

Ricardo Santamaria

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139
papers

5,255
citations

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139
ext. papers

5,767
ext. citations

7.1
avg, IF

5.47
L-index

#	Paper	IF	Citations
139	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
138	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
137	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
136	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
135	The effect of the parent graphite on the structure of graphene oxide. <i>Carbon</i> , 2012 , 50, 275-282	10.4	165
134	Surface area measurement of graphene oxide in aqueous solutions. <i>Langmuir</i> , 2013 , 29, 13443-8	4	155
133	Effects of thermal treatment of activated carbon on the electrochemical behaviour in supercapacitors. <i>Electrochimica Acta</i> , 2007 , 52, 4969-4973	6.7	148
132	An approach to classification and capacitance expressions in electrochemical capacitors technology. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1084-92	3.6	143
131	Redox-active electrolyte for carbon nanotube-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2011 , 56, 3401-3405	6.7	143
130	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
129	An activated carbon monolith as an electrode material for supercapacitors. <i>Carbon</i> , 2009 , 47, 195-200	10.4	140
128	Supercapacitor modified with methylene blue as redox active electrolyte. <i>Electrochimica Acta</i> , 2012 , 83, 241-246	6.7	130
127	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
126	Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. <i>Carbon</i> , 2012 , 50, 828-834	10.4	115
125	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
124	Long-term cycling of carbon-based supercapacitors in aqueous media. <i>Electrochimica Acta</i> , 2009 , 54, 4481-4486	6.7	83
123	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

122	Capacitive Deionization of NaCl Solutions with Modified Activated Carbon Electrodes <i>Energy & Fuels</i> , 2010 , 24, 3329-3333	4.1	80
121	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
120	Optimization of the size and yield of graphene oxide sheets in the exfoliation step. <i>Carbon</i> , 2013 , 63, 576-578	10.4	70
119	A comparative study of air-blown and thermally treated coal-tar pitches. <i>Carbon</i> , 2000 , 38, 517-523	10.4	66
118	Carbon nanowalls thin films as nanostructured electrode materials in vanadium redox flow batteries. <i>Nano Energy</i> , 2012 , 1, 833-839	17.1	62
117	A study of pitch-based precursors for general purpose carbon fibres. <i>Carbon</i> , 2002 , 40, 2719-2725	10.4	61
116	A thermoanalytical study of the co-pyrolysis of coal-tar pitch and petroleum pitch. <i>Fuel</i> , 2004 , 83, 1257-1265	10.4	57
115	Electrochemical, textural and microstructural effects of mechanical grinding on graphitized petroleum coke for lithium and sodium batteries. <i>Carbon</i> , 2003 , 41, 3003-3013	10.4	54
114	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
113	. <i>Energy & Fuels</i> , 2010 , 24, 3422-3428	4.1	49
112	Enhanced life-cycle supercapacitors by thermal treatment of mesophase-derived activated carbons. <i>Electrochimica Acta</i> , 2008 , 54, 305-310	6.7	49
111	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
110	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
109	Chemical activation of carbon mesophase pitches. <i>Journal of Colloid and Interface Science</i> , 2006 , 298, 341-7	9.3	43
108	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
107	High performance activated carbon for benzene/toluene adsorption from industrial wastewater. <i>Journal of Hazardous Materials</i> , 2011 , 192, 1525-32	12.8	42
106	Pyrolysis of petroleum residues: I. Yields and product analyses. <i>Carbon</i> , 1999 , 37, 1567-1582	10.4	42
105	On the chemistry of the oxidative stabilization and carbonization of carbonaceous mesophase. <i>Fuel</i> , 2002 , 81, 2061-2070	7.1	39

