

# Ignacio Martin-Gullon

## List of Publications by Year in descending order

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65  
papers

3,463  
citations

126708

33  
h-index

138251

58  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4576  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impressive Fatigue Life and Fracture Toughness Improvements in Graphene Oxide/Epoxy Composites. <i>Macromolecules</i> , 2012, 45, 238-245.	2.2	434
2	Differences between carbon nanofibers produced using Fe and Ni catalysts in a floating catalyst reactor. <i>Carbon</i> , 2006, 44, 1572-1580.	5.4	200
3	Influence of Starch Composition and Molecular Weight on Physicochemical Properties of Biodegradable Films. <i>Polymers</i> , 2019, 11, 1084.	2.0	138
4	Carbon nanofibers enhance the fracture toughness and fatigue performance of a structural epoxy system. <i>Composites Science and Technology</i> , 2011, 71, 31-38.	3.8	126
5	Organic and inorganic pollutants from cement kiln stack feeding alternative fuels. <i>Journal of Hazardous Materials</i> , 2008, 158, 585-592.	6.5	123
6	Complete Study of the Pyrolysis and Gasification of Scrap Tires in a Pilot Plant Reactor. <i>Environmental Science &amp; Technology</i> , 2004, 38, 3189-3194.	4.6	120
7	Comparison between emissions from the pyrolysis and combustion of different wastes. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 84, 95-102.	2.6	120
8	Kinetic model for the pyrolysis and combustion of poly-(ethylene terephthalate) (PET). <i>Journal of Analytical and Applied Pyrolysis</i> , 2001, 58-59, 635-650.	2.6	115
9	Pyrolysis and combustion of waste lubricant oil from diesel cars: Decomposition and pollutants. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 79, 215-226.	2.6	109
10	Broad-Band Electrical Conductivity of High Density Polyethylene Nanocomposites with Carbon Nanoadditives: Multiwall Carbon Nanotubes and Carbon Nanofibers. <i>Macromolecules</i> , 2008, 41, 7090-7097.	2.2	100
11	Dynamic pesticide removal with activated carbon fibers. <i>Water Research</i> , 2001, 35, 516-520.	5.3	96
12	Kinetics of the pyrolysis and combustion of olive oil solid waste. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 72, 9-15.	2.6	88
13	Evidence for growth mechanism and helix-spiral cone structure of stacked-cup carbon nanofibers. <i>Carbon</i> , 2007, 45, 2751-2758.	5.4	87
14	Activated carbons from bituminous coal: effect of mineral matter content. <i>Fuel</i> , 2000, 79, 635-643.	3.4	82
15	Pyrolysis of sewage sludge: nitrogenated compounds and pretreatment effects. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 68-69, 561-575.	2.6	77
16	Chapter 1 Types of carbon adsorbents and their production. <i>Interface Science and Technology</i> , 2006, 7, 1-47.	1.6	74
17	Pyrolysis and combustion kinetics and emissions of waste lube oils. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 68-69, 527-546.	2.6	66
18	The effect of graphitization temperature on the structure of helical-ribbon carbon nanofibers. <i>Carbon</i> , 2009, 47, 2211-2218.	5.4	64

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19	Thermogravimetric study of different sewage sludges and their relationship with the nitrogen content. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 421-428.	2.6	61
20	Study of the behavior of biodegradable starch/polyvinyl alcohol/rosin blends. <i>Carbohydrate Polymers</i> , 2018, 202, 299-305.	5.1	60
21	Towards the understanding of the graphene oxide structure: How to control the formation of humic- and fulvic-like oxidized debris. <i>Carbon</i> , 2015, 84, 299-309.	5.4	59
22	Fracture toughness and creep performance of PMMA composites containing micro and nanosized carbon filaments. <i>Composites Science and Technology</i> , 2010, 70, 1189-1195.	3.8	58
23	Graphene-doped carbon xerogel combining high electrical conductivity and surface area for optimized aqueous supercapacitors. <i>Carbon</i> , 2017, 118, 291-298.	5.4	58
24	Comparative study on properties of starch films obtained from potato, corn and wheat using 1-ethyl-3-methylimidazolium acetate as plasticizer. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 845-854.	3.6	54
25	Comparative study of the dispersion and functional properties of multiwall carbon nanotubes and helical-ribbon carbon nanofibers in polyester nanocomposites. <i>Composites Science and Technology</i> , 2009, 69, 1521-1532.	3.8	52
26	Hybrid Films with Graphene Oxide and Metal Nanoparticles Could Now Replace Indium Tin Oxide. <i>ACS Nano</i> , 2012, 6, 4565-4572.	7.3	49
27	PAN-based activated carbon fiber composites for sulfur dioxide conversion: influence of fiber activation method. <i>Fuel</i> , 2001, 80, 969-977.	3.4	48
28	Thermogravimetric analysis during the decomposition of cotton fabrics in an inert and air environment. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 76, 124-131.	2.6	46
29	Highly crystalline graphene oxide nano-platelets produced from helical-ribbon carbon nanofibers. <i>Carbon</i> , 2010, 48, 3640-3643.	5.4	41
30	Porosity Development during CO <sub>2</sub> and Steam Activation in a Fluidized Bed Reactor. <i>Energy &amp; Fuels</i> , 2000, 14, 142-149.	2.5	39
31	Semivolatile compounds in pyrolysis of polyethylene. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 68-69, 599-611.	2.6	39
32	Mechanical characterization of hierarchical carbon fiber/nanofiber composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1584-1591.	3.8	38
33	Analysis of the microporosity shrinkage upon thermal post-treatment of H <sub>3</sub> PO <sub>4</sub> activated carbons. <i>Carbon</i> , 2004, 42, 1339-1343.	5.4	35
34	Kinetic law for solids decomposition. Application to thermal degradation of heterogeneous materials. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001, 58-59, 703-731.	2.6	32
35	Determinant influence of the electrical conductivity versus surface area on the performance of graphene oxide-doped carbon xerogel supercapacitors. <i>Carbon</i> , 2018, 126, 456-463.	5.4	30
36	Emissions from pyrolysis and combustion of olive oil solid waste. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 512-517.	2.6	29

