

# Clara Blanco

## List of Publications by Year in descending order

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125  
papers

6,179  
citations

71102

41  
h-index

76900

74  
g-index

125  
all docs

125  
docs citations

125  
times ranked

6985  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the relevance of carbon felts surface modification during electrophoretic deposition of nanocarbons on their performance as electrodes for the VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox couple. <i>Applied Surface Science</i> , 2021, 569, 151095.	6.1	10
2	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.	2.7	6
3	Reduced graphene oxide membranes in ocular regenerative medicine. <i>Materials Science and Engineering C</i> , 2020, 114, 111075.	7.3	12
4	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.	3.1	34
5	Multifunctional Silicone Rubber Nanocomposites by Controlling the Structure and Morphology of Graphene Material. <i>Polymers</i> , 2019, 11, 449.	4.5	25
6	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. <i>European Polymer Journal</i> , 2018, 101, 56-65.	5.4	16
7	LiFePO <sub>4</sub> /Mesoporous Carbon Hybrid Supercapacitor Based on LiTFSI/Imidazolium Ionic Liquid Electrolyte. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1456-1465.	3.1	30
8	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.	5.1	18
9	High value activated carbons from waste polystyrene foams. <i>Microporous and Mesoporous Materials</i> , 2018, 267, 181-184.	4.4	57
10	Influence of the electrophoretic deposition parameters on the formation of suspended graphene-based films. <i>Materials and Design</i> , 2018, 160, 58-64.	7.0	15
11	Morphological changes in graphene materials caused by solvents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 73-79.	4.7	9
12	Unusual flexibility of mesophase pitch-derived carbon materials: An approach to the synthesis of graphene. <i>Carbon</i> , 2017, 115, 539-545.	10.3	31
13	Peculiarities of the production of graphene oxides with controlled properties from industrial coal liquids. <i>Fuel</i> , 2017, 203, 253-260.	6.4	16
14	Role of quinoline insoluble particles during the processing of coal tars to produce graphene materials. <i>Fuel</i> , 2017, 206, 99-106.	6.4	20
15	Customizing thermally-reduced graphene oxides for electrically conductive or mechanical reinforced epoxy nanocomposites. <i>European Polymer Journal</i> , 2017, 93, 1-7.	5.4	24
16	Experimental and Statistical Optimization of the Tensile Strength of Carbon Fibers from Pitches with Different Composition. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 3243-3250.	3.7	3
17	Biliquid Supercapacitors: a Simple and New Strategy to Enhance Energy Density in Asymmetric/Hybrid Devices. <i>Electrochimica Acta</i> , 2017, 254, 384-392.	5.2	16
18	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.	7.8	105

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19	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.	5.7	39
20	Enhancing energy density of carbon-based supercapacitors using Prussian Blue modified positive electrodes. <i>Electrochimica Acta</i> , 2016, 212, 848-855.	5.2	29
21	Local structure of Iridium organometallic catalysts covalently bonded to carbon nanotubes.. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012052.	0.4	1
22	Cokes of different origin as precursors of graphene oxide. <i>Fuel</i> , 2016, 166, 400-403.	6.4	33
23	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.	4.1	20
24	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.	7.8	6
25	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.	4.8	43
26	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.	10.3	25
27	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.	2.7	25
28	New alternatives to graphite for producing graphene materials. <i>Carbon</i> , 2015, 93, 812-818.	10.3	37
29	CO <sub>2</sub> adsorption capacity and kinetics in nitrogen-enriched activated carbon fibers prepared by different methods. <i>Chemical Engineering Journal</i> , 2015, 281, 704-712.	12.7	63
30	Enhanced energy density of carbon-based supercapacitors using Cerium (III) sulphate as inorganic redox electrolyte. <i>Electrochimica Acta</i> , 2015, 168, 277-284.	5.2	38
31	Tuning graphene properties by a multi-step thermal reduction process. <i>Carbon</i> , 2015, 90, 160-163.	10.3	21
32	Graphene-NHC-iridium hybrid catalysts built through -OH covalent linkage. <i>Carbon</i> , 2015, 83, 21-31.	10.3	31
33	An approach to classification and capacitance expressions in electrochemical capacitors technology. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1084-1092.	2.8	181
34	A novel approach for the production of chemically activated carbon fibers. <i>Chemical Engineering Journal</i> , 2015, 260, 463-468.	12.7	39
35	N-enriched ACF from coal-based pitch blended with urea-based resin for CO <sub>2</sub> capture. <i>Microporous and Mesoporous Materials</i> , 2015, 201, 10-16.	4.4	23
36	Chemicals from Coal Coking. <i>Chemical Reviews</i> , 2014, 114, 1608-1636.	47.7	166

