

Aaron Morelos-Gomez

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.

52
papers

1,763
citations

21
h-index

41
g-index

52
ext. papers

2,036
ext. citations

8.8
avg. IF

4.27
L-index

#	Paper	IF	Citations
52	Antifouling performance of spiral wound type module made of carbon nanotubes/polyamide composite RO membrane for seawater desalination. <i>Desalination</i> , 2022 , 523, 115445	10.3	4
51	Nitrogen and Sulfur Incorporation into Graphene Oxide by Mechanical Process. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001444	3.5	0
50	Tuning the electronic and magnetic properties of graphene nanoribbons through phosphorus doping and functionalization. <i>Materials Chemistry and Physics</i> , 2021 , 265, 124450	4.4	3
49	Nitrogen-phosphorus doped graphitic nano onion-like structures: experimental and theoretical studies.. <i>RSC Advances</i> , 2021 , 11, 2793-2803	3.7	4
48	Graphene oxide membranes for lactose-free milk. <i>Carbon</i> , 2021 , 181, 118-129	10.4	5
47	Hybrid materials based on pyrrhotite, troilite, and few-layered graphitic nanostructures: Synthesis, characterization, and cyclic voltammetry studies. <i>Applied Surface Science</i> , 2021 , 563, 150327	6.7	0
46	Nanocomposite desalination membranes made of aromatic polyamide with cellulose nanofibers: synthesis, performance, and water diffusion study. <i>Nanoscale</i> , 2020 , 12, 19628-19637	7.7	11
45	Pyrrholic nitrogen-doped multiwall carbon nanotubes using ball-milled slag-SiC mixtures as a catalyst by aerosol assisted chemical vapor deposition. <i>Materials Research Express</i> , 2020 ,	1.7	3
44	Enhanced desalination performance in compacted carbon-based reverse osmosis membranes. <i>Nanoscale Advances</i> , 2020 , 2, 3444-3451	5.1	2
43	Enhanced Antifouling Feed Spacer Made from a Carbon Nanotube-Polypropylene Nanocomposite. <i>ACS Omega</i> , 2019 , 4, 15496-15503	3.9	9
42	Defect Engineering and Surface Functionalization of Nanocarbons for Metal-Free Catalysis. <i>Advanced Materials</i> , 2019 , 31, e1805717	24	88
41	New Insights in the Natural Organic Matter Fouling Mechanism of Polyamide and Nanocomposite Multiwalled Carbon Nanotubes-Polyamide Membranes. <i>Environmental Science & Technology</i> , 2019 , 53, 6255-6263	10.3	27
40	Catalytic Nanocarbons: Defect Engineering and Surface Functionalization of Nanocarbons for Metal-Free Catalysis (Adv. Mater. 13/2019). <i>Advanced Materials</i> , 2019 , 31, 1970096	24	2
39	Water Diffusion Mechanism in Carbon Nanotube and Polyamide Nanocomposite Reverse Osmosis Membranes: A Possible Percolation-Hopping Mechanism. <i>Physical Review Applied</i> , 2018 , 9,	4.3	16
38	Robust water desalination membranes against degradation using high loads of carbon nanotubes. <i>Scientific Reports</i> , 2018 , 8, 2748	4.9	32
37	H ₂ O ₂ /UV layer-by-layer oxidation of multiwall carbon nanotubes: The onion effect and the control of the degree of surface crystallinity and diameter. <i>Carbon</i> , 2018 , 139, 1027-1034	10.4	5
36	Effective Antiscaling Performance of Reverse-Osmosis Membranes Made of Carbon Nanotubes and Polyamide Nanocomposites. <i>ACS Omega</i> , 2018 , 3, 6047-6055	3.9	21

