

Matias R Machado

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

846
citations

759233

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996975

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17
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17
docs citations

17
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	The SIRAH-CoV-2 Initiative: A Coarse-Grained Simulations' Dataset of the SARS-CoV-2 Proteome. <i>Frontiers in Medical Technology</i> , 2021, 3, 644039.	2.5	12
2	CUTie2: The Attack of the Cyclic Nucleotide Sensor Clones. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 629773.	3.5	3
3	Fighting viruses with computers, right now. <i>Current Opinion in Virology</i> , 2021, 48, 91-99.	5.4	14
4	Wrapping Up Viruses at Multiscale Resolution: Optimizing PACKMOL and SIRAH Execution for Simulating the Zika Virus. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 408-422.	5.4	18
5	Split the Charge Difference in Two! A Rule of Thumb for Adding Proper Amounts of Ions in MD Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1367-1372.	5.3	56
6	Fat SIRAH: Coarse-Grained Phospholipids To Explore Membrane-Protein Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5674-5688.	5.3	36
7	From quantum to subcellular scales: multi-scale simulation approaches and the SIRAH force field. <i>Interface Focus</i> , 2019, 9, 20180085.	3.0	18
8	The SIRAH 2.0 Force Field: Altius, Fortius, Citius. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2719-2733.	5.3	109
9	FRET biosensor uncovers cAMP nano-domains at β -adrenergic targets that dictate precise tuning of cardiac contractility. <i>Nature Communications</i> , 2017, 8, 15031.	12.8	166
10	SIRAH tools: mapping, backmapping and visualization of coarse-grained models. <i>Bioinformatics</i> , 2016, 32, 1568-1570.	4.1	93
11	Exploring Lacl-DNA Dynamics by Multiscale Simulations Using the SIRAH Force Field. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5012-5023.	5.3	28
12	Assessing the Accuracy of the SIRAH Force Field to Model DNA at Coarse Grain Level. <i>Lecture Notes in Computer Science</i> , 2013, , 71-81.	1.3	18
13	Coarse-grained models of water. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 921-930.	14.6	35
14	Another Coarse Grain Model for Aqueous Solvation: WAT FOUR?. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3793-3807.	5.3	111
15	A Coarse Grained Model for Atomic-Detailed DNA Simulations with Explicit Electrostatics. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1711-1725.	5.3	127