Juan M D Tascon

List of Publications by Year in descending order

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235 papers	17,915 citations	20817 60 h-index	14208 128 g-index
239 all docs	239 docs citations	239 times ranked	21159 citing authors

#	Article	IF	Citations
1	Graphene Oxide Dispersions in Organic Solvents. Langmuir, 2008, 24, 10560-10564.	3.5	2,511
2	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. Journal of Physical Chemistry C, 2010, 114, 6426-6432.	3.1	1,230
3	Raman microprobe studies on carbon materials. Carbon, 1994, 32, 1523-1532.	10.3	1,072
4	Atomic Force and Scanning Tunneling Microscopy Imaging of Graphene Nanosheets Derived from Graphite Oxide. Langmuir, 2009, 25, 5957-5968.	3.5	631
5	Highly Stable Performance of Supercapacitors from Phosphorus-Enriched Carbons. Journal of the American Chemical Society, 2009, 131, 5026-5027.	13.7	564
6	Synthetic carbons activated with phosphoric acid. Carbon, 2002, 40, 1493-1505.	10.3	483
7	High-throughput production of pristine graphene in an aqueous dispersion assisted by non-ionic surfactants. Carbon, 2011, 49, 1653-1662.	10.3	461
8	Structure and Reactivity of Perovskite-Type Oxides. Advances in Catalysis, 1989, , 237-328.	0.2	358
9	Surface chemistry of phosphorus-containing carbons of lignocellulosic origin. Carbon, 2005, 43, 2857-2868.	10.3	316
10	Preparation of graphene dispersions and graphene-polymer composites in organic media. Journal of Materials Chemistry, 2009, 19, 3591.	6.7	293
11	A possible buckybowl-like structure of zeolite templated carbon. Carbon, 2009, 47, 1220-1230.	10.3	243
12	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. Nano Research, 2013, 6, 216-233.	10.4	199
13	Comparative XRD, Raman, and TEM Study on Graphitization of PBO-Derived Carbon Fibers. Journal of Physical Chemistry C, 2012, 116, 257-268.	3.1	183
14	Oxygen plasma modification of pitch-based isotropic carbon fibres. Carbon, 2003, 41, 41-56.	10.3	181
15	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. Journal of Materials Chemistry, 2011, 21, 298-306.	6.7	173
16	UV light exposure of aqueous graphene oxide suspensions to promote their direct reduction, formation of grapheneâ€“metal nanoparticle hybrids and dye degradation. Carbon, 2012, 50, 1014-1024.	10.3	171
17	Activated carbons by pyrolysis of coffee bean husks in presence of phosphoric acid. Journal of Analytical and Applied Pyrolysis, 2003, 70, 779-784.	5.5	155
18	Influence of Porous Texture and Surface Chemistry on the CO₂ Adsorption Capacity of Porous Carbons: Acidic and Basic Site Interactions. ACS Applied Materials & Interfaces, 2014, 6, 21237-21247.	8.0	147

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19	Synthetic carbons activated with phosphoric acid III. Carbons prepared in air. Carbon, 2003, 41, 1181-1191.	10.3	141
20	Activated carbon fibers from Nomex by chemical activation with phosphoric acid. Carbon, 2004, 42, 1419-1426.	10.3	140
21	Effects of plasma oxidation on the surface and interfacial properties of ultra-high modulus carbon fibres. Composites Part A: Applied Science and Manufacturing, 2001, 32, 361-371.	7.6	131
22	Methods for Characterization of Inorganic and Mineral Matter in Coal:â€‰ A Critical Overview. Energy & Fuels, 2003, 17, 271-281.	5.1	130
23	Chemically Exfoliated MoS₂ Nanosheets as an Efficient Catalyst for Reduction Reactions in the Aqueous Phase. ACS Applied Materials & Interfaces, 2014, 6, 21702-21710.	8.0	126
24	A study of the effect of plasma treatment on the interfacial properties of carbon fibreâ€“thermoplastic composites. Carbon, 2005, 43, 1795-1799.	10.3	123
25	Composition of gases released during olive stones pyrolysis. Journal of Analytical and Applied Pyrolysis, 2002, 65, 313-322.	5.5	122
26	Pyrolysis of apple pulp: chemical activation with phosphoric acid. Journal of Analytical and Applied Pyrolysis, 2002, 63, 283-301.	5.5	117
27	Chemisorption and catalysis on LaMO3 oxides. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 939.	1.0	115
28	Effects of plasma oxidation on the surface and interfacial properties of carbon fibres/polycarbonate composites. Carbon, 2001, 39, 1057-1068.	10.3	115
29	Oxygen and phosphorus enriched carbons from lignocellulosic material. Carbon, 2007, 45, 1941-1950.	10.3	115
30	Surface chemical modifications induced on high surface area graphite and carbon nanofibers using different oxidation and functionalization treatments. Journal of Colloid and Interface Science, 2011, 355, 179-189.	9.4	110
31	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. RSC Advances, 2014, 4, 14115-14127.	3.6	101
32	Achieving Extremely Concentrated Aqueous Dispersions of Graphene Flakes and Catalytically Efficient Graphene-Metal Nanoparticle Hybrids with Flavin Mononucleotide as a High-Performance Stabilizer. ACS Applied Materials & Interfaces, 2015, 7, 10293-10307.	8.0	101
33	Nomex-derived activated carbon fibers as electrode materials in carbon based supercapacitors. Journal of Power Sources, 2006, 153, 419-423.	7.8	98
34	Investigating the influence of surfactants on the stabilization of aqueous reduced graphene oxide dispersions and the characteristics of their composite films. Carbon, 2012, 50, 3184-3194.	10.3	97
35	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. Nanoscale, 2015, 7, 2374-2390.	5.6	95
36	Electrochemical Exfoliation of Graphite in Aqueous Sodium Halide Electrolytes toward Low Oxygen Content Graphene for Energy and Environmental Applications. ACS Applied Materials & Interfaces, 2017, 9, 24085-24099.	8.0	92