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37	Tailoring micro-mesoporosity in activated carbon fibers to enhance SO <sub>2</sub> catalytic oxidation. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 36-40.	9.4	18
38	Graphite Felt Modified with Bismuth Nanoparticles as Negative Electrode in a Vanadium Redox Flow Battery. <i>ChemSusChem</i> , 2014, 7, 914-918.	6.8	113
39	Activated carbon fibers prepared directly from stabilized fibers for use as electrodes in supercapacitors. <i>Materials Letters</i> , 2014, 136, 214-217.	2.6	27
40	A multi-step exfoliation approach to maintain the lateral size of graphene oxide sheets. <i>Carbon</i> , 2014, 80, 830-832.	10.3	14
41	Evaluating capacitive deionization for water desalination by direct determination of chloride ions. <i>Desalination</i> , 2014, 344, 396-401.	8.2	11
42	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. <i>Carbon</i> , 2013, 65, 156-164.	10.3	345
43	Optimization of the size and yield of graphene oxide sheets in the exfoliation step. <i>Carbon</i> , 2013, 63, 576-578.	10.3	77
44	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.	10.3	146
45	Graphite oxide-based graphene materials as positive electrodes in vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2013, 241, 349-354.	7.8	57
46	Thermally reduced graphite and graphene oxides in VRFBs. <i>Nano Energy</i> , 2013, 2, 1322-1328.	16.0	37
47	Critical temperatures in the synthesis of graphene-like materials by thermal exfoliation-reduction of graphite oxide. <i>Carbon</i> , 2013, 52, 476-485.	10.3	236
48	Voltage dependence of carbon-based supercapacitors for pseudocapacitance quantification. <i>Electrochimica Acta</i> , 2013, 95, 225-229.	5.2	34
49	Enhanced Hydrogen-Transfer Catalytic Activity of Iridium N-Heterocyclic Carbenes by Covalent Attachment on Carbon Nanotubes. <i>ACS Catalysis</i> , 2013, 3, 1307-1317.	11.2	77
50	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.	3.9	6
51	An insight into the polymerization of anthracene oil to produce pitch using nuclear magnetic resonance. <i>Fuel</i> , 2013, 105, 471-476.	6.4	34
52	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. <i>RSC Advances</i> , 2012, 2, 9643.	3.6	51
53	Characterisation and feasibility as carbon fibre precursors of isotropic pitches derived from anthracene oil. <i>Fuel</i> , 2012, 101, 9-15.	6.4	30
54	Supercapacitor modified with methylene blue as redox active electrolyte. <i>Electrochimica Acta</i> , 2012, 83, 241-246.	5.2	148

