# Joseph L Baker

List of Publications by Year
in descending order



| 24 | 743 | 759233 12 | 610901 24 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 27 | 27 | 27 | 1215 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Assessing the Stability of Biological Fibrils by Molecular-Scale Simulations. Methods in Molecular Biology, 2022, 2340, 357-378. | 0.9 | 1 |
| 2 | Unveiling molecular interactions that stabilize bacterial adhesion pili. Biophysical Journal, 2022, 121, 2096-2106. | 0.5 | 2 |
| 3 | Long-ranged heterogeneous structure in aqueous solutions of the deep eutectic solvent choline and geranate at the liquidâ€“vapor interface. Physical Chemistry Chemical Physics, 2022, 24, 13720-13729. | 2.8 | 3 |
| 4 | Impact of an alpha helix and a cysteineâ€“cysteine disulfide bond on the resistance of bacterial adhesion pili to stress. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 6 |
| 5 | Density, Enthalpy of Vaporization and Local Structure of Neat N-Alkane Liquids. Liquids, 2021, 1, 47-59. | 2.5 | 3 |
| 6 | Quantitative determination of mechanical stability in the novel coronavirus spike protein. Nanoscale, 2020, 12, 16409-16413. | 5.6 | 49 |
| 7 | Theory of Change to Practice: How Experimentalist Teaching Enabled Faculty to Navigate the COVID-19 Disruption. Journal of Chemical Education, 2020, 97, 2788-2792. | 2.3 | 8 |
| 8 | Characterization of Structural and Energetic Differences between Conformations of the SARS-CoV-2 Spike Protein. Materials, 2020, 13, 5362. | 2.9 | 46 |
| 9 | The ionic liquid [C<sub>4</sub>mpy][Tf<sub>2</sub>N] induces bound-like structure in the intrinsically disordered protein FlgM. Physical Chemistry Chemical Physics, 2019, 21, 17950-17958. | 2.8 | 7 |
| 10 | Scope and efficacy of the broad-spectrum topical antiseptic choline geranate. PLoS ONE, 2019, 14, e0222211. | 2.5 | 16 |
| 11 | Influence of an ionic liquid on the conformational sampling of Xaa-Pro dipeptides. Journal of Molecular Liquids, 2017, 227, 66-75. | 4.9 | 7 |
| 12 | Molecular simulations of lactose-bound and unbound forms of the FaeG adhesin reveal critical amino acids involved in sugar binding. Journal of Molecular Graphics and Modelling, 2016, 70, 100-108. | 2.4 | 3 |
| 13 | Cations Stiffen Actin Filaments by Adhering a Key Structural Element to Adjacent Subunits. Journal of Physical Chemistry B, 2016, 120, 4558-4567. | 2.6 | 39 |
| 14 | Electrostatic Interactions between the Bni1p Formin FH2 Domain and Actin Influence Actin Filament Nucleation. Structure, 2015, 23, 68-79. | 3.3 | 24 |
| 15 | Influence of the ionic liquid [C 4 mpy][Tf 2 N] on the structure of the miniprotein Trp-cage. Journal of Molecular Graphics and Modelling, 2015, 62, 202-212. | 2.4 | 10 |
| 16 | Effects of ATP and Actin-Filament Binding on the Dynamics of the Myosin II S1 Domain. Biophysical Journal, 2013, 105, 1624-1634. | 0.5 | 13 |
| 17 | Network visualization of conformational sampling during molecular dynamics simulation. Journal of Molecular Graphics and Modelling, 2013, 46, 140-149. | 2.4 | 11 |
| 18 | Steered Molecular Dynamics Simulations of a Type IV Pilus Probe Initial Stages of a Force-Induced Conformational Transition. PLoS Computational Biology, 2013, 9, e1003032. | 3.2 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Twelve Transmembrane Helices Form the Functional Core of Mammalian MATE1 (Multidrug and Toxin) Tj ETQq1 1 0.784314 rgBT /Overl | 3.4 | 40 |
| 20 | Simulations of substrate transport in the multidrug transporter EmrD. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1620-1632. | 2.6 | 20 |
| 21 | Probing late neutrino mass properties with supernova neutrinos. Physical Review D, 2007, 76, . | 4.7 | 15 |
| 22 | Quantitative PCR assays for mouse enteric flora reveal strain-dependent differences in composition that are influenced by the microenvironment. Mammalian Genome, 2006, 17, 1093-1104. | 2.2 | 124 |
| 23 | Nearest-Neighbor-Atom Core-Hole Transfer in Isolated Molecules. Physical Review Letters, 2004, 92, 223002. | 7.8 | 12 |
| 24 | Electroluminescent Zinc(II) Bis(8-hydroxyquinoline):Â Structural Effects on Electronic States and Device Performance. Journal of the American Chemical Society, 2002, 124, 6119-6125. | 13.7 | 260 |