Edgar Muoz

List of Publications by Citations

45 papers	4,080 citations	20 h-index	47 g-index
47 ext. papers	4,420 ext. citations	8.1 avg, IF	4.56 L-index

#	Paper	IF	Citations
45	Super-tough carbon-nanotube fibres. *Nature*, **2003**, 423, 703	50.4	1256
44	FTIR study of the evolution of coal structure during the coalification process. *Organic Geochemistry*, **1996**, 24, 725-735	3.1	575
43	Controlled assembly of carbon nanotubes by designed amphiphilic Peptide helices. *Journal of the American Chemical Society*, **2003**, 125, 1770-7	16.4	439
42	Fabrication and characterization of thin films of single-walled carbon nanotube bundles on flexible plastic substrates. *Journal of the American Chemical Society*, **2004**, 126, 4462-3	16.4	333
41	V2O5 nanofibre sheet actuators. *Nature Materials*, **2003**, 2, 316-9	27	230
40	Improving the mechanical properties of single-walled carbon nanotube sheets by intercalation of polymeric adhesives. *Applied Physics Letters*, **2003**, 82, 1682-1684	3.4	227
39	Continuous carbon nanotube composite fibers: properties, potential applications, and problems. *Journal of Materials Chemistry*, **2004**, 14, 1		203
38	Carbon nanotube networks as gas sensors for NO2 detection. *Talanta*, **2008**, 77, 758-764	6.2	100
37	Simultaneous Reduction of Graphene Oxide and Polyaniline: Doping-Assisted Formation of a Solid-State Charge-Transfer Complex. *Journal of Physical Chemistry C*, **2011**, 115, 10468-10474	3.8	97
36	Novel selective sensors based on carbon nanotube films for hydrogen detection. *Sensors and Actuators B: Chemical*, **2007**, 122, 75-80	8.5	84
35	Graphene oxide as sensitive layer in Love-wave surface acoustic wave sensors for the detection of chemical warfare agent simulants. *Talanta*, **2016**, 148, 393-400	6.2	63
34	Arbitrarily Shaped Fiber Assemblies from Spun Carbon Nanotube Gel Fibers. *Advanced Functional Materials*, **2007**, 17, 2918-2924	15.6	50
33	Carbon nanotube growth on cobalt-sprayed substrates by thermal CVD. *Materials Science and Engineering C*, **2006**, 26, 1185-1188	8.3	40
32	Aligned carbon nanotubes grown on alumina and quartz substrates by a simple thermal CVD process. *Diamond and Related Materials*, **2006**, 15, 1059-1063	3.5	32
31	Laser synthesis and luminescence properties of SrAl2O4:Eu2+, Dy3+ phosphors. *Journal of the European Ceramic Society*, **2012**, 32, 4363-4369	6	30
30	Synthesis and application of gold-carbon hybrids as catalysts for the hydroamination of alkynes. *Applied Catalysis A: General*, **2013**, 456, 88-95	5.1	28
29	Electrochemically Tuned Properties for Electrolyte-Free Carbon Nanotube Sheets. *Advanced Functional Materials*, **2009**, 19, 2266-2272	15.6	25

