

Clara Blanco

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.

125
papers

5,160
citations

37
h-index

67
g-index

125
ext. papers

5,638
ext. citations

7.7
avg, IF

5.45
L-index

#	Paper	IF	Citations
125	Unraveling the relevance of carbon felts surface modification during electrophoretic deposition of nanocarbons on their performance as electrodes for the VO ₂ ⁺ /VO ₂ redox couple. <i>Applied Surface Science</i> , 2021 , 569, 151095	6.7	2
124	Reduced graphene oxide membranes in ocular regenerative medicine. <i>Materials Science and Engineering C</i> , 2020 , 114, 111075	8.3	8
123	Insights on the Behavior of Imidazolium Ionic Liquids as Electrolytes in Carbon-Based Supercapacitors: An Applied Electrochemical Approach. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15818-15830 ¹⁰	3.8	15830
122	No genome-wide DNA methylation changes found associated with medium-term reduced graphene oxide exposure in human lung epithelial cells. <i>Epigenetics</i> , 2020 , 15, 283-293	5.7	2
121	Multifunctional Silicone Rubber Nanocomposites by Controlling the Structure and Morphology of Graphene Material. <i>Polymers</i> , 2019 , 11,	4.5	13
120	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. <i>European Polymer Journal</i> , 2018 , 101, 56-65	5.2	14
119	LiFePO ₄ /Mesoporous Carbon Hybrid Supercapacitor Based on LiTFSI/Imidazolium Ionic Liquid Electrolyte. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1456-1465	3.8	22
118	Mechanism and Stability of a Redox Supercapacitor Based on Methylene Blue: Effects of Degradation of the Redox Shuttle. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2306-2316	6.1	12
117	High value activated carbons from waste polystyrene foams. <i>Microporous and Mesoporous Materials</i> , 2018 , 267, 181-184	5.3	32
116	Influence of the electrophoretic deposition parameters on the formation of suspended graphene-based films. <i>Materials and Design</i> , 2018 , 160, 58-64	8.1	10
115	Morphological changes in graphene materials caused by solvents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 558, 73-79	5.1	9
114	Unusual flexibility of mesophase pitch-derived carbon materials: An approach to the synthesis of graphene. <i>Carbon</i> , 2017 , 115, 539-545	10.4	22
113	Peculiarities of the production of graphene oxides with controlled properties from industrial coal liquids. <i>Fuel</i> , 2017 , 203, 253-260	7.1	8
112	Role of quinoline insoluble particles during the processing of coal tars to produce graphene materials. <i>Fuel</i> , 2017 , 206, 99-106	7.1	14
111	Customizing thermally-reduced graphene oxides for electrically conductive or mechanical reinforced epoxy nanocomposites. <i>European Polymer Journal</i> , 2017 , 93, 1-7	5.2	21
110	Experimental and Statistical Optimization of the Tensile Strength of Carbon Fibers from Pitches with Different Composition. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3243-3250	3.9	3
109	Biliquid Supercapacitors: a Simple and New Strategy to Enhance Energy Density in Asymmetric/Hybrid Devices. <i>Electrochimica Acta</i> , 2017 , 254, 384-392	6.7	13

