

Amelia Martinez-Alonso

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.

62 papers	2,577 citations	26 h-index	50 g-index
62 ext. papers	2,826 ext. citations	7.3 avg, IF	4.86 L-index

#	Paper	IF	Citations
62	Preparation of graphene dispersions and graphene-polymer composites in organic media. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3591		276
61	Surface chemistry of phosphorus-containing carbons of lignocellulosic origin. <i>Carbon</i> , 2005 , 43, 2857-2868	10.4	264
60	A possible buckybowl-like structure of zeolite templated carbon. <i>Carbon</i> , 2009 , 47, 1220-1230	10.4	203
59	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. <i>Nano Research</i> , 2013 , 6, 216-233	10	165
58	Comparative XRD, Raman, and TEM Study on Graphitization of PBO-Derived Carbon Fibers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 257-268	3.8	150
57	Influence of porous texture and surface chemistry on the CO ₂ adsorption capacity of porous carbons: acidic and basic site interactions. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21237-47	9.5	107
56	Chemically exfoliated MoS ₂ nanosheets as an efficient catalyst for reduction reactions in the aqueous phase. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21702-10	9.5	99
55	Oxygen and phosphorus enriched carbons from lignocellulosic material. <i>Carbon</i> , 2007 , 45, 1941-1950	10.4	95
54	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. <i>RSC Advances</i> , 2014 , 4, 14115-14127	3.7	90
53	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. <i>Nanoscale</i> , 2015 , 7, 2374-90	7.7	83
52	Thermal Transformations of Kevlar Aramid Fibers During Pyrolysis: Infrared and Thermal Analysis Studies. <i>Chemistry of Materials</i> , 1994 , 6, 1918-1924	9.6	70
51	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27974-27986	9.5	56
50	Aromatic polyamides as new precursors of nitrogen and oxygen-doped ordered mesoporous carbons. <i>Carbon</i> , 2014 , 70, 119-129	10.4	53
49	Activated carbon fibers with a high content of surface functional groups by phosphoric acid activation of PPTA. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 307-15	9.3	49
48	Atomic force microscopy investigation of the surface modification of highly oriented pyrolytic graphite by oxygen plasma. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1585-1591		39
47	Surface Characterization of PPTA Fibers Using Inverse Gas Chromatography. <i>Macromolecules</i> , 2002 , 35, 5085-5096	5.5	35
46	Microporous texture of activated carbon fibers prepared from aramid fiber pulp. <i>Microporous Materials</i> , 1997 , 11, 303-311		32

45	Modification of the pyrolysis/carbonization of PPTA polymer by intermediate isothermal treatments. <i>Carbon</i> , 2008 , 46, 985-993	10.4	31
44	Suitability of thermogravimetry and differential thermal analysis techniques for characterization of pitches. <i>Fuel</i> , 1992 , 71, 611-617	7.1	30
43	Preparation of hierarchical micro-mesoporous aluminosilicate composites by simple Y zeolite/MCM-48 silica assembly. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 60-69	5.7	29
42	Graphitization of highly porous carbons derived from poly(p-phenylene benzobisoxazole). <i>Carbon</i> , 2012 , 50, 2929-2940	10.4	29
41	Nomex polyaramid as a precursor for activated carbon fibres by phosphoric acid activation. Temperature and time effects. <i>Microporous and Mesoporous Materials</i> , 2004 , 75, 73-80	5.3	29
40	Mineral matter in coals of different rank from the Asturian Central basin. <i>Fuel</i> , 1992 , 71, 367-372	7.1	29
39	Developing green photochemical approaches towards the synthesis of carbon nanofiber- and graphene-supported silver nanoparticles and their use in the catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , 2013 , 3, 18323	3.7	28
38	Aqueous Exfoliation of Transition Metal Dichalcogenides Assisted by DNA/RNA Nucleotides: Catalytically Active and Biocompatible Nanosheets Stabilized by Acid-Base Interactions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2835-2845	9.5	27
37	Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. <i>Carbon</i> , 2012 , 50, 577-585	10.4	27
36	Surface Characterization of PBO Fibers. <i>Macromolecules</i> , 2003 , 36, 8662-8672	5.5	26
35	Preparation and porous texture characteristics of fibrous ultrahigh surface area carbons. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3213-3219		26
34	Aqueous Cathodic Exfoliation Strategy toward Solution-Processable and Phase-Preserved MoS ₂ Nanosheets for Energy Storage and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36991-37003	9.5	24
33	The importance of electrode characterization to assess the supercapacitor performance of ordered mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2016 , 235, 1-8	5.3	23
32	Avoiding structure degradation during activation of ordered mesoporous carbons. <i>Carbon</i> , 2012 , 50, 3826-3835	10.4	22
31	Correlation between Arrhenius kinetic parameters in the reaction of different carbon materials with oxygen. <i>Energy & Fuels</i> , 1993 , 7, 1141-1145	4.1	22
30	Interactions between carboxyl groups and inorganic elements in Spanish brown coals. <i>Fuel</i> , 1990 , 69, 362-367	7.1	21
29	Ordered mesoporous carbons obtained from low-value coal tar products for electrochemical energy storage and water remediation. <i>Fuel Processing Technology</i> , 2019 , 196, 106152	7.2	20
28	Nickel nanoparticle/carbon catalysts derived from a novel aqueous-synthesized metal-organic framework for nitroarene reduction. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157348	5.7	20