28	Gold/carbon nanocomposite foam. *Chemical Physics Letters*, **2006**, 420, 86-89	2.5	23
27	Toxicity of Carbon Nanomaterials and Their Potential Application as Drug Delivery Systems: In Vitro Studies in Caco-2 and MCF-7 Cell Lines. *Nanomaterials*, **2020**, 10,	5.4	23
26	Carbon nanofibers modified with heteroatoms as metal-free catalysts for the oxidative dehydrogenation of propane. *ChemSusChem*, **2014**, 7, 2496-504	8.3	20
25	Single-walled carbon nanotube-supported platinum nanoparticles as fuel cell electrocatalysts. *Journal of Materials Research*, **2006**, 21, 2841-2846	2.5	18
24	Effects of surfactant and fabrication procedure on the electrical conductivity and electromagnetic shielding of single-walled carbon nanotube films. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 425-432	1.6	17
23	Production of carbon nanotubes by CO2-laser evaporation of various carbonaceous feedstock materials. *Nanotechnology*, **2001**, 12, 147-151	3.4	16
22	FTIR and thermogravimetric analysis of biotin-functionalized single-walled carbon nanotubes. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 3473-6	1.3	15
21	Polyazomethine/carbon nanotube composites. *Materials Science and Engineering C*, **2006**, 26, 1198-1201	8.3	15
20	Multifunctional, biocompatible and pH-responsive carbon nanotube- and graphene oxide/tectomer hybrid composites and coatings. *Nanoscale*, **2017**, 9, 7791-7804	7.7	14
19	Important parameters for the catalytic nanoparticles formation towards the growth of carbon nanotube aligned arrays. *Diamond and Related Materials*, **2007**, 16, 1082-1086	3.5	13
18	Preparation and characterization of nematic polyazomethine/single-walled carbon nanotube composites prepared by in situ polymerization. *Journal of Polymer Science Part A*, **2009**, 47, 2361-2372	2.5	12
17	Two-Dimensional, pH-Responsive Oligoglycine-Based Nanocarriers. *ACS Applied Materials & Interfaces*, **2016**, 8, 1913-21	9.5	11
16	Tailored production of nanostructured metal/carbon foam by laser ablation of selected organometallic precursors. *Carbon*, **2010**, 48, 1807-1814	10.4	11
15	Long-chain amine-templated synthesis of gallium sulfide and gallium selenide nanotubes. *Nanoscale*, **2016**, 8, 11698-706	7.7	9
14	Laser chemistry synthesis, physicochemical properties, and chemical processing of nanostructured carbon foams. *Nanoscale Research Letters*, **2013**, 8, 233	5	8
13	Synthesis of DAM-1 molecular sieves containing single walled carbon nanotubes. *Microporous and Mesoporous Materials*, **2004**, 67, 61-65	5.3	7
12	Amyloidogenic peptide/single-walled carbon nanotube composites based on tau-protein-related peptides derived from AcPHF6: preparation and dispersive properties. *Journal of Physical Chemistry B*, **2013**, 117, 7593-604	3.4	5
11	Chemical Postdeposition Treatments To Improve the Adhesion of Carbon Nanotube Films on Plastic Substrates. *ACS Omega*, **2019**, 4, 2804-2811	3.9	4

10	Functionalization of Silver Nanowire Transparent Electrodes with Self-Assembled 2-Dimensional Tectomer Nanosheets. *ACS Applied Nano Materials*, **2018**, 1, 3903-3912	5.6	4
9	Carbon nanotube-based SAW sensors **2013**,		4
8	Attenuation of microwave electromagnetic radiation by means of buckypaper. *Technical Physics*, **2011**, 56, 1679-1684	0.5	4
7	Fabrication, morphology, and actuation from novel single-wall carbon nanotube/Nafion composites **2002**,		3
6	Two-dimensional oligoglycine tectomer adhesives for graphene oxide fiber functionalization. *Carbon*, **2019**, 147, 460-475	10.4	2
5	Carbon nanotube networks as sensitive layers for resistive gas sensor applications. *Nanopages*, **2013**, 8, 15-26	0	2
4	NO2 detection with Single Walled Carbon Nanotube Networks **2007**,		2
3	Laser-Deposited Carbon Aerogel Derived from Graphene Oxide Enables NO-Selective Parts-per-Billion Sensing. *ACS Applied Materials & Interfaces*, **2020**, 12, 39541-39548	9.5	2
2	Multi-Walled Carbon Nanotube Networks As Gas Sensors for NO2 Detection **2007**,		1
1	Single-walled carbon nanotube buckypaper as support for highly permeable double layer polyamide/zeolitic imidazolate framework in nanofiltration processes. *Journal of Membrane Science* , **2022**, 652, 120490	9.6	1