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55	Carbon nanowalls thin films as nanostructured electrode materials in vanadium redox flow batteries. <i>Nano Energy</i> , 2012, 1, 833-839.	16.0	79
56	The effect of the parent graphite on the structure of graphene oxide. <i>Carbon</i> , 2012, 50, 275-282.	10.3	188
57	Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. <i>Carbon</i> , 2012, 50, 828-834.	10.3	129
58	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.	10.3	12
59	Fabrication of C/SiC composites by combining liquid infiltration process and spark plasma sintering technique. <i>Ceramics International</i> , 2012, 38, 2171-2175.	4.8	23
60	Novel coal-based precursors for cokes with highly oriented microstructures. <i>Fuel</i> , 2012, 95, 400-406.	6.4	10
61	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	45
62	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.	3.1	263
63	High performance activated carbon for benzene/toluene adsorption from industrial wastewater. <i>Journal of Hazardous Materials</i> , 2011, 192, 1525-1532.	12.4	58
64	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.	4.7	164
65	Carbon materials as electrodes for electrosorption of NaCl in aqueous solutions. <i>Adsorption</i> , 2011, 17, 467-471.	3.0	34
66	Towards a Further Generation of High-Energy Carbon-Based Capacitors by Using Redox-Active Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1699-1701.	13.8	389
67	Influence of titanium carbide on the interlaminar shear strength of carbon fibre laminate composites. <i>Composites Science and Technology</i> , 2011, 71, 101-106.	7.8	2
68	Redox-active electrolyte for carbon nanotube-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2011, 56, 3401-3405.	5.2	159
69	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	14
70	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
71	Behaviour of Ti-doped CFCs under thermal fatigue tests. <i>Fusion Engineering and Design</i> , 2011, 86, 121-125.	1.9	4
72	Improvement of thermal conductivity in 2D carbon-carbon composites by doping with TiC nanoparticles. <i>Materials Chemistry and Physics</i> , 2010, 122, 102-107.	4.0	18

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73	Oxidation behaviour of magnesia-carbon materials prepared with petroleum pitch as binder. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 88, 207-212.	5.5	9
74	The effect of the substrate on pitch wetting behaviour. <i>Fuel Processing Technology</i> , 2010, 91, 1373-1377.	7.2	23
75	Evaluation of novel Ti-doped 3D carbon-carbon composites under transient thermal loads. <i>Fusion Engineering and Design</i> , 2010, 85, 813-818.	1.9	0
76	Comparison between Electrochemical Capacitors Based on NaOH- and KOH-Activated Carbons. <i>Energy &amp; Fuels</i> , 2010, 24, 3422-3428.	5.1	57
77	Capacitive Deionization of NaCl Solutions with Modified Activated Carbon Electrodes. <i>Energy &amp; Fuels</i> , 2010, 24, 3329-3333.	5.1	93
78	Development of titanium-doped carbon-carbon composites. <i>Journal of Materials Science</i> , 2009, 44, 2525-2532.	3.7	7
79	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.	5.5	7
80	Long-term cycling of carbon-based supercapacitors in aqueous media. <i>Electrochimica Acta</i> , 2009, 54, 4481-4486.	5.2	95
81	An activated carbon monolith as an electrode material for supercapacitors. <i>Carbon</i> , 2009, 47, 195-200.	10.3	158
82	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.	2.5	5
83	Preparation of Low Toxicity Pitches by Thermal Oxidative Condensation of Anthracene Oil. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8126-8132.	10.0	30
84	Behaviour of Ti-doped 3D carbon fibre composites under intense thermal shock tests. <i>Physica Scripta</i> , 2009, T138, 014055.	2.5	3
85	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.	3.8	5
86	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.	3.8	21
87	Enhanced life-cycle supercapacitors by thermal treatment of mesophase-derived activated carbons. <i>Electrochimica Acta</i> , 2008, 54, 305-310.	5.2	54
88	Carbon molecular sieves as model active electrode materials in supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 431-435.	4.4	28
89	Mesophase from Anthracene Oil-Based Pitches. <i>Energy &amp; Fuels</i> , 2008, 22, 4146-4150.	5.1	22
90	An insight into Faradaic phenomena in activated carbon investigated by means of the microelectrode technique. <i>Electrochemistry Communications</i> , 2007, 9, 2320-2324.	4.7	4

