Horacio V Guzman

List of Publications by Year
in descending order

14 papers	331 citations	1040056 9 h-index	1058476 14 g-index
18 all docs	18 docs citations	18 times ranked	473 citing authors

#	Article	IF	Citations
1	Quantitative determination of mechanical stability in the novel coronavirus spike protein. Nanoscale, 2020, 12, 16409-16413.	5.6	49
2	Peak Forces in High-Resolution Imaging of Soft Matter in Liquid. ACS Nano, 2013, 7, 3198-3204.	14.6	47
3	Characterization of Structural and Energetic Differences between Conformations of the SARS-CoV-2 Spike Protein. Materials, 2020, 13, 5362.	2.9	46
4	Dynamic force microscopy simulator (dForce): A tool for planning and understanding tapping and bimodal AFM experiments. Beilstein Journal of Nanotechnology, 2015, 6, 369-379.	2.8	32
5	Mechanical and thermodynamic properties of AÎ²₄₂, AÎ²₄₀, and Î±-synuclein fibrils: a coarse-grained method to complement experimental studies. Beilstein Journal of Nanotechnology, 2019, 10, 500-513.	2.8	30
6	ESPResSo++ 2.0: Advanced methods for multiscale molecular simulation. Computer Physics Communications, 2019, 238, 66-76.	7.5	30
7	Free Energies of the Disassembly of Viral Capsids from a Multiscale Molecular Simulation Approach. Journal of Chemical Information and Modeling, 2020, 60, 974-981.	5.4	24
8	Tuning Contact Angles of Aqueous Droplets on Hydrophilic and Hydrophobic Surfaces by Surfactants. Journal of Physical Chemistry B, 2022, 126, 3374-3384.	2.6	18
9	Structural 3D Domain Reconstruction of the RNA Genome from Viruses with Secondary Structure Models. Viruses, 2021, 13, 1555.	3.3	15
10	Peak forces and lateral resolution in amplitude modulation force microscopy in liquid. Beilstein Journal of Nanotechnology, 2013, 4, 852-859.	2.8	14
11	Scalable and fast heterogeneous molecular simulation with predictive parallelization schemes. Physical Review E, 2017, 96, 053311.	2.1	9
12	RNA Secondary Structures Regulate Adsorption of Fragments onto Flat Substrates. ACS Omega, 2021, 6, 32823-32831.	3.5	7
13	Scaling law to determine peak forces in tapping-mode AFM experiments on finite elastic soft matter systems. Beilstein Journal of Nanotechnology, 2017, 8, 968-974.	2.8	6
14	Assessing the Stability of Biological Fibrils by Molecular-Scale Simulations. Methods in Molecular Biology, 2022, 2340, 357-378.	0.9	1