108	Outstanding electrochemical performance of a graphene-modified graphite felt for vanadium redox flow battery application. <i>Journal of Power Sources</i> , 2017 , 338, 155-162	8.9	81
107	Influence of the carbonization temperature on the mechanical properties of thermoplastic polymer derived C/C-SiC composites. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 523-529	6	26
106	Effect of structural differences of carbon nanotubes and graphene based iridium-NHC materials on the hydrogen transfer catalytic activity. <i>Carbon</i> , 2016 , 96, 66-74	10.4	23
105	Enhancing energy density of carbon-based supercapacitors using Prussian Blue modified positive electrodes. <i>Electrochimica Acta</i> , 2016 , 212, 848-855	6.7	23
104	Local structure of Iridium organometallic catalysts covalently bonded to carbon nanotubes.. <i>Journal of Physics: Conference Series</i> , 2016 , 712, 012052	0.3	1
103	Cokes of different origin as precursors of graphene oxide. <i>Fuel</i> , 2016 , 166, 400-403	7.1	26
102	Enhancing the hydrogen transfer catalytic activity of hybrid carbon nanotube-based NHC-iridium catalysts by increasing the oxidation degree of the nanosupport. <i>Catalysis Science and Technology</i> , 2016 , 6, 5504-5514	5.5	19
101	Optimization of a carbon-based hybrid energy storage device with cerium (III) sulfate as redox electrolyte. <i>Journal of Power Sources</i> , 2016 , 309, 50-55	8.9	5
100	Graphene anchored palladium complex as efficient and recyclable catalyst in the Heck cross-coupling reaction. <i>Journal of Molecular Catalysis A</i> , 2016 , 416, 140-146		37
99	The influence of carbon nanotubes characteristics in their performance as positive electrodes in vanadium redox flow batteries. <i>Sustainable Energy Technologies and Assessments</i> , 2015 , 9, 105-110	4.7	21
98	New alternatives to graphite for producing graphene materials. <i>Carbon</i> , 2015 , 93, 812-818	10.4	28
97	CO ₂ adsorption capacity and kinetics in nitrogen-enriched activated carbon fibers prepared by different methods. <i>Chemical Engineering Journal</i> , 2015 , 281, 704-712	14.7	52
96	Enhanced energy density of carbon-based supercapacitors using Cerium (III) sulphate as inorganic redox electrolyte. <i>Electrochimica Acta</i> , 2015 , 168, 277-284	6.7	29
95	Tuning graphene properties by a multi-step thermal reduction process. <i>Carbon</i> , 2015 , 90, 160-163	10.4	19
94	Graphene-NHC-iridium hybrid catalysts built through DH covalent linkage. <i>Carbon</i> , 2015 , 83, 21-31	10.4	28
93	An approach to classification and capacitance expressions in electrochemical capacitors technology. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1084-92	3.6	143
92	A novel approach for the production of chemically activated carbon fibers. <i>Chemical Engineering Journal</i> , 2015 , 260, 463-468	14.7	31
91	N-enriched ACF from coal-based pitch blended with urea-based resin for CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2015 , 201, 10-16	5.3	19

90	Graphite felt modified with bismuth nanoparticles as negative electrode in a vanadium redox flow battery. <i>ChemSusChem</i> , 2014 , 7, 914-8	8.3	85
89	Activated carbon fibers prepared directly from stabilized fibers for use as electrodes in supercapacitors. <i>Materials Letters</i> , 2014 , 136, 214-217	3.3	24
88	A multi-step exfoliation approach to maintain the lateral size of graphene oxide sheets. <i>Carbon</i> , 2014 , 80, 830-832	10.4	12
87	Evaluating capacitive deionization for water desalination by direct determination of chloride ions. <i>Desalination</i> , 2014 , 344, 396-401	10.3	7
86	Chemicals from coal coking. <i>Chemical Reviews</i> , 2014 , 114, 1608-36	68.1	130
85	Tailoring micro-mesoporosity in activated carbon fibers to enhance SO ₂ catalytic oxidation. <i>Journal of Colloid and Interface Science</i> , 2014 , 428, 36-40	9.3	15
84	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. <i>Carbon</i> , 2013 , 65, 156-164	10.4	272
83	Optimization of the size and yield of graphene oxide sheets in the exfoliation step. <i>Carbon</i> , 2013 , 63, 576-578	10.4	70
82	Correct use of the Langmuir-Hinshelwood equation for proving the absence of a synergy effect in the photocatalytic degradation of phenol on a suspended mixture of titania and activated carbon. <i>Carbon</i> , 2013 , 55, 62-69	10.4	117
81	Graphite oxide-based graphene materials as positive electrodes in vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2013 , 241, 349-354	8.9	44
80	Thermally reduced graphite and graphene oxides in VRFBs. <i>Nano Energy</i> , 2013 , 2, 1322-1328	17.1	33
79	Critical temperatures in the synthesis of graphene-like materials by thermal exfoliation/reduction of graphite oxide. <i>Carbon</i> , 2013 , 52, 476-485	10.4	188
78	Voltage dependence of carbon-based supercapacitors for pseudocapacitance quantification. <i>Electrochimica Acta</i> , 2013 , 95, 225-229	6.7	29
77	Enhanced Hydrogen-Transfer Catalytic Activity of Iridium N-Heterocyclic Carbenes by Covalent Attachment on Carbon Nanotubes. <i>ACS Catalysis</i> , 2013 , 3, 1307-1317	13.1	67
76	Influence of the alignment degree of CVD-grown carbon nanotubes on their functionalization and adsorption capacity. <i>Diamond and Related Materials</i> , 2013 , 37, 1-7	3.5	5
75	An insight into the polymerization of anthracene oil to produce pitch using nuclear magnetic resonance. <i>Fuel</i> , 2013 , 105, 471-476	7.1	25
74	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. <i>RSC Advances</i> , 2012 , 2, 9643	3.7	46
73	Characterisation and feasibility as carbon fibre precursors of isotropic pitches derived from anthracene oil. <i>Fuel</i> , 2012 , 101, 9-15	7.1	28

