

Joseph L Baker

List of Publications by Year in descending order

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docs citations

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1215
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#	ARTICLE	IF	CITATIONS
1	Electroluminescent Zinc(II) Bis(8-hydroxyquinoline): Structural Effects on Electronic States and Device Performance. <i>Journal of the American Chemical Society</i> , 2002, 124, 6119-6125.	13.7	260
2	Quantitative PCR assays for mouse enteric flora reveal strain-dependent differences in composition that are influenced by the microenvironment. <i>Mammalian Genome</i> , 2006, 17, 1093-1104.	2.2	124
3	Quantitative determination of mechanical stability in the novel coronavirus spike protein. <i>Nanoscale</i> , 2020, 12, 16409-16413.	5.6	49
4	Characterization of Structural and Energetic Differences between Conformations of the SARS-CoV-2 Spike Protein. <i>Materials</i> , 2020, 13, 5362.	2.9	46
5	Twelve Transmembrane Helices Form the Functional Core of Mammalian MATE1 (Multidrug and Toxin) Tj ETQq1 1 0,784314 rgBT /Over	3.4	48
6	Cations Stiffen Actin Filaments by Adhering a Key Structural Element to Adjacent Subunits. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4558-4567.	2.6	39
7	Electrostatic Interactions between the Bni1p Formin FH2 Domain and Actin Influence Actin Filament Nucleation. <i>Structure</i> , 2015, 23, 68-79.	3.3	24
8	Steered Molecular Dynamics Simulations of a Type IV Pilus Probe Initial Stages of a Force-Induced Conformational Transition. <i>PLoS Computational Biology</i> , 2013, 9, e1003032.	3.2	22
9	Simulations of substrate transport in the multidrug transporter EmrD. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1620-1632.	2.6	20
10	Scope and efficacy of the broad-spectrum topical antiseptic choline geranate. <i>PLoS ONE</i> , 2019, 14, e0222211.	2.5	16
11	Probing late neutrino mass properties with supernova neutrinos. <i>Physical Review D</i> , 2007, 76, .	4.7	15
12	Effects of ATP and Actin-Filament Binding on the Dynamics of the Myosin II S1 Domain. <i>Biophysical Journal</i> , 2013, 105, 1624-1634.	0.5	13
13	Nearest-Neighbor-Atom Core-Hole Transfer in Isolated Molecules. <i>Physical Review Letters</i> , 2004, 92, 223002.	7.8	12
14	Network visualization of conformational sampling during molecular dynamics simulation. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 46, 140-149.	2.4	11
15	Influence of the ionic liquid [C ₄ mpy][Tf ₂ N] on the structure of the miniprotein Trp-cage. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 62, 202-212.	2.4	10
16	Theory of Change to Practice: How Experimentalist Teaching Enabled Faculty to Navigate the COVID-19 Disruption. <i>Journal of Chemical Education</i> , 2020, 97, 2788-2792.	2.3	8
17	Influence of an ionic liquid on the conformational sampling of Xaa-Pro dipeptides. <i>Journal of Molecular Liquids</i> , 2017, 227, 66-75.	4.9	7
18	The ionic liquid [C ₄ mpy][Tf ₂ N] induces bound-like structure in the intrinsically disordered protein FlgM. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17950-17958.	2.8	7

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19	Impact of an alpha helix and a cysteine-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
20	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
21	Density, Enthalpy of Vaporization and Local Structure of Neat N-Alkane Liquids. Liquids, 2021, 1, 47-59.	2.5	3
22	Long-ranged heterogeneous structure in aqueous solutions of the deep eutectic solvent choline and geranate at the liquid-vapor interface. Physical Chemistry Chemical Physics, 2022, 24, 13720-13729.	2.8	3
23	Unveiling molecular interactions that stabilize bacterial adhesion pili. Biophysical Journal, 2022, 121, 2096-2106.	0.5	2
24	Assessing the Stability of Biological Fibrils by Molecular-Scale Simulations. Methods in Molecular Biology, 2022, 2340, 357-378.	0.9	1