

# Andre Muniz

## 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.

47  
papers

750  
citations

17  
h-index

26  
g-index

52  
ext. papers

924  
ext. citations

5  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
47	Reduction-Driven 3D to 2D Transformation of Cu Nanoparticles.. <i>Small</i> , <b>2022</b> , e2106583	11	2
46	Molecular dynamics study of the effects of static and oscillating electric fields in ovalbumin. <i>Innovative Food Science and Emerging Technologies</i> , <b>2022</b> , 75, 102911	6.8	4
45	Reduction-Driven 3D to 2D Transformation of Cu Nanoparticles (Small 7/2022). <i>Small</i> , <b>2022</b> , 18, 2270032	11	1
44	Strain-Tunable Carbon Nanothread-Derived Membranes for Water Desalination. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 7311-7319	3.4	4
43	The effect of subgrid-scale modeling on LES of turbulent coaxial jets. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2021</b> , 43, 1	2	0
42	Experimental and DFT analysis of the acid and reduction properties of Fe-Cu/ZSM-5. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 314, 110860	5.3	1
41	Molecular-Dynamics Simulations on Nanoindentation of Graphene-Diamond Composite Superstructures in Interlayer-Bonded Twisted Bilayer Graphene: Implications for Mechanical Metamaterials. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8611-8625	5.6	2
40	First-principles study of carbon nanothreads derived from five-membered heterocyclic rings: thiophene, furan and pyrrole. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 2055-2062	3.6	7
39	Unveiling the Origin of the Giant Barocaloric Effect in Natural Rubber. <i>Macromolecules</i> , <b>2020</b> , 53, 2606-2615	6.5	2
38	Nature of the interactions between Fe and Zr for the methane dehydroaromatization reaction in ZSM-5. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1220, 128720	3.4	1
37	Molecular-Dynamics Analysis of Nanoindentation of Graphene Nanomeshes: Implications for 2D Mechanical Metamaterials. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3613-3624	5.6	3
36	Prediction of $\beta$ -P and $\beta'$ P: Two New Strain-Interconvertible Phosphorene Allotropes. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 21207-21214	3.8	5
35	Peering into the Formation of Template-Free Hierarchical Flowerlike Nanostructures of SrTiO. <i>ACS Omega</i> , <b>2020</b> , 5, 33007-33016	3.9	2
34	Electronic and Mechanical Properties of Partially Saturated Carbon and Carbon Nitride Nanothreads. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3886-3891	3.8	18
33	Flexible carbon nanothread-based membranes with strain-dependent gas transport properties. <i>Journal of Membrane Science</i> , <b>2019</b> , 585, 184-190	9.6	2
32	Structure-properties relations in graphene derivatives and metamaterials obtained by atomic-scale modeling. <i>Molecular Simulation</i> , <b>2019</b> , 45, 1173-1202	2	5
31	Fluorescence Based Platform to Discriminate Protein Using Carbon Quantum Dots. <i>ChemistrySelect</i> , <b>2019</b> , 4, 5619-5627	1.8	8

30	Chain- and chainmail-like nanostructures from carbon nanotube rings. <i>Computational Materials Science</i> , <b>2019</b> , 161, 76-82	3.2	3
29	Nanoporous carbon superstructures based on covalent bonding of porous fullerenes. <i>Carbon</i> , <b>2018</b> , 130, 424-432	10.4	7
28	An open and extensible sigma-profile database for COSMO-based models. <i>AIChE Journal</i> , <b>2018</b> , 64, 3443-3455	3.4	28
27	Diamond nanothread-based 2D and 3D materials: Diamond nanomeshes and nanofoams. <i>Carbon</i> , <b>2018</b> , 139, 789-800	10.4	13
26	Thermal annealing of graphite oxide under high pressure: An experimental and computational study. <i>Carbon</i> , <b>2018</b> , 139, 1035-1047	10.4	5
25	Formation and Mechanical Behavior of Nanocomposite Superstructures from Interlayer Bonding in Twisted Bilayer Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28898-28908	9.5	20
24	Carbon nanothreads from polycyclic aromatic hydrocarbon molecules. <i>Carbon</i> , <b>2018</b> , 140, 644-652	10.4	18
23	Functionalized diamond nanothreads from benzene derivatives. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 7132-7137	3.6	42
22	Experimental and computational analysis of carbon molecular sieve membrane formation upon polyetherimide pyrolysis. <i>Carbon</i> , <b>2017</b> , 119, 21-29	10.4	24
21	First-principles calculation of the mechanical properties of diamond nanothreads. <i>Carbon</i> , <b>2017</b> , 113, 260-265	10.4	40
20	Tuning the band structure of graphene nanoribbons through defect-interaction-driven edge patterning. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	4
19	Elucidation of deactivation phenomena in cobalt catalyst for Fischer-Tropsch synthesis using SSITKA. <i>Journal of Catalysis</i> , <b>2016</b> , 344, 669-679	7.3	23
18	EVALUATION OF BIOMASS AND COAL CO-GASIFICATION OF BRAZILIAN FEEDSTOCK USING A CHEMICAL EQUILIBRIUM MODEL. <i>Brazilian Journal of Chemical Engineering</i> , <b>2016</b> , 33, 401-414	1.7	8
17	Mechanical properties of hydrogenated electron-irradiated graphene. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 124301	2.5	11
16	Carbon-Based Nanostructures Derived from Bilayer Graphene with Zero Thermal Expansion Behavior. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 17458-17465	3.8	13
15	Mechanical behavior of interlayer-bonded nanostructures obtained from bilayer graphene. <i>Carbon</i> , <b>2015</b> , 81, 663-677	10.4	45
14	Mechanical behavior and fracture of graphene nanomeshes. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 024302.5	3.5	23
13	Elastic properties of graphene nanomeshes. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 141911	3.4	33

12	Ab initio studies of thermodynamic and electronic properties of phosphorene nanoribbons. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	112
11	Superlattices of Fluorinated Interlayer-Bonded Domains in Twisted Bilayer Graphene. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 7315-7325	3.8	34
10	Tunable mechanical properties of diamond superlattices generated by interlayer bonding in twisted bilayer graphene. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 013113	3.4	30
9	Opening and tuning of band gap by the formation of diamond superlattices in twisted bilayer graphene. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	46
8	Formation of fullerene superlattices by interlayer bonding in twisted bilayer graphene. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 043513	2.5	28
7	Hydrogenation effects on the structure and morphology of graphene and single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 113532	2.5	11
6	On the hydrogen storage capacity of carbon nanotube bundles. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 163111	3.4	17
5	Analysis of diamond nanocrystal formation from multiwalled carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	17
4	Effects of hydrogen chemisorption on the structure and deformation of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 103108	3.4	20
3	High-order finite volume method for solving viscoelastic fluid flows. <i>Brazilian Journal of Chemical Engineering</i> , <b>2008</b> , 25, 153-166	1.7	5
2	Análise teórico-experimental da dispersão de poluentes líquidos em solos. <i>Engenharia Sanitaria E Ambiental</i> , <b>2007</b> , 12, 410-416	0.4	2
1	Uma nova metodologia para a simulação de escoamentos de fluidos viscoelásticos. <i>Polimeros</i> , <b>2005</b> , 15, 53-58	1.6	1