Ignacio Martin-Gullon

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Impressive Fatigue Life and Fracture Toughness Improvements in Graphene Oxide/Epoxy Composites. Macromolecules, 2012, 45, 238-245.	4.8	434
2	Differences between carbon nanofibers produced using Fe and Ni catalysts in a floating catalyst reactor. Carbon, 2006, 44, 1572-1580.	10.3	200
3	Influence of Starch Composition and Molecular Weight on Physicochemical Properties of Biodegradable Films. Polymers, 2019, 11, 1084.	4.5	138
4	Carbon nanofibers enhance the fracture toughness and fatigue performance of a structural epoxy system. Composites Science and Technology, 2011, 71, 31-38.	7.8	126
5	Organic and inorganic pollutants from cement kiln stack feeding alternative fuels. Journal of Hazardous Materials, 2008, 158, 585-592.	12.4	123
6	Complete Study of the Pyrolysis and Gasification of Scrap Tires in a Pilot Plant Reactor. Environmental Science & Technology, 2004, 38, 3189-3194.	10.0	120
7	Comparison between emissions from the pyrolysis and combustion of different wastes. Journal of Analytical and Applied Pyrolysis, 2009, 84, 95-102.	5.5	120
8	Kinetic model for the pyrolysis and combustion of poly-(ethylene terephthalate) (PET). Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 635-650.	5.5	115
9	Pyrolysis and combustion of waste lubricant oil from diesel cars: Decomposition and pollutants. Journal of Analytical and Applied Pyrolysis, 2007, 79, 215-226.	5.5	109
10	Broad-Band Electrical Conductivity of High Density Polyethylene Nanocomposites with Carbon Nanoadditives: Multiwall Carbon Nanotubes and Carbon Nanofibers. Macromolecules, 2008, 41, 7090-7097.	4.8	100
11	Dynamic pesticide removal with activated carbon fibers. Water Research, 2001, 35, 516-520.	11.3	96
12	Kinetics of the pyrolysis and combustion of olive oil solid waste. Journal of Analytical and Applied Pyrolysis, 2004, 72, 9-15.	5.5	88
13	Evidence for growth mechanism and helix-spiral cone structure of stacked-cup carbon nanofibers. Carbon, 2007, 45, 2751-2758.	10.3	87
14	Activated carbons from bituminous coal: effect of mineral matter content. Fuel, 2000, 79, 635-643.	6.4	82
15	Pyrolysis of sewage sludge: nitrogenated compounds and pretreatment effects. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 561-575.	5.5	77
16	Chapter 1 Types of carbon adsorbents and their production. Interface Science and Technology, 2006, 7, 1-47.	3.3	74
17	Pyrolysis and combustion kinetics and emissions of waste lube oils. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 527-546.	5.5	66
18	The effect of graphitization temperature on the structure of helical-ribbon carbon nanofibers. Carbon, 2009, 47, 2211-2218.	10.3	64

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19	Thermogravimetric study of different sewage sludges and their relationship with the nitrogen content. Journal of Analytical and Applied Pyrolysis, 2005, 74, 421-428.	5.5	61
20	Study of the behavior of biodegradable starch/polyvinyl alcohol/rosin blends. Carbohydrate Polymers, 2018, 202, 299-305.	10.2	60
21	Towards the understanding of the graphene oxide structure: How to control the formation of humic- and fulvic-like oxidized debris. Carbon, 2015, 84, 299-309.	10.3	59
22	Fracture toughness and creep performance of PMMA composites containing micro and nanosized carbon filaments. Composites Science and Technology, 2010, 70, 1189-1195.	7.8	58
23	Graphene-doped carbon xerogel combining high electrical conductivity and surface area for optimized aqueous supercapacitors. Carbon, 2017, 118, 291-298.	10.3	58
24	Comparative study on properties of starch films obtained from potato, corn and wheat using 1-ethyl-3-methylimidazolium acetate as plasticizer. International Journal of Biological Macromolecules, 2019, 135, 845-854.	7.5	54
25	Comparative study of the dispersion and functional properties of multiwall carbon nanotubes and helical-ribbon carbon nanofibers in polyester nanocomposites. Composites Science and Technology, 2009, 69, 1521-1532.	7.8	52
26	Hybrid Films with Graphene Oxide and Metal Nanoparticles Could Now Replace Indium Tin Oxide. ACS Nano, 2012, 6, 4565-4572.	14.6	49
27	PAN-based activated carbon fiber composites for sulfur dioxide conversion: influence of fiber activation method. Fuel, 2001, 80, 969-977.	6.4	48
28	Thermogravimetric analysis during the decomposition of cotton fabrics in an inert and air environment. Journal of Analytical and Applied Pyrolysis, 2006, 76, 124-131.	5.5	46
29	Highly crystalline graphene oxide nano-platelets produced from helical-ribbon carbon nanofibers. Carbon, 2010, 48, 3640-3643.	10.3	41
30	Porosity Development during CO2and Steam Activation in a Fluidized Bed Reactor. Energy & Fuels, 2000, 14, 142-149.	5.1	39
31	Semivolatile compounds in pyrolysis of polyethylene. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 599-611.	5.5	39
32	Mechanical characterization of hierarchical carbon fiber/nanofiber composite laminates. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1584-1591.	7.6	38
33	Analysis of the microporosity shrinkage upon thermal post-treatment of H3PO4 activated carbons. Carbon, 2004, 42, 1339-1343.	10.3	35
34	Kinetic law for solids decomposition. Application to thermal degradation of heterogeneous materials. Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 703-731.	5.5	32
35	Determinant influence of the electrical conductivity versus surface area on the performance of graphene oxide-doped carbon xerogel supercapacitors. Carbon, 2018, 126, 456-463.	10.3	30
36	Emissions from pyrolysis and combustion of olive oil solid waste. Journal of Analytical and Applied Pyrolysis, 2005, 74, 512-517.	5.5	29