72	Supercapacitor modified with methylene blue as redox active electrolyte. <i>Electrochimica Acta</i> , 2012 , 83, 241-246	6.7	130
71	Carbon nanowalls thin films as nanostructured electrode materials in vanadium redox flow batteries. <i>Nano Energy</i> , 2012 , 1, 833-839	17.1	62
70	The effect of the parent graphite on the structure of graphene oxide. <i>Carbon</i> , 2012 , 50, 275-282	10.4	165
69	Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. <i>Carbon</i> , 2012 , 50, 828-834	10.4	115
68	Further studies on the use of Raman spectroscopy and X-ray diffraction for the characterisation of TiC-containing carbon-carbon composites. <i>Carbon</i> , 2012 , 50, 3240-3246	10.4	10
67	Fabrication of C/SiC composites by combining liquid infiltration process and spark plasma sintering technique. <i>Ceramics International</i> , 2012 , 38, 2171-2175	5.1	21
66	Novel coal-based precursors for cokes with highly oriented microstructures. <i>Fuel</i> , 2012 , 95, 400-406	7.1	8
65	Optimisation of the melt-spinning of anthracene oil-based pitch for isotropic carbon fibre preparation. <i>Fuel Processing Technology</i> , 2012 , 93, 99-104	7.2	42
64	Mechanisms of Energy Storage in Carbon-Based Supercapacitors Modified with a Quinoid Redox-Active Electrolyte. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17606-17611	3.8	241
63	High performance activated carbon for benzene/toluene adsorption from industrial wastewater. <i>Journal of Hazardous Materials</i> , 2011 , 192, 1525-32	12.8	42
62	Enhanced performance of a Bi-modified graphite felt as the positive electrode of a vanadium redox flow battery. <i>Electrochemistry Communications</i> , 2011 , 13, 1379-1382	5.1	141
61	Carbon materials as electrodes for electrosorption of NaCl in aqueous solutions. <i>Adsorption</i> , 2011 , 17, 467-471	2.6	30
60	Towards a further generation of high-energy carbon-based capacitors by using redox-active electrolytes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1699-701	16.4	343
59	Influence of titanium carbide on the interlaminar shear strength of carbon fibre laminate composites. <i>Composites Science and Technology</i> , 2011 , 71, 101-106	8.6	1
58	Redox-active electrolyte for carbon nanotube-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2011 , 56, 3401-3405	6.7	143
57	A unified process for preparing mesophase and isotropic material from anthracene oil-based pitch. <i>Fuel Processing Technology</i> , 2011 , 92, 421-427	7.2	12
56	Synthesis of activated carbons by chemical activation of new anthracene oil-based pitches and their optimization by response surface methodology. <i>Fuel Processing Technology</i> , 2011 , 92, 1987-1992	7.2	13
55	Behaviour of Ti-doped CFCs under thermal fatigue tests. <i>Fusion Engineering and Design</i> , 2011 , 86, 121-125	7.5	4