27	Complementary X-ray scattering and high resolution imaging of nanostructure development in thermally treated PBO fibers. <i>Carbon</i> , 2011 , 49, 2960-2970	10.4	17
26	Porous texture evolution in activated carbon fibers prepared from poly (p-phenylene benzobisoxazole) by carbon dioxide activation. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 622-626	5.3	17
25	The effect of demineralisation on a lignite surface properties. <i>Fuel</i> , 2004 , 83, 845-850	7.1	17
24	Energy storage on ultrahigh surface area activated carbon fibers derived from PMIA. <i>ChemSusChem</i> , 2013 , 6, 1406-13	8.3	16
23	Surface characteristics of activated carbons obtained by pyrolysis of plasma pretreated PET. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11327-33	3.4	16
22	Carbon molecular sieves for air separation from Nomex aramid fibers. <i>Journal of Colloid and Interface Science</i> , 2002 , 254, 414-6	9.3	16
21	Adsorption of n-alkanes on plasma-oxidized high-strength carbon fibers. <i>Journal of Colloid and Interface Science</i> , 2002 , 247, 290-302	9.3	14
20	Influence of plasma surface treatments on kink band formation in PBO fibers during compression. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 2052-2063	2.9	13
19	Microporosity and mesoporosity of PPTA-derived carbons. Effect of PPTA thermal pretreatment. <i>Microporous and Mesoporous Materials</i> , 2008 , 114, 185-192	5.3	13
18	Effect of sizing on the surface properties of carbon fibres. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3843-3850	12	
17	Effects of phosphoric acid as additive in the preparation of activated carbon fibers from poly(p-phenylene benzobisoxazole) by carbon dioxide activation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 95, 68-74	6	10
16	Porosity development in chars from thermal degradation of poly(p-phenylene benzobisoxazole). <i>Polymer Degradation and Stability</i> , 2009 , 94, 7-12	4.7	10
15	A scanning tunnelling microscopy insight into the preparation of carbon molecular sieves by chemical vapour deposition. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1513-1516		10
14	Effect of PPTA pre-impregnation with phosphoric acid on the porous texture of carbons prepared by CO ₂ activation of PPTA chars. <i>Microporous and Mesoporous Materials</i> , 2009 , 119, 284-289	5.3	9
13	The Determining Role of Mineral Matter on Gasification Reactivities of Brown Coal Chars 1991 , 435-460		8
12	An aqueous cathodic delamination route towards high quality graphene flakes for oil sorption and electrochemical charge storage applications. <i>Chemical Engineering Journal</i> , 2019 , 372, 1226-1239	14.7	7
11	Hierarchical micro-mesoporous carbons by direct replication of bimodal aluminosilicate templates. <i>Microporous and Mesoporous Materials</i> , 2014 , 190, 156-164	5.3	7
10	Activated carbon fibers from poly(p-phenylene benzobisoxazole). <i>Carbon</i> , 2008 , 46, 825-828	10.4	6

9	New atomic-scale features in graphite surfaces treated in a dielectric barrier discharge plasma. <i>Carbon</i> , 2008 , 46, 1364-1367	10.4	6
8	Nanostructure evolution in heat-treated porous carbons derived from PBO polymer. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S464-S468	5.7	5
7	A study of the surface morphology of poly(p-phenylene terephthalamide) chars using scanning probe microscopy. <i>Polymer Degradation and Stability</i> , 2010 , 95, 702-707	4.7	5
6	Reactions of coal mineral matter during coal chlorination. <i>Fuel</i> , 1990 , 69, 873-877	7.1	5
5	Characterization of common lignite, xylitic lignite and pyropissite varieties of low-rank coals. <i>Fuel</i> , 1994 , 73, 1723-1728	7.1	4
4	Effect of Plasma Treatments of Bisphenol A Polycarbonate on the Characteristics of Carbon Materials Obtained by Further Pyrolysis. <i>Plasma Processes and Polymers</i> , 2011 , 8, 942-950	3.4	3
3	Porosity development in chars from thermal decomposition of poly(p-phenylene terephthalamide). <i>Polymer Degradation and Stability</i> , 2009 , 94, 1890-1894	4.7	1
2	Adsorption on Fullereness 2008 , 329-367		1
1	Fullerene Reactivity in an Oxygen Plasma. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1997 , 5, 1075-1081		