

Madushanka Manathunga

List of Publications by Year in descending order

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15
papers

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840585

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21
all docs

21
docs citations

21
times ranked

514
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Synthesis, and Dynamics of a Green Fluorescent Protein Fluorophore Mimic with an Ultrafast Switching Function. <i>Journal of the American Chemical Society</i> , 2016, 138, 9807-9825.	6.6	44
2	Probing the Photodynamics of Rhodopsins with Reduced Retinal Chromophores. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 839-850.	2.3	43
3	Engineering the vibrational coherence of vision into a synthetic molecular device. <i>Nature Communications</i> , 2018, 9, 313.	5.8	41
4	Impact of Electronic State Mixing on the Photoisomerization Time Scale of the Retinal Chromophore. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5222-5227.	2.1	31
5	An Average Solvent Electrostatic Configuration Protocol for QM/MM Free Energy Optimization: Implementation and Application to Rhodopsin Systems. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6391-6404.	2.3	27
6	Parallel Implementation of Density Functional Theory Methods in the Quantum Interaction Computational Kernel Program. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4315-4326.	2.3	25
7	Electronic State Mixing Controls the Photoreactivity of a Rhodopsin with all- <i>trans</i> Chromophore Analogues. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6350-6355.	2.1	20
8	Quantum-classical simulations of rhodopsin reveal excited-state population splitting and its effects on quantum efficiency. <i>Nature Chemistry</i> , 2022, 14, 441-449.	6.6	20
9	ReaxFF/AMBER: A Framework for Hybrid Reactive/Nonreactive Force Field Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7645-7654.	2.3	19
10	Open-Source Multi-GPU-Accelerated QM/MM Simulations with AMBER and QUICK. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2109-2115.	2.5	19
11	On the Transition from a Biomimetic Molecular Switch to a Rotary Molecular Motor. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3875-3884.	2.1	15
12	Harnessing the Power of Multi-GPU Acceleration into the Quantum Interaction Computational Kernel Program. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3955-3966.	2.3	15
13	Computer-aided drug design, quantum-mechanical methods for biological problems. <i>Current Opinion in Structural Biology</i> , 2022, 75, 102417.	2.6	10
14	Computational and Spectroscopic Characterization of the Photocycle of an Artificial Rhodopsin. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4245-4252.	2.1	7
15	Free Energy Computation for an Isomerizing Chromophore in a Molecular Cavity via the Average Solvent Electrostatic Configuration Model: Applications in Rhodopsin and Rhodopsin-Mimicking Systems. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5885-5895.	2.3	5