

# Tyler Luchko

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

975  
citations

623734

14  
h-index

713466

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

998  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Molecular Theory of Solvation Coupled with Molecular Dynamics in Amber. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 607-624.	5.3	232
2	An MM/3D-RISM Approach for Ligand Binding Affinities. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8505-8516.	2.6	129
3	Ion Counting from Explicit-Solvent Simulations and 3D-RISM. <i>Biophysical Journal</i> , 2014, 106, 883-894.	0.5	102
4	The evolution of the structure of tubulin and its potential consequences for the role and function of microtubules in cells and embryos. <i>International Journal of Developmental Biology</i> , 2006, 50, 341-358.	0.6	68
5	Simple electrolyte solutions: Comparison of DRISM and molecular dynamics results for alkali halide solutions. <i>Journal of Chemical Physics</i> , 2013, 138, 044103.	3.0	63
6	Identification and Characterization of an Intermediate Taxol Binding Site Within Microtubule Nanopores and a Mechanism for Tubulin Isotype Binding Selectivity. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 424-436.	5.4	60
7	Competitive interaction of monovalent cations with DNA from 3D-RISM. <i>Nucleic Acids Research</i> , 2015, 43, 8405-8415.	14.5	47
8	Conformational Analysis of the Carboxy-Terminal Tails of Human $\beta$ -Tubulin Isoforms. <i>Biophysical Journal</i> , 2008, 94, 1971-1982.	0.5	46
9	Structural Mass Spectrometry of the $\beta$ -Tubulin Dimer Supports a Revised Model of Microtubule Assembly. <i>Biochemistry</i> , 2009, 48, 4858-4870.	2.5	43
10	Molecular dynamics modeling of tubulin C-terminal tail interactions with the microtubule surface. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 2968-2982.	2.6	38
11	Characterization of an inhibitory dynamic pharmacophore for the ERCC1-XPA interaction using a combined molecular dynamics and virtual screening approach. <i>Journal of Molecular Graphics and Modelling</i> , 2009, 28, 113-130.	2.4	36
12	SAMPL5: 3D-RISM partition coefficient calculations with partial molar volume corrections and solute conformational sampling. <i>Journal of Computer-Aided Molecular Design</i> , 2016, 30, 1115-1127.	2.9	29
13	Closure for the Ornstein-Zernike equation with pressure and free energy consistency. <i>Physical Review E</i> , 2019, 99, 032130.	2.1	23
14	A molecular reconstruction approach to site-based 3D-RISM and comparison to GIST hydration thermodynamic maps in an enzyme active site. <i>PLoS ONE</i> , 2019, 14, e0219473.	2.5	22
15	Integral Equation Theory of Biomolecules and Electrolytes. <i>RSC Biomolecular Sciences</i> , 2012, , 51-86.	0.4	15
16	An online repository of solvation thermodynamic and structural maps of SARS-CoV-2 targets. <i>Journal of Computer-Aided Molecular Design</i> , 2020, 34, 1219-1228.	2.9	7
17	Integral equation models for solvent in macromolecular crystals. <i>Journal of Chemical Physics</i> , 2022, 156, 014801.	3.0	5
18	Accelerating the 3D reference interaction site model theory of molecular solvation with treecode summation and cutoffs. <i>Journal of Computational Chemistry</i> , 2022, 43, 1251-1270.	3.3	4

#	ARTICLE	IF	CITATIONS
19	Computational Analysis of Binding Interactions between the Ryanodine Receptor Type 2 and Calmodulin. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10720-10735.	2.6	3
20	Electron Paramagnetic Resonance Measurements of Four Nitroxide Probes in Supercooled Water Explained by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3962-3972.	2.6	1
21	Non-Gaussian statistics of the vibrational fluctuations of myoglobin and the thermal fluctuations of myoglobin hydration. , 2004, 5467, 1.		0