104	A highly adhesive PIL/IL gel polymer electrolyte for use in flexible solid state supercapacitors. <i>Electrochimica Acta</i> , 2019 , 299, 789-799	6.7	39
103	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
102	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
101	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
100	Thermally reduced graphite and graphene oxides in VRFBs. <i>Nano Energy</i> , 2013 , 2, 1322-1328	17.1	33
99	High value activated carbons from waste polystyrene foams. <i>Microporous and Mesoporous Materials</i> , 2018 , 267, 181-184	5.3	32
98	A novel approach for the production of chemically activated carbon fibers. <i>Chemical Engineering Journal</i> , 2015 , 260, 463-468	14.7	31
97	Carbon materials as electrodes for electrosorption of NaCl in aqueous solutions. <i>Adsorption</i> , 2011 , 17, 467-471	2.6	30
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	Voltage dependence of carbon-based supercapacitors for pseudocapacitance quantification. <i>Electrochimica Acta</i> , 2013 , 95, 225-229	6.7	29
94	New alternatives to graphite for producing graphene materials. <i>Carbon</i> , 2015 , 93, 812-818	10.4	28
93	Characterisation and feasibility as carbon fibre precursors of isotropic pitches derived from anthracene oil. <i>Fuel</i> , 2012 , 101, 9-15	7.1	28
92	Preparation of low toxicity pitches by thermal oxidative condensation of anthracene oil. <i>Environmental Science & Technology</i> , 2009 , 43, 8126-32	10.3	28
91	Tin/carbon composites as anodic material in Li-ion batteries obtained by copyrolysis of petroleum vacuum residue and SnO ₂ . <i>Carbon</i> , 2007 , 45, 1396-1409	10.4	27
90	Pyrolysis behaviour of stabilized self-sintering mesophase. <i>Carbon</i> , 2003 , 41, 413-422	10.4	27
89	Cokes of different origin as precursors of graphene oxide. <i>Fuel</i> , 2016 , 166, 400-403	7.1	26
88	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
87	C4F8 plasma treatment as an effective route for improving rate performance of natural/synthetic graphite anodes in lithium ion batteries. <i>Carbon</i> , 2016 , 103, 28-35	10.4	26

86	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
85	Carbon molecular sieves as model active electrode materials in supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2008 , 110, 431-435	5.3	25
84	Preparation of pitch-based carbon/copper composites for electrical applications. <i>Fuel</i> , 2004 , 83, 1625-1634	4.1	25
83	Pitch-based carbon composites with granular reinforcements for frictional applications. <i>Carbon</i> , 2000 , 38, 1043-1051	10.4	25
82	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
81	Influence of pressure variations on the formation and development of mesophase in a petroleum residue. <i>Carbon</i> , 1999 , 37, 445-455	10.4	24
80	Enhancing energy density of carbon-based supercapacitors using Prussian Blue modified positive electrodes. <i>Electrochimica Acta</i> , 2016 , 212, 848-855	6.7	23
79	Pyrolysis behaviour of petroleum pitches prepared at different conditions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2002 , 63, 223-239	6	23
78	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
77	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
76	The effect of the substrate on pitch wetting behaviour. <i>Fuel Processing Technology</i> , 2010 , 91, 1373-1377	7.2	21
75	Mesophase from Anthracene Oil-Based Pitches. <i>Energy & Fuels</i> , 2008 , 22, 4146-4150	4.1	21
74	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
73	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
72	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
71	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
70	Tuning graphene properties by a multi-step thermal reduction process. <i>Carbon</i> , 2015 , 90, 160-163	10.4	19
69	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

68	A novel method for mesophase separation. <i>Carbon</i> , 1997 , 35, 1191-1193	10.4	19
67	On the Chemical Composition of Thermally Treated Coal-Tar Pitches. <i>Energy & Fuels</i> , 2001 , 15, 214-223	4.3	19
66	Discussion on Operational Voltage and Efficiencies of Ionic-Liquid-Based Electrochemical Capacitors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8541-8549	3.8	18
65	Iron-carbon composites as electrode materials in lithium batteries. <i>Carbon</i> , 2006 , 44, 1762-1772	10.4	18
64	Thermal degradation of lignocellulosic materials treated with several acids. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 74, 337-343	6	18
63	Influence of oxidative stabilization on the electrochemical behaviour of coal tar pitch derived carbons in lithium batteries. <i>Electrochimica Acta</i> , 2005 , 50, 1225-1232	6.7	18
62	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
61	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
60	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
59	Spark plasma sintered BaTiO ₃ /graphene composites for thermoelectric applications. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3741-3746	6	16
58	Dielectric behavior of ceramic-graphene composites around the percolation threshold. <i>Nanoscale Research Letters</i> , 2015 , 10, 216	5	16
57	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
56	Influence of granular carbons on pitch properties?. <i>Fuel</i> , 2003 , 82, 1241-1250	7.1	16
55	Pyrolysis behaviour of pitches modified with different additives. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 73, 276-283	6	16
54	The influence of processing temperature on the structure and properties of mesophase-based polygranular graphites. <i>Journal of Materials Science</i> , 2004 , 39, 1213-1220	4.3	15
53	Assessment of the oxidative stabilisation of carbonaceous mesophase by thermal analysis techniques. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 911-926	6	15
52	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
51	Capacitance Evolution of Electrochemical Capacitors with Tailored Nanoporous Electrodes in Pure and Dissolved Ionic Liquids. <i>Fuel Cells</i> , 2010 , 10, 834-839	2.9	14

