# Tyler Luchko

List of Publications by Year
in descending order



| 21 | 975 | 706676 14 | 799663 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 23 | 23 | 23 | 1141 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integral equation models for solvent in macromolecular crystals. Journal of Chemical Physics, 2022, 156, 014801. | 1.2 | 5 |
| 2 | Accelerating the 3D reference interaction site model theory of molecular solvation with treecode summation and cutâ€offs. Journal of Computational Chemistry, 2022, 43, 1251-1270. | 1.5 | 4 |
| 3 | Computational Analysis of Binding Interactions between the Ryanodine Receptor Type 2 and Calmodulin. Journal of Physical Chemistry B, 2021, 125, 10720-10735. | 1.2 | 3 |
| 4 | An online repository of solvation thermodynamic and structural maps of SARS-CoV-2 targets. Journal of Computer-Aided Molecular Design, 2020, 34, 1219-1228. | 1.3 | 7 |
| 5 | Electron Paramagnetic Resonance Measurements of Four Nitroxide Probes in Supercooled Water Explained by Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2020, 124, 3962-3972. | 1.2 | 1 |
| 6 | A molecular reconstruction approach to site-based 3D-RISM and comparison to GIST hydration thermodynamic maps in an enzyme active site. PLoS ONE, 2019, 14, e0219473. | 1.1 | 22 |
| 7 | Closure for the Ornstein-Zernike equation with pressure and free energy consistency. Physical Review E, 2019, 99, 032130. | 0.8 | 23 |
| 8 | SAMPL5: 3D-RISM partition coefficient calculations with partial molar volume corrections and solute conformational sampling. Journal of Computer-Aided Molecular Design, 2016, 30, 1115-1127. | 1.3 | 29 |
| 9 | Competitive interaction of monovalent cations with DNA from 3D-RISM. Nucleic Acids Research, 2015, 43, 8405-8415. | 6.5 | 47 |
| 10 | Ion Counting from Explicit-Solvent Simulations and 3D-RISM. Biophysical Journal, 2014, 106, 883-894. | 0.2 | 102 |
| 11 | Simple electrolyte solutions: Comparison of DRISM and molecular dynamics results for alkali halide solutions. Journal of Chemical Physics, 2013, 138, 044103. | 1.2 | 63 |
| 12 | Integral Equation Theory of Biomolecules and Electrolytes. RSC Biomolecular Sciences, 2012, , 51-86. | 0.4 | 15 |
| 13 | Molecular dynamics modeling of tubulin Câ€terminal tail interactions with the microtubule surface. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2968-2982. | 1.5 | 38 |
| 14 | Three-Dimensional Molecular Theory of Solvation Coupled with Molecular Dynamics in Amber. Journal of Chemical Theory and Computation, 2010, 6, 607-624. | 2.3 | 232 |
| 15 | An MM/3D-RISM Approach for Ligand Binding Affinities. Journal of Physical Chemistry B, 2010, 114, 8505-8516. | 1.2 | 129 |
| 16 | Characterization of an inhibitory dynamic pharmacophore for the ERCC1â€“XPA interaction using a combined molecular dynamics and virtual screening approach. Journal of Molecular Graphics and Modelling, 2009, 28, 113-130. | 1.3 | 36 |
| 17 | Identification and Characterization of an Intermediate Taxol Binding Site Within Microtubule Nanopores and a Mechanism for Tubulin Isotype Binding Selectivity. Journal of Chemical Information and Modeling, 2009, 49, 424-436. | 2.5 | 60 |
| 18 | Structural Mass Spectrometry of the Î±Î²-Tubulin Dimer Supports a Revised Model of Microtubule Assembly. Biochemistry, 2009, 48, 4858-4870. | 1.2 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Conformational Analysis of the Carboxy-Terminal Tails of Human Î²-Tubulin Isotypes. Biophysical Journal, 2008, 94, 1971-1982. | 0.2 | 46 |
| 20 | The evolution of the structure of tubulin and its potential consequences for the role and function of microtubules in cells and embryos. International Journal of Developmental Biology, 2006, 50, 341-358. | 0.3 | 68 |
| 21 | Non-Gaussian statistics of the vibrational fluctuations of myoglobin and the thermal fluctuations of myoglobin hydration. , 2004, 5467, 1. | | 0 |