.4	24
41	Ab initio protein modeling into CryoEM density maps using EM-Fold. <i>Biopolymers</i> , 2012, 97, 669-677.	2.4	23
42	1,3-Dioxane-Linked Bacterial Topoisomerase Inhibitors with Enhanced Antibacterial Activity and Reduced hERG Inhibition. <i>ACS Infectious Diseases</i> , 2019, 5, 1115-1128.	3.8	23
43	Accurately Predicting Disordered Regions of Proteins Using Rosetta ResidueDisorder Application. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3920-3930.	2.6	22
44	Molecular Dynamics and Umbrella Sampling Simulations Elucidate Differences in Troponin C Isoform and Mutant Hydrophobic Patch Exposure. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7874-7883.	2.6	21
45	Utilization of Hydrophobic Microenvironment Sensitivity in Diethylpyrocarbonate Labeling for Protein Structure Prediction. <i>Analytical Chemistry</i> , 2021, 93, 8188-8195.	6.5	20
46	Using NMR Chemical Shifts and Cryo-EM Density Restraints in Iterative Rosetta-MD Protein Structure Refinement. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2522-2532.	5.4	19
47	In silico screening for Plasmodium falciparum enoyl-ACP reductase inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2015, 29, 79-87.	2.9	18
48	Molecular Effects of cTnC DCM Mutations on Calcium Sensitivity and Myofilament Activation: An Integrated Multiscale Modeling Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8264-8275.	2.6	18
49	Computational Studies of Cardiac and Skeletal Troponin. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 68.	3.5	18
50	Protein Structure Prediction with Mass Spectrometry Data. <i>Annual Review of Physical Chemistry</i> , 2022, 73, 1-19.	10.8	18
51	LigMerge: A Fast Algorithm to Generate Models of Novel Potential Ligands from Sets of Known Binders. <i>Chemical Biology and Drug Design</i> , 2012, 80, 358-365.	3.2	17
52	Comparison of dynamics of wildtype and V94M human UDP-galactose 4-epimerase: A computational perspective on severe epimerase-deficiency galactosemia. <i>Gene</i> , 2013, 526, 318-324.	2.2	17
53	Improving inverse docking target identification with Z-score selection. <i>Chemical Biology and Drug Design</i> , 2019, 93, 1105-1116.	3.2	17
54	Optimization of TopoIV Potency, ADMET Properties, and hERG Inhibition of 5-Amino-1,3-dioxane-Linked Novel Bacterial Topoisomerase Inhibitors: Identification of a Lead with In Vivo Efficacy against MRSA. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15214-15249.	6.4	16

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55	Effects of Cardiac Troponin I Mutation P83S on Contractile Properties and the Modulation by PKA-Mediated Phosphorylation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8238-8253.	2.6	15
56	Dioxane-Linked Amide Derivatives as Novel Bacterial Topoisomerase Inhibitors against Gram-Positive <i>Staphylococcus aureus</i> . <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 2446-2454.	2.8	15
57	A Molecular Dynamics Investigation of <i>Mycobacterium tuberculosis</i> Prenyl Synthases: Conformational Flexibility and Implications for Computer-Aided Drug Discovery. <i>Chemical Biology and Drug Design</i> , 2015, 85, 756-769.	3.2	14
58	Binding of calcium and magnesium to human cardiac troponin C. <i>Journal of Biological Chemistry</i> , 2021, 296, 100350.	3.4	13
59	Prediction of Protein Complex Structure Using Surface-Induced Dissociation and Cryo-Electron Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 7596-7605.	6.5	13
60	Measuring Intrinsic Disorder and Tracking Conformational Transitions Using Rosetta ResidueDisorder. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7103-7112.	2.6	12
61	Drug screening strategy for human membrane proteins: From NMR protein backbone structure to in silica- and NMR-screened hits. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 724-733.	2.1	11
62	Mechanism of Cardiac Troponin C Calcium Sensitivity Modulation by Small Molecules Illuminated by Umbrella Sampling Simulations. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 2964-2972.	5.4	11
63	Protein structure prediction using residue-resolved protection factors from hydrogen-deuterium exchange NMR. <i>Structure</i> , 2022, 30, 313-320.e3.	3.3	11
64	Dipeptide Aggregation in Aqueous Solution from Fixed Point-Charge Force Fields. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1631-1637.	5.3	10
65	Dynamics of <i>Plasmodium falciparum</i> enoyl-ACP reductase and implications on drug discovery. <i>Protein Science</i> , 2012, 21, 1734-1745.	7.6	9
66	Integrated Use of Biochemical, Native Mass Spectrometry, Computational, and Genome-Editing Methods to Elucidate the Mechanism of a deglycase. <i>Journal of Molecular Biology</i> , 2019, 431, 4497-4513.	4.2	9
67	Adaptative Steered Molecular Dynamics Study of Mutagenesis Effects on Calcium Affinity in the Regulatory Domain of Cardiac Troponin C. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 3052-3057.	5.4	9
68	Computational Methods Elucidate Consequences of Mutations and Post-translational Modifications on Troponin I Effective Concentration to Troponin C. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7388-7396.	2.6	8
69	Accounting for Neighboring Residue Hydrophobicity in Diethylpyrocarbonate Labeling Mass Spectrometry Improves Rosetta Protein Structure Prediction. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 584-591.	2.8	8
70	UDP-galactose 4-epimerase from the liver fluke, <i>Fasciola hepatica</i> : biochemical characterization of the enzyme and identification of inhibitors. <i>Parasitology</i> , 2015, 142, 463-472.	1.5	6
71	Validated determination of NRG1 Ig-like domain structure by mass spectrometry coupled with computational modeling. <i>Communications Biology</i> , 2022, 5, 452.	4.4	6
72	Identification of Novel Cyclin A2 Binding Site and Nanomolar Inhibitors of Cyclin A2-CDK2 Complex. <i>Current Computer-Aided Drug Design</i> , 2021, 17, 57-68.	1.2	4

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73	Simulation of Energy-Resolved Mass Spectrometry Distributions from Surface-Induced Dissociation. <i>Analytical Chemistry</i> , 2022, 94, 10506-10514.	6.5	2
74	Computational determination of the orientation of a heat repeat-like domain of DNA-PKcs. <i>Computational Biology and Chemistry</i> , 2013, 42, 1-4.	2.3	1