

Matias R Machado

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

846
citations

759233

12
h-index

996975

15
g-index

17
all docs

17
docs citations

17
times ranked

969
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | FRET biosensor uncovers cAMP nano-domains at β^2 -adrenergic targets that dictate precise tuning of cardiac contractility. <i>Nature Communications</i> , 2017, 8, 15031. | 12.8 | 166 |
| 2 | 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 |
| 3 | Another Coarse Grain Model for Aqueous Solvation: WAT FOUR?. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3793-3807. | 5.3 | 111 |
| 4 | The SIRAH 2.0 Force Field: Altius, Fortius, Citius. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2719-2733. | 5.3 | 109 |
| 5 | SIRAH tools: mapping, backmapping and visualization of coarse-grained models. <i>Bioinformatics</i> , 2016, 32, 1568-1570. | 4.1 | 93 |
| 6 | 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 |
| 7 | 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 |
| 8 | Coarse-grained models of water. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 921-930. | 14.6 | 35 |
| 9 | Exploring LacDNA Dynamics by Multiscale Simulations Using the SIRAH Force Field. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5012-5023. | 5.3 | 28 |
| 10 | From quantum to subcellular scales: multi-scale simulation approaches and the SIRAH force field. <i>Interface Focus</i> , 2019, 9, 20180085. | 3.0 | 18 |
| 11 | 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 |
| 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 | Fighting viruses with computers, right now. <i>Current Opinion in Virology</i> , 2021, 48, 91-99. | 5.4 | 14 |
| 14 | 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 |
| 15 | CUTie2: The Attack of the Cyclic Nucleotide Sensor Clones. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 629773. | 3.5 | 3 |