

Eduardo R Cruz-ChÃ³

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,085
citations

687363

13
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1702
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-Silica Force Field for Simulating Nanodevices. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21497-21508.	2.6	283
2	Barriers to Superfast Water Transport in Carbon Nanotube Membranes. <i>Nano Letters</i> , 2013, 13, 1910-1914.	9.1	220
3	Ionic Current Rectification through Silica Nanopores. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1850-1862.	3.1	86
4	Structure and Response to Flow of the Glycocalyx Layer. <i>Biophysical Journal</i> , 2014, 106, 232-243.	0.5	70
5	The role of molecular modeling in bionanotechnology. <i>Physical Biology</i> , 2006, 3, S40-S53.	1.8	68
6	Electrically Induced Conformational Change of Peptides on Metallic Nanosurfaces. <i>ACS Nano</i> , 2012, 6, 8847-8856.	14.6	56
7	Sustaining dry surfaces under water. <i>Scientific Reports</i> , 2015, 5, 12311.	3.3	56
8	A comparative molecular dynamics-phase-field modeling approach to brittle fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 312, 117-129.	6.6	47
9	Molecular control of ionic conduction in polymer nanopores. <i>Faraday Discussions</i> , 2009, 143, 47.	3.2	45
10	Modeling transport through synthetic nanopores. <i>IEEE Nanotechnology Magazine</i> , 2009, 3, 20-28.	1.3	43
11	Computer Modeling in Biotechnology. <i>Methods in Molecular Biology</i> , 2008, 474, 181-234.	0.9	26
12	Dynamic Influences on a High-Affinity, High-Specificity Interaction Involving the C-Terminal SH3 Domain of p67phox. <i>Biochemistry</i> , 2004, 43, 8094-8106.	2.5	21
13	On phonons and water flow enhancement in carbon nanotubes. <i>Nature Nanotechnology</i> , 2017, 12, 1106-1108.	31.5	19
14	Computational Microscopy of the Role of Protonable Surface Residues in Nanoprecipitation Oscillations. <i>ACS Nano</i> , 2010, 4, 4463-4474.	14.6	13
15	Water Flow in Silica Nanopores Coated by Carbon Nanotubes from a Wetting Translucency Perspective. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25635-25642.	3.1	11
16	Mechanical characterization and induced crystallization in nanocomposites of thermoplastics and carbon nanotubes. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	8
17	Selecting XFEL single-particle snapshots by geometric machine learning. <i>Structural Dynamics</i> , 2021, 8, 014701.	2.3	7
18	Organic Filling Mitigates Flaw-Sensitivity of Nanoscale Aragonite. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 260-268.	5.2	5

#	ARTICLE	IF	CITATIONS
19	A combined molecular dynamicsâ€phaseâ€field modelling approach to fracture. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 139-140.	0.2	1
20	Stress-Induced Lamellar Order in Spider Silk Fibers. Biophysical Journal, 2015, 108, 487a.	0.5	0