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91	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.	6.4	18
92	Effects of thermal treatment of activated carbon on the electrochemical behaviour in supercapacitors. <i>Electrochimica Acta</i> , 2007, 52, 4969-4973.	5.2	172
93	The adsorption of chromium (VI) from industrial wastewater by acid and base-activated lignocellulosic residues. <i>Journal of Hazardous Materials</i> , 2007, 144, 400-405.	12.4	67
94	Influence of electrode preparation on the electrochemical behaviour of carbon-based supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 717-721.	2.9	43
95	Activated carbon produced from Sasol-Lurgi gasifier pitch and its application as electrodes in supercapacitors. <i>Carbon</i> , 2006, 44, 441-446.	10.3	91
96	Influence of mesophase activation conditions on the specific capacitance of the resulting carbons. <i>Journal of Power Sources</i> , 2006, 156, 719-724.	7.8	22
97	Chemical activation of carbon mesophase pitches. <i>Journal of Colloid and Interface Science</i> , 2006, 298, 341-347.	9.4	46
98	Thermal degradation of lignocellulosic materials treated with several acids. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 337-343.	5.5	27
99	Pyrolysis behaviour of pitches modified with different additives. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 73, 276-283.	5.5	17
100	Pitch/coke wetting behaviour. <i>Fuel</i> , 2005, , .	6.4	9
101	Composite electrode materials for lithium-ion batteries obtained by metal oxide addition to petroleum vacuum residua. <i>Carbon</i> , 2005, 43, 923-936.	10.3	12
102	Lignocellulose/pitch based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 649-657.	7.6	14
103	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.	5.5	22
104	Monitoring coal-tar pitch composition changes during air-blowing by gas chromatography. <i>Journal of Chromatography A</i> , 2004, 1026, 231-238.	3.7	19
105	The stabilisation of carbon fibres studied by micro-thermal analysis. <i>Carbon</i> , 2003, 41, 165-171.	10.3	49
106	A novel method to obtain a petroleum-derived mesophase pitch suitable as carbon fibre precursor. <i>Carbon</i> , 2003, 41, 445-452.	10.3	42
107	Mesophase development in petroleum and coal-tar pitches and their blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 68-69, 409-424.	5.5	60
108	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	15

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109	Influence of fibre-matrix interface on the fracture behaviour of carbon-carbon composites. Journal of the European Ceramic Society, 2003, 23, 2857-2866.	5.7	54
110	Effects of Air-Blowing on the Molecular Size and Structure of Coal-Tar Pitch Components. Energy & Fuels, 2002, 16, 1540-1549.	5.1	24
111	Study of carbon fibres and carbon-carbon composites by scanning thermal microscopy. Journal of Microscopy, 2002, 205, 21-32.	1.8	20
112	Pyrolysis behaviour of mesophase and isotropic phases isolated from the same pitch. Journal of Analytical and Applied Pyrolysis, 2002, 63, 251-265.	5.5	21
113	Development of new carbon honeycomb structures from cellulose and pitch. Carbon, 2002, 40, 541-550.	10.3	20
114	Micro-thermal analysis as a technique for in situ characterisation of the softening behaviour of the isotropic phase and mesophase in thermally treated pitches. Carbon, 2002, 40, 132-135.	10.3	8
115	Large diameter carbon fibres from mesophase pitch. Carbon, 2002, 40, 2109-2116.	10.3	46
116	A study of pitch-based precursors for general purpose carbon fibres. Carbon, 2002, 40, 2719-2725.	10.3	70
117	Texture studies of carbon and graphite tapes by XRD texture goniometry. Journal of Materials Science, 2002, 37, 5283-5290.	3.7	17
118	On the Chemical Composition of Thermally Treated Coal-Tar Pitches. Energy & Fuels, 2001, 15, 214-223.	5.1	21
119	Structural Characterization of High-Softening-Point Pitches By Oxidation with RuO <sub>4</sub> . Energy & Fuels, 2001, 15, 128-134.	5.1	7
120	A comparative study of air-blown and thermally treated coal-tar pitches. Carbon, 2000, 38, 517-523.	10.3	73
121	Pitch-based carbon composites with granular reinforcements for frictional applications. Carbon, 2000, 38, 1043-1051.	10.3	27
122	Separation and characterization of the isotropic phase and co-existing mesophase in thermally treated coal-tar pitches. Carbon, 2000, 38, 1169-1176.	10.3	23
123	Microstructure and properties of pitch-based carbon composites. Journal of Microscopy, 1999, 196, 213-224.	1.8	11
124	Contribution of the isotropic phase to the rheology of partially anisotropic coal-tar pitches. Carbon, 1999, 37, 1059-1064.	10.3	16
125	A novel method for mesophase separation. Carbon, 1997, 35, 1191-1193.	10.3	23