50	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
49	Contribution of the isotropic phase to the rheology of partially anisotropic coal-tar pitches. <i>Carbon</i> , 1999 , 37, 1059-1064	10.4	14
48	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
47	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
46	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
45	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
44	A multi-step exfoliation approach to maintain the lateral size of graphene oxide sheets. <i>Carbon</i> , 2014 , 80, 830-832	10.4	12
43	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
42	Preventing mesophase growth in petroleum pitches by the addition of coal-tar pitch. <i>Carbon</i> , 2003 , 41, 1854-1857	10.4	11
41	Co-pyrolysis of an aromatic petroleum residue with triphenylsilane. <i>Carbon</i> , 2001 , 39, 1001-1011	10.4	11
40	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	3.8	10
39	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
38	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
37	Influence of granular carbons on the pyrolysis behaviour of coal-tar pitches. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 825-840	6	10
36	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
35	Lignocellulose/pitch based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 649-657	8.4	9
34	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
33	Peculiarities of the production of graphene oxides with controlled properties from industrial coal liquids. <i>Fuel</i> , 2017 , 203, 253-260	7.1	8

32	Novel coal-based precursors for cokes with highly oriented microstructures. <i>Fuel</i> , 2012 , 95, 400-406	7.1	8
31	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
30	Influence of the oxidative stabilisation treatment time on the electrochemical performance of anthracene oils cokes as electrode materials for lithium batteries. <i>Journal of Power Sources</i> , 2006 , 161, 1324-1334	8.9	8
29	Evaluating capacitive deionization for water desalination by direct determination of chloride ions. <i>Desalination</i> , 2014 , 344, 396-401	10.3	7
28	Development of titanium-doped carbon-carbon composites. <i>Journal of Materials Science</i> , 2009 , 44, 2525-2532	4.3	7
27	Structural Characterization of High-Softening-Point Pitches By Oxidation with RuO ₄ . <i>Energy & Fuels</i> , 2001 , 15, 128-134	4.1	7
26	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
25	Electrochemical improvement of low-temperature petroleum cokes by chemical oxidation with H ₂ O ₂ for their use as anodes in lithium ion batteries. <i>Electrochimica Acta</i> , 2006 , 52, 1281-1289	6.7	6
24	Optimization of the preparation conditions of polygranular carbons from mesophase. <i>Journal of Materials Science</i> , 2003 , 38, 427-435	4.3	6
23	Microstructure and properties of pitch-based carbon composites. <i>Journal of Microscopy</i> , 1999 , 196, 213-249	4.3	6
22	Waste-polystyrene foams-derived magnetic carbon material for adsorption and redox supercapacitor applications. <i>Journal of Cleaner Production</i> , 2021 , 313, 127903	10.3	6
21	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
20	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
19	The effect of graphite addition on the mechanical and tribological properties of pitch-based granular carbon composites. <i>Journal of Materials Science</i> , 2008 , 43, 4541-4549	4.3	5
18	The effect of the reinforcing carbon on the microstructure of pitch-based granular composites. <i>Journal of Microscopy</i> , 2003 , 209, 81-93	1.9	5
17	Preparation and characterisation of pitch-based granular composites to be used in tribological applications. <i>Wear</i> , 2005 , 258, 1706-1716	3.5	5
16	Effect of oxidative stabilization on the electrochemical performance of carbon mesophases as electrode materials for lithium batteries. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 627-633	2.6	5
15	¹¹⁹ Sn Mössbauer spectroscopy analysis of SnO ₂ -C composites prepared from a Fuel Oil Pyrolysis precursor as anodes for Li-ion batteries. <i>Materials Chemistry and Physics</i> , 2013 , 138, 747-754	4.4	4

14	Behaviour of Ti-doped CFCs under thermal fatigue tests. <i>Fusion Engineering and Design</i> , 2011 , 86, 121-125	4
13	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
12	Structural changes during pitch-based carbon granular composites carbonisation. <i>Journal of Materials Science</i> , 2008 , 43, 906-921	4.3 4
11	Pitch/coke wetting behaviour. <i>Fuel</i> , 2005 ,	7.1 4
10	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
9	Behaviour of Ti-doped 3D carbon fibre composites under intense thermal shock tests. <i>Physica Scripta</i> , 2009 , T138, 014055	2.6 3
8	Influence of Granular Carbons on the Thermal Reactivity of Pitches. <i>Energy & Fuels</i> , 2004 , 18, 22-29	4.1 3
7	A new parameter relating the properties of semicokes and the resulting sintered carbons. <i>Carbon</i> , 1995 , 33, 1182-1184	10.4 2
6	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
5	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
4	Enhancement of the rate performance of plasma-treated platelet carbon nanofiber anodes in lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 4810-4817	3.7 1
3	Effect of oxidation on the performance of low-temperature petroleum cokes as anodes in lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 899-906	2.6 1
2	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
1	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