54	. <i>Energy & Fuels</i> , 2010 , 24, 3422-3428	4.1	49
53	Capacitive Deionization of NaCl Solutions with Modified Activated Carbon Electrodes. <i>Energy & Fuels</i> , 2010 , 24, 3329-3333	4.1	80
52	Improvement of thermal conductivity in 2D carbon-carbon composites by doping with TiC nanoparticles. <i>Materials Chemistry and Physics</i> , 2010 , 122, 102-107	4.4	16
51	Oxidation behaviour of magnesia-carbon materials prepared with petroleum pitch as binder. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010 , 88, 207-212	6	8
50	The effect of the substrate on pitch wetting behaviour. <i>Fuel Processing Technology</i> , 2010 , 91, 1373-1377	7.2	21
49	Evaluation of novel Ti-doped 3D carbon-carbon composites under transient thermal loads. <i>Fusion Engineering and Design</i> , 2010 , 85, 813-818	1.7	
48	Development of titanium-doped carbon-carbon composites. <i>Journal of Materials Science</i> , 2009 , 44, 2525-2532	4.5	7
47	Thermal curing of mesophase pitch: An alternative to oxidative stabilisation for the development of carbon-carbon composites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 86, 28-32	6	6
46	Long-term cycling of carbon-based supercapacitors in aqueous media. <i>Electrochimica Acta</i> , 2009 , 54, 4481-4486	6.7	83
45	An activated carbon monolith as an electrode material for supercapacitors. <i>Carbon</i> , 2009 , 47, 195-200	10.4	140
44	Manufacturing and high heat-flux testing of brazed actively cooled mock-ups with Ti-doped graphite and CFC as plasma-facing materials. <i>Physica Scripta</i> , 2009 , T138, 014062	2.6	5
43	Preparation of low toxicity pitches by thermal oxidative condensation of anthracene oil. <i>Environmental Science & Technology</i> , 2009 , 43, 8126-32	10.3	28
42	Behaviour of Ti-doped 3D carbon fibre composites under intense thermal shock tests. <i>Physica Scripta</i> , 2009 , T138, 014055	2.6	3
41	Mesophase from Anthracene Oil-Based Pitches. <i>Energy & Fuels</i> , 2008 , 22, 4146-4150	4.1	21
40	A study of Faradaic phenomena in activated carbon by means of macroelectrodes and single particle electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 618, 33-38	4.1	5
39	Effect of the thermal treatment of carbon-based electrodes on the electrochemical performance of supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 618, 17-23	4.1	20
38	Enhanced life-cycle supercapacitors by thermal treatment of mesophase-derived activated carbons. <i>Electrochimica Acta</i> , 2008 , 54, 305-310	6.7	49
37	Carbon molecular sieves as model active electrode materials in supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2008 , 110, 431-435	5.3	25

36	An insight into Faradaic phenomena in activated carbon investigated by means of the microelectrode technique. <i>Electrochemistry Communications</i> , 2007 , 9, 2320-2324	5.1	4
35	An insight into pitch/substrate wetting behaviour. The effect of the substrate processing temperature on pitch wetting capacity. <i>Fuel</i> , 2007 , 86, 1046-1052	7.1	17
34	Effects of thermal treatment of activated carbon on the electrochemical behaviour in supercapacitors. <i>Electrochimica Acta</i> , 2007 , 52, 4969-4973	6.7	148
33	The adsorption of chromium (VI) from industrial wastewater by acid and base-activated lignocellulosic residues. <i>Journal of Hazardous Materials</i> , 2007 , 144, 400-5	12.8	52
32	Influence of electrode preparation on the electrochemical behaviour of carbon-based supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2007 , 37, 717-721	2.6	37
31	Chemical activation of carbon mesophase pitches. <i>Journal of Colloid and Interface Science</i> , 2006 , 298, 341-7	9.3	43
30	Activated carbon produced from Sasol-Lurgi gasifier pitch and its application as electrodes in supercapacitors. <i>Carbon</i> , 2006 , 44, 441-446	10.4	75
29	Influence of mesophase activation conditions on the specific capacitance of the resulting carbons. <i>Journal of Power Sources</i> , 2006 , 156, 719-724	8.9	21
28	Lignocellulose/pitch based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 649-657	8.4	9
27	Thermal degradation of lignocellulosic materials treated with several acids. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 74, 337-343	6	18
26	Pyrolysis behaviour of pitches modified with different additives. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 73, 276-283	6	16
25	Pitch/coke wetting behaviour. <i>Fuel</i> , 2005 ,	7.1	4
24	Composite electrode materials for lithium-ion batteries obtained by metal oxide addition to petroleum vacuum residua. <i>Carbon</i> , 2005 , 43, 923-936	10.4	10
23	Improvement of the thermal stability of lignocellulosic materials by treatment with sulphuric acid and potassium hydroxide. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004 , 72, 131-139	6	20
22	Monitoring coal-tar pitch composition changes during air-blowing by gas chromatography. <i>Journal of Chromatography A</i> , 2004 , 1026, 231-8	4.5	13
21	The stabilisation of carbon fibres studied by micro-thermal analysis. <i>Carbon</i> , 2003 , 41, 165-171	10.4	45
20	A novel method to obtain a petroleum-derived mesophase pitch suitable as carbon fibre precursor. <i>Carbon</i> , 2003 , 41, 445-452	10.4	34
19	Mesophase development in petroleum and coal-tar pitches and their blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003 , 68-69, 409-424	6	48

