

# Rafael I Gonzalez

## List of Publications by Year in Descending Order

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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

15  
g-index

37  
ext. papers

407  
ext. citations

5  
avg, IF

3.33  
L-index

#	Paper	IF	Citations
35	Nanoparticle Shape Influence over Poly(lactic acid) Barrier Properties by Molecular Dynamics Simulations.. <i>ACS Omega</i> , <b>2022</b> , 7, 2583-2590	3.9	
34	Nanoindentation of nanoporous tungsten: A molecular dynamics approach. <i>Computational Materials Science</i> , <b>2022</b> , 209, 111336	3.2	0
33	Simulations of plasticity in diamond nanoparticles showing ultrahigh strength. <i>Diamond and Related Materials</i> , <b>2022</b> , 126, 109109	3.5	1
32	Simulated mechanical properties of finite-size graphene nanoribbons. <i>Nanotechnology</i> , <b>2021</b> , 32, 045709	3.4	5
31	Nanoindentation of Amorphous Carbon: a combined experimental and simulation approach. <i>Acta Materialia</i> , <b>2021</b> , 203, 116485	8.4	10
30	Imogolite in water: Simulating the effects of nanotube curvature on structure and dynamics. <i>Applied Clay Science</i> , <b>2020</b> , 191, 105582	5.2	3
29	Effect of the Generation of PAMAM Dendrimers on the Stabilization of Gold Nanoparticles. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 2966-2976	6.1	11
28	Magnon valley Hall effect in CrI3-based van der Waals heterostructures. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	10
27	Collisions between amorphous carbon nanoparticles: phase transformations. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 641, A159	5.1	3
26	Formation of Hollow Gold Nanocrystals by Nanosecond Laser Irradiation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 670-677	6.4	13
25	Polycrystalline Ni nanotubes under compression: a molecular dynamics study. <i>Scientific Reports</i> , <b>2020</b> , 10, 21096	4.9	1
24	Mechanical performance of lightweight polycrystalline Ni nanotubes. <i>Computational Materials Science</i> , <b>2019</b> , 168, 81-86	3.2	6
23	Hematene: a 2D magnetic material in van der Waals or non-van der Waals heterostructures. <i>2D Materials</i> , <b>2019</b> , 6, 045002	5.9	12
22	Thermal stability of aluminum oxide nanoparticles: role of oxygen concentration. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1701-1706	6.8	2
21	Molecular simulations of carbon allotropes in processes with creation and destruction of chemical bonds. <i>Carbon</i> , <b>2019</b> , 144, 177-184	10.4	7
20	Growth of Ni nanoclusters on irradiated graphene: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16347-16353	3.6	4
19	Bending energy of 2D materials: graphene, MoS and imogolite.. <i>RSC Advances</i> , <b>2018</b> , 8, 4577-4583	3.7	19

18	Toward Controlled Morphology of FeCu Nanoparticles: Cu Concentration and Size Effects. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8528-8534	3.8	8
17	Ion implantation in nanodiamonds: size effect and energy dependence. <i>Scientific Reports</i> , <b>2018</b> , 8, 5099	4.9	20
16	Mechanical Properties Obtained by Indentation of Hollow Pd Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 25035-25042	3.8	14
15	Hillock formation on nanocrystalline diamond. <i>Carbon</i> , <b>2017</b> , 119, 219-224	10.4	8
14	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> , <b>2017</b> , 121, 12658-12668	3.8	15
13	Inducing Porosity on Hollow Nanoparticles by Hypervelocity Impacts. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 17856-17861	3.8	5
12	Molecular dynamics simulation of polymerlike thin films irradiated by fast ions: A comparison between FENE and Lennard-Jones potentials. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	7
11	Mechanical Response of Aluminosilicate Nanotubes under Compression. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 14428-14434	3.8	11
10	Dispersion of carbon nanotubes in aluminum improves radiation resistance. <i>Nano Energy</i> , <b>2016</b> , 22, 319-327	3.7	39
9	Metal-nanotube composites as radiation resistant materials. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 033108	3.4	7
8	Hydrogen Storage in Palladium Hollow Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23836-23841	3.8	20
7	Surface states of FeF <sub>2</sub> (110) and its uncompensated magnetization. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 393, 226-232	2.8	4
6	Self-rolling of an aluminosilicate sheet into a single walled imogolite nanotube: The role of the hydroxyl arrangement <b>2015</b> ,		4
5	Coaxial nanocable composed by imogolite and carbon nanotubes <b>2015</b> ,		5
4	Confinement effects in irradiation of nanocrystalline diamond. <i>Carbon</i> , <b>2015</b> , 93, 458-464	10.4	14
3	Model for Self-Rolling of an Aluminosilicate Sheet into a Single-Walled Imogolite Nanotube. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28227-28233	3.8	23
2	Role of the substrate dynamics: Iron clusters deposited on an iron slab. <i>Surface Science</i> , <b>2011</b> , 605, 2061-2066	2.66	2
1	Temperature-dependent properties of 147- and 309-atom iron-gold nanoclusters. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	6