35	Salt rejection behavior of carbon nanotube-polyamide nanocomposite reverse osmosis membranes in several salt solutions. <i>Desalination</i> , 2018 , 443, 165-171	10.3	23
34	Effective NaCl and dye rejection of hybrid graphene oxide/graphene layered membranes. <i>Nature Nanotechnology</i> , 2017 , 12, 1083-1088	28.7	227
33	Antiorganic Fouling and Low-Protein Adhesion on Reverse-Osmosis Membranes Made of Carbon Nanotubes and Polyamide Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32192-32201	9.5	32
32	Oil removing properties of exfoliated graphite in actual produced water treatment. <i>Journal of Water Process Engineering</i> , 2017 , 20, 226-231	6.7	17
31	Correlation in structure and properties of highly-porous graphene monoliths studied with a thermal treatment method. <i>Carbon</i> , 2016 , 96, 174-183	10.4	31
30	Electrically functional 3D-architected graphene/SiC composites. <i>Carbon</i> , 2016 , 100, 318-328	10.4	69
29	High Performance and Chlorine Resistant Carbon Nanotube/Aromatic Polyamide Reverse Osmosis Nanocomposite Membrane. <i>MRS Advances</i> , 2016 , 1, 1469-1476	0.7	10
28	Nanostructured carbon-based membranes: nitrogen doping effects on reverse osmosis performance. <i>NPG Asia Materials</i> , 2016 , 8, e258-e258	10.3	12
27	Biotin molecules on nitrogen-doped carbon nanotubes enhance the uniform anchoring and formation of Ag nanoparticles. <i>Carbon</i> , 2015 , 88, 51-59	10.4	9
26	Oil sorption by exfoliated graphite from dilute oil/water emulsion for practical applications in produced water treatments. <i>Journal of Water Process Engineering</i> , 2015 , 8, 91-98	6.7	20
25	High-performance multi-functional reverse osmosis membranes obtained by carbon nanotube/polyamide nanocomposite. <i>Scientific Reports</i> , 2015 , 5, 13562	4.9	81
24	Directional Electrical Transport in Tough Multifunctional Layered Ceramic/Graphene Composites. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500132	6.4	6
23	3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties. <i>Advanced Functional Materials</i> , 2015 , 25, 4985-4993	15.6	14
22	Magnetic and Electrical Properties of Nitrogen-Doped Multiwall Carbon Nanotubes Fabricated by a Modified Chemical Vapor Deposition Method. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-14	3.2	7
21	Aligned carbon nanotube/silicon carbide hybrid materials with high electrical conductivity, superhydrophobicity and superoleophilicity. <i>Carbon</i> , 2014 , 80, 120-126	10.4	21
20	Super-stretchable graphene oxide macroscopic fibers with outstanding knotability fabricated by dry film scrolling. <i>ACS Nano</i> , 2014 , 8, 5959-67	16.7	150
19	Synthesis, Characterization and Magnetic Properties of Defective Nitrogen-Doped Multiwall Carbon Nanotubes Encapsulating Ferromagnetic Nanoparticles. <i>Journal of Nano Research</i> , 2014 , 28, 39-49	1	2
18	Nitrogen-doped-CNTs/Si ₃ N ₄ nanocomposites with high electrical conductivity. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1097-1104	6	11

17	CO ₂ adsorption on crystalline graphitic nanostructures. <i>Journal of CO₂ Utilization</i> , 2014 , 5, 60-65	7.6	14
16	Metal-semiconductor transition like behavior of naphthalene-doped single wall carbon nanotube bundles. <i>Faraday Discussions</i> , 2014 , 173, 145-56	3.6	4
15	Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping. <i>Advanced Functional Materials</i> , 2014 , 24, 2612-2619	15.6	20
14	Conducting linear chains of sulphur inside carbon nanotubes. <i>Nature Communications</i> , 2013 , 4, 2162	17.4	176
13	Synthesis of conducting graphene/Si ₃ N ₄ composites by spark plasma sintering. <i>Carbon</i> , 2013 , 57, 425-432	20.4	72
12	Large area films of alternating graphene-carbon nanotube layers processed in water. <i>ACS Nano</i> , 2013 , 7, 10788-98	16.7	73
11	Boron-assisted coalescence of parallel multi-walled carbon nanotubes. <i>RSC Advances</i> , 2013 , 3, 26266	3.7	5
10	Formation of nitrogen-doped graphene nanoribbons via chemical unzipping. <i>ACS Nano</i> , 2013 , 7, 2192-2046	16.7	61
9	Modified Carbon Nanotubes 2013 , 189-232		2
8	Ultra-high Molecular Weight Polyethylene /Graphite Nanocomposites Prepared by High-energy Cryomilling. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1453, 82		
7	Clean nanotube unzipping by abrupt thermal expansion of molecular nitrogen: graphene nanoribbons with atomically smooth edges. <i>ACS Nano</i> , 2012 , 6, 2261-72	16.7	48
6	Millimeter-long carbon nanotubes: outstanding electron-emitting sources. <i>ACS Nano</i> , 2011 , 5, 5072-7	16.7	44
5	Magnetic properties of encapsulated nanoparticles in nitrogen-doped multiwalled carbon nanotubes embedded in SiO _x matrices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5576-82	1.3	5
4	Controlling high coercivities of ferromagnetic nanowires encapsulated in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5906		54
3	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. <i>Chemical Physics Letters</i> , 2009 , 469, 177-182	2.5	147
2	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. <i>Chemical Physics Letters</i> , 2008 , 453, 55-61	2.5	64
1	Data Science Applied to Carbon Materials: Synthesis, Characterization, and Applications. <i>Advanced Theory and Simulations</i> , 2100205	3.5	0