

Rafael I Gonzalez

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

319
citations

11
h-index

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g-index

37
ext. papers

407
ext. citations

5
avg, IF

3.33
L-index

#	Paper	IF	Citations
35	Dispersion of carbon nanotubes in aluminum improves radiation resistance. <i>Nano Energy</i> , 2016 , 22, 319-327	3.7	39
34	Model for Self-Rolling of an Aluminosilicate Sheet into a Single-Walled Imogolite Nanotube. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28227-28233	3.8	23
33	Ion implantation in nanodiamonds: size effect and energy dependence. <i>Scientific Reports</i> , 2018 , 8, 5099	4.9	20
32	Hydrogen Storage in Palladium Hollow Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23836-23841	3.8	20
31	Bending energy of 2D materials: graphene, MoS and imogolite.. <i>RSC Advances</i> , 2018 , 8, 4577-4583	3.7	19
30	Advancements in the Synthesis of Building Block Materials: Experimental Evidence and Modeled Interpretations of the Effect of Na and K on Imogolite Synthesis. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12658-12668	3.8	15
29	Confinement effects in irradiation of nanocrystalline diamond. <i>Carbon</i> , 2015 , 93, 458-464	10.4	14
28	Mechanical Properties Obtained by Indentation of Hollow Pd Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25035-25042	3.8	14
27	Formation of Hollow Gold Nanocrystals by Nanosecond Laser Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 670-677	6.4	13
26	Hematene: a 2D magnetic material in van der Waals or non-van der Waals heterostructures. <i>2D Materials</i> , 2019 , 6, 045002	5.9	12
25	Effect of the Generation of PAMAM Dendrimers on the Stabilization of Gold Nanoparticles. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 2966-2976	6.1	11
24	Mechanical Response of Aluminosilicate Nanotubes under Compression. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14428-14434	3.8	11
23	Magnon valley Hall effect in CrI ₃ -based van der Waals heterostructures. <i>Physical Review B</i> , 2020 , 101,	3.3	10
22	Nanoindentation of Amorphous Carbon: a combined experimental and simulation approach. <i>Acta Materialia</i> , 2021 , 203, 116485	8.4	10
21	Hillock formation on nanocrystalline diamond. <i>Carbon</i> , 2017 , 119, 219-224	10.4	8
20	Toward Controlled Morphology of FeCu Nanoparticles: Cu Concentration and Size Effects. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8528-8534	3.8	8
19	Molecular dynamics simulation of polymerlike thin films irradiated by fast ions: A comparison between FENE and Lennard-Jones potentials. <i>Physical Review B</i> , 2016 , 94,	3.3	7

18	Metal-nanotube composites as radiation resistant materials. <i>Applied Physics Letters</i> , 2016 , 109, 033108	3.4	7
17	Molecular simulations of carbon allotropes in processes with creation and destruction of chemical bonds. <i>Carbon</i> , 2019 , 144, 177-184	10.4	7
16	Mechanical performance of lightweight polycrystalline Ni nanotubes. <i>Computational Materials Science</i> , 2019 , 168, 81-86	3.2	6
15	Temperature-dependent properties of 147- and 309-atom iron-gold nanoclusters. <i>Physical Review B</i> , 2011 , 83,	3.3	6
14	Inducing Porosity on Hollow Nanoparticles by Hypervelocity Impacts. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17856-17861	3.8	5
13	Coaxial nanocable composed by imogolite and carbon nanotubes 2015 ,		5
12	Simulated mechanical properties of finite-size graphene nanoribbons. <i>Nanotechnology</i> , 2021 , 32, 045709	3.4	5
11	Surface states of FeF ₂ (110) and its uncompensated magnetization. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 393, 226-232	2.8	4
10	Growth of Ni nanoclusters on irradiated graphene: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16347-16353	3.6	4
9	Self-rolling of an aluminosilicate sheet into a single walled imogolite nanotube: The role of the hydroxyl arrangement 2015 ,		4
8	Imogolite in water: Simulating the effects of nanotube curvature on structure and dynamics. <i>Applied Clay Science</i> , 2020 , 191, 105582	5.2	3
7	Collisions between amorphous carbon nanoparticles: phase transformations. <i>Astronomy and Astrophysics</i> , 2020 , 641, A159	5.1	3
6	Thermal stability of aluminum oxide nanoparticles: role of oxygen concentration. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1701-1706	6.8	2
5	Role of the substrate dynamics: Iron clusters deposited on an iron slab. <i>Surface Science</i> , 2011 , 605, 2061-2066	2.66	2
4	Polycrystalline Ni nanotubes under compression: a molecular dynamics study. <i>Scientific Reports</i> , 2020 , 10, 21096	4.9	1
3	Simulations of plasticity in diamond nanoparticles showing ultrahigh strength. <i>Diamond and Related Materials</i> , 2022 , 126, 109109	3.5	1
2	Nanoindentation of nanoporous tungsten: A molecular dynamics approach. <i>Computational Materials Science</i> , 2022 , 209, 111336	3.2	0
1	Nanoparticle Shape Influence over Poly(lactic acid) Barrier Properties by Molecular Dynamics Simulations.. <i>ACS Omega</i> , 2022 , 7, 2583-2590	3.9	