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37	Interaction between pollutants produced in sewage sludge combustion and cement raw material. Chemosphere, 2007, 69, 387-394.	8.2	27
38	Interrelation between the kinetic constant and the reaction order in pyrolysis. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 645-655.	5.5	26
39	Production of Carbon Nanotubes from Polyethylene Pyrolysis Gas and Effect of Temperature. Industrial & Engineering Chemistry Research, 2013, 52, 14847-14854.	3.7	26
40	Analysis of the electrical and rheological behavior of different processed CNF/PMMA nanocomposites. Composites Science and Technology, 2012, 72, 218-224.	7.8	25
41	Electroconductive starch/multi-walled carbon nanotube films plasticized by 1-ethyl-3-methylimidazolium acetate. Carbohydrate Polymers, 2020, 229, 115545.	10.2	22
42	Synergistic effect of graphene oxide and wet-chemical hydrazine/deionized water solution treatment on the thermoelectric properties of PEDOT:PSS sprayed films. Synthetic Metals, 2016, 222, 330-337.	3.9	21
43	Influence of the carbonization heating rate on the physical properties of activated carbons from a sub-bituminous coal. Carbon, 1996, 34, 449-456.	10.3	20
44	Organic Compounds Produced during the Thermal Decomposition of Cotton Fabrics. Environmental Science & amp; Technology, 2005, 39, 5141-5147.	10.0	18
45	The role of conductive additives on the performance of hybrid carbon xerogels as electrodes in aqueous supercapacitors. Electrochimica Acta, 2019, 295, 693-702.	5.2	18
46	Augmented fatigue performance and constant life diagrams of hierarchical carbon fiber/nanofiber epoxy composites. Composites Science and Technology, 2012, 72, 446-452.	7.8	17
47	The effect of carbon nanofillers on the performance of electromechanical polyaniline-based composite actuators. Nanotechnology, 2016, 27, 015501.	2.6	17
48	Production of bamboo-type carbon nanotubes doped with nitrogen from polyamide pyrolysis gas. Journal of Analytical and Applied Pyrolysis, 2018, 130, 52-61.	5.5	17
49	Role of graphene oxide surface chemistry on the improvement of the interlaminar mechanical properties of resin infusion processed epoxyâ€carbon fiber composites. Polymer Composites, 2018, 39, E2116.	4.6	17
50	Exploring the effect of humidity on thermoplastic starch films using the quartz crystal microbalance. Carbohydrate Polymers, 2021, 261, 117727.	10.2	17
51	Processing and functionalization effect in CNF/PMMA nanocomposites. Composites Part A: Applied Science and Manufacturing, 2012, 43, 711-721.	7.6	15
52	Stable operating velocity range for multistage fluidized bed reactors with downcomers. Powder Technology, 1995, 85, 193-201.	4.2	13
53	Graphene oxide nanoplatelets of different crystallinity synthesized from helical-ribbon carbon nanotubes. Journal of Materials Research, 2011, 26, 2632-2641.	2.6	13
54	Steam-activated carbons from a bituminous coal in a continuous multistage fluidized bed pilot plant. Carbon, 1996, 34, 1515-1520.	10.3	11

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55	Kinetic study of the pyrolysis of neoprene. Journal of Analytical and Applied Pyrolysis, 2005, 74, 231-237.	5.5	11
56	Rubber tire thermal decomposition in a used oil environment. Journal of Analytical and Applied Pyrolysis, 2005, 74, 265-269.	5.5	11
57	Steam Activation of a Bituminous Coal in a Multistage Fluidized Bed Pilot Plant:Â Operation and Simulation Model. Industrial & Engineering Chemistry Research, 1996, 35, 4139-4146.	3.7	10
58	New insights into oxygen surface coverage and the resulting two-component structure of graphene oxide. Carbon, 2020, 158, 406-417.	10.3	10
59	Analytical pyrolysis as a characterization technique for monitoring the production of carbon nanofilaments. Journal of Analytical and Applied Pyrolysis, 2007, 79, 484-489.	5.5	8
60	Formation and Elimination of Pollutant during Sludge Decomposition in the Presence of Cement Raw Material and Other Catalysts. Advances in Chemical Engineering and Science, 2011, 01, 183-190.	0.5	7
61	Custom-Made Chemically Modified Graphene Oxide to Improve the Anti-Scratch Resistance of Urethane-Acrylate Transparent Coatings. Coatings, 2019, 9, 408.	2.6	7
62	Effects of processing and functionalization methods on nylonâ€6,6 nanocomposites with Helicalâ€ribbon carbon nanofibers. Journal of Applied Polymer Science, 2012, 126, 1437-1448.	2.6	5
63	Effect of solvent nature in castingâ€based carbon nanofiber/poly(methylâ€methacrylate) nanocomposites. Journal of Applied Polymer Science, 2012, 125, 3228-3238.	2.6	3
64	A correlation between the Wolf-Wilburn scale and atomic force microscopy for anti-scratch resistance determination. Progress in Organic Coatings, 2018, 125, 325-330.	3.9	3
65	Comments on "Production of Activated Carbon from Coconut Shell Char in a Fluidized Bed Reactor― Industrial & Engineering Chemistry Research, 1999, 38, 1166-1168.	3.7	1