18	Relationship between chemical composition and pyrolysis behaviour of a medium temperature pitch (or Lurgi-gasifier pitch). <i>Fuel Processing Technology</i> , 2003 , 84, 63-77	7.2	14
17	Influence of fibre-matrix interface on the fracture behaviour of carbon-carbon composites. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 2857-2866	6	48
16	Study of carbon fibres and carbon-carbon composites by scanning thermal microscopy. <i>Journal of Microscopy</i> , 2002 , 205, 21-32	1.9	18
15	Pyrolysis behaviour of mesophase and isotropic phases isolated from the same pitch. <i>Journal of Analytical and Applied Pyrolysis</i> , 2002 , 63, 251-265	6	17
14	Development of new carbon honeycomb structures from cellulose and pitch. <i>Carbon</i> , 2002 , 40, 541-550	10.4	20
13	Micro-thermal analysis as a technique for in situ characterisation of the softening behaviour of the isotropic phase and mesophase in thermally treated pitches. <i>Carbon</i> , 2002 , 40, 132-135	10.4	7
12	Large diameter carbon fibres from mesophase pitch. <i>Carbon</i> , 2002 , 40, 2109-2116	10.4	40
11	A study of pitch-based precursors for general purpose carbon fibres. <i>Carbon</i> , 2002 , 40, 2719-2725	10.4	61
10	Texture studies of carbon and graphite tapes by XRD texture goniometry. <i>Journal of Materials Science</i> , 2002 , 37, 5283-5290	4.3	15
9	Effects of Air-Blowing on the Molecular Size and Structure of Coal-Tar Pitch Components. <i>Energy & Fuels</i> , 2002 , 16, 1540-1549	4.1	20
8	On the Chemical Composition of Thermally Treated Coal-Tar Pitches. <i>Energy & Fuels</i> , 2001 , 15, 214-223	4.1	19
7	Structural Characterization of High-Softening-Point Pitches By Oxidation with RuO ₄ . <i>Energy & Fuels</i> , 2001 , 15, 128-134	4.1	7
6	A comparative study of air-blown and thermally treated coal-tar pitches. <i>Carbon</i> , 2000 , 38, 517-523	10.4	66
5	Pitch-based carbon composites with granular reinforcements for frictional applications. <i>Carbon</i> , 2000 , 38, 1043-1051	10.4	25
4	Separation and characterization of the isotropic phase and co-existing mesophase in thermally treated coal-tar pitches. <i>Carbon</i> , 2000 , 38, 1169-1176	10.4	18
3	Microstructure and properties of pitch-based carbon composites. <i>Journal of Microscopy</i> , 1999 , 196, 213-249	10.4	6
2	Contribution of the isotropic phase to the rheology of partially anisotropic coal-tar pitches. <i>Carbon</i> , 1999 , 37, 1059-1064	10.4	14
1	A novel method for mesophase separation. <i>Carbon</i> , 1997 , 35, 1191-1193	10.4	19