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37	Interaction between pollutants produced in sewage sludge combustion and cement raw material. <i>Chemosphere</i> , 2007, 69, 387-394.	4.2	27
38	Interrelation between the kinetic constant and the reaction order in pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 68-69, 645-655.	2.6	26
39	Production of Carbon Nanotubes from Polyethylene Pyrolysis Gas and Effect of Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14847-14854.	1.8	26
40	Analysis of the electrical and rheological behavior of different processed CNF/PMMA nanocomposites. <i>Composites Science and Technology</i> , 2012, 72, 218-224.	3.8	25
41	Electroconductive starch/multi-walled carbon nanotube films plasticized by 1-ethyl-3-methylimidazolium acetate. <i>Carbohydrate Polymers</i> , 2020, 229, 115545.	5.1	22
42	Synergistic effect of graphene oxide and wet-chemical hydrazine/deionized water solution treatment on the thermoelectric properties of PEDOT:PSS sprayed films. <i>Synthetic Metals</i> , 2016, 222, 330-337.	2.1	21
43	Influence of the carbonization heating rate on the physical properties of activated carbons from a sub-bituminous coal. <i>Carbon</i> , 1996, 34, 449-456.	5.4	20
44	Organic Compounds Produced during the Thermal Decomposition of Cotton Fabrics. <i>Environmental Science &amp; Technology</i> , 2005, 39, 5141-5147.	4.6	18
45	The role of conductive additives on the performance of hybrid carbon xerogels as electrodes in aqueous supercapacitors. <i>Electrochimica Acta</i> , 2019, 295, 693-702.	2.6	18
46	Augmented fatigue performance and constant life diagrams of hierarchical carbon fiber/nanofiber epoxy composites. <i>Composites Science and Technology</i> , 2012, 72, 446-452.	3.8	17
47	The effect of carbon nanofillers on the performance of electromechanical polyaniline-based composite actuators. <i>Nanotechnology</i> , 2016, 27, 015501.	1.3	17
48	Production of bamboo-type carbon nanotubes doped with nitrogen from polyamide pyrolysis gas. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 130, 52-61.	2.6	17
49	Role of graphene oxide surface chemistry on the improvement of the interlaminar mechanical properties of resin infusion processed epoxy-carbon fiber composites. <i>Polymer Composites</i> , 2018, 39, E2116.	2.3	17
50	Exploring the effect of humidity on thermoplastic starch films using the quartz crystal microbalance. <i>Carbohydrate Polymers</i> , 2021, 261, 117727.	5.1	17
51	Processing and functionalization effect in CNF/PMMA nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 711-721.	3.8	15
52	Stable operating velocity range for multistage fluidized bed reactors with downcomers. <i>Powder Technology</i> , 1995, 85, 193-201.	2.1	13
53	Graphene oxide nanoplatelets of different crystallinity synthesized from helical-ribbon carbon nanofibers and multiwall carbon nanotubes. <i>Journal of Materials Research</i> , 2011, 26, 2632-2641.	1.2	13
54	Steam-activated carbons from a bituminous coal in a continuous multistage fluidized bed pilot plant. <i>Carbon</i> , 1996, 34, 1515-1520.	5.4	11

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55	Kinetic study of the pyrolysis of neoprene. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 231-237.	2.6	11
56	Rubber tire thermal decomposition in a used oil environment. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 265-269.	2.6	11
57	Steam Activation of a Bituminous Coal in a Multistage Fluidized Bed Pilot Plant:Â Operation and Simulation Model. <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 4139-4146.	1.8	10
58	New insights into oxygen surface coverage and the resulting two-component structure of graphene oxide. <i>Carbon</i> , 2020, 158, 406-417.	5.4	10
59	Analytical pyrolysis as a characterization technique for monitoring the production of carbon nanofilaments. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 79, 484-489.	2.6	8
60	Formation and Elimination of Pollutant during Sludge Decomposition in the Presence of Cement Raw Material and Other Catalysts. <i>Advances in Chemical Engineering and Science</i> , 2011, 01, 183-190.	0.2	7
61	Custom-Made Chemically Modified Graphene Oxide to Improve the Anti-Scratch Resistance of Urethane-Acrylate Transparent Coatings. <i>Coatings</i> , 2019, 9, 408.	1.2	7
62	Effects of processing and functionalization methods on nylonâ€6,6 nanocomposites with Helicalâ€ribbon carbon nanofibers. <i>Journal of Applied Polymer Science</i> , 2012, 126, 1437-1448.	1.3	5
63	Effect of solvent nature in castingâ€based carbon nanofiber/poly(methylâ€methacrylate) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 125, 3228-3238.	1.3	3
64	A correlation between the Wolf-Wilburn scale and atomic force microscopy for anti-scratch resistance determination. <i>Progress in Organic Coatings</i> , 2018, 125, 325-330.	1.9	3
65	Comments on â€Production of Activated Carbon from Coconut Shell Char in a Fluidized Bed Reactorâ€. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 1166-1168.	1.8	1