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37	Synthetic carbons activated with phosphoric acid. Carbon, 2002, 40, 1507-1519.	10.3	89
38	Thermal Transformations of Kevlar Aramid Fibers During Pyrolysis: Infrared and Thermal Analysis Studies. Chemistry of Materials, 1994, 6, 1918-1924.	6.7	87
39	Capacitive Behaviours of Phosphorus-Rich Carbons Derived from Lignocelluloses. Electrochimica Acta, 2014, 137, 219-227.	5.2	85
40	Electrolytic exfoliation of graphite in water with multifunctional electrolytes: en route towards high quality, oxide-free graphene flakes. Nanoscale, 2016, 8, 2982-2998.	5.6	84
41	Atomic Force Microscopy and Infrared Spectroscopy Studies of the Thermal Degradation of Nomex Aramid Fibers. Chemistry of Materials, 2001, 13, 4297-4304.	6.7	83
42	Nitrogen in aramid-based activated carbon fibers by TPD, XPS and XANES. Carbon, 2006, 44, 2452-2462.	10.3	83
43	High quality, low oxygen content and biocompatible graphene nanosheets obtained by anodic exfoliation of different graphite types. Carbon, 2015, 94, 729-739.	10.3	83
44	Activated Carbon Materials of Uniform Porosity from Polyaramid Fibers. Chemistry of Materials, 2005, 17, 5893-5908.	6.7	82
45	Tuning of texture and surface chemistry of carbon xerogels. Journal of Colloid and Interface Science, 2008, 324, 150-155.	9.4	81
46	Studies on pyrolysis of Nomex polyaramid fibers. Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 105-115.	5.5	80
47	Synthesis, characterization and dye removal capacities of N-doped mesoporous carbons. Journal of Colloid and Interface Science, 2015, 450, 91-100.	9.4	79
48	Chemical and microscopic analysis of graphene prepared by different reduction degrees of graphene oxide. Journal of Alloys and Compounds, 2012, 536, S532-S537.	5.5	74
49	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS₂ Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 27974-27986.	8.0	73
50	Modification of the surface properties of an activated carbon by oxygen plasma treatment. Fuel, 1998, 77, 613-624.	6.4	71
51	Shrinkage Properties of Wool Treated with Low Temperature Plasma and Chitosan Biopolymer. Textile Reseach Journal, 1999, 69, 811-815.	2.2	71
52	Introduction of acidic groups at the surface of activated carbon by microwave-induced oxygen plasma at low pressure. Carbon, 2000, 38, 1021-1029.	10.3	71
53	Pyrolysis of apple pulp: effect of operation conditions and chemical additives. Journal of Analytical and Applied Pyrolysis, 2002, 62, 93-109.	5.5	69
54	Application of scanning tunneling and atomic force microscopies to the characterization of microporous and mesoporous materials. Microporous and Mesoporous Materials, 2003, 65, 93-126.	4.4	68

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55	Activated carbon xerogels with a cellular morphology derived from hydrothermally carbonized glucose-graphene oxide hybrids and their performance towards CO2 and dye adsorption. Carbon, 2015, 81, 137-147.	10.3	68
56	Inorganic matter characterization in vegetable biomass feedstocks1. Fuel, 2002, 81, 1161-1169.	6.4	67
57	A quantitative analysis of the dispersion behavior of reduced graphene oxide in solvents. Carbon, 2014, 75, 390-400.	10.3	66
58	Effect of nanostructure on the supercapacitor performance of activated carbon xerogels obtained from hydrothermally carbonized glucose-graphene oxide hybrids. Carbon, 2016, 105, 474-483.	10.3	66
59	Studies on the Thermal Degradation of Poly (p-phenylene benzobisoxazole). Chemistry of Materials, 2003, 15, 4052-4059.	6.7	63
60	Retention of mercury in activated carbons in coal combustion and gasification flue gases. Fuel Processing Technology, 2002, 77-78, 353-358.	7.2	60
61	Comparative study of the air and oxygen plasma oxidation of highly oriented pyrolytic graphite: a scanning tunneling and atomic force microscopy investigation. Carbon, 2000, 38, 1183-1197.	10.3	59
62	Activated carbon fibers with a high content of surface functional groups by phosphoric acid activation of PPTA. Journal of Colloid and Interface Science, 2011, 361, 307-315.	9.4	58
63	Investigating the Dispersion Behavior in Solvents, Biocompatibility, and Use as Support for Highly Efficient Metal Catalysts of Exfoliated Graphitic Carbon Nitride. ACS Applied Materials & Interfaces, 2015, 7, 24032-24045.	8.0	57
64	Oxygen plasma modification of submicron vapor grown carbon fibers as studied by scanning tunneling microscopy. Carbon, 2002, 40, 1101-1108.	10.3	56
65	Aromatic polyamides as new precursors of nitrogen and oxygen-doped ordered mesoporous carbons. Carbon, 2014, 70, 119-129.	10.3	55
66	Surface interactions of NO and CO with LaMO3 oxides. Journal of Catalysis, 1985, 95, 558-566.	6.2	53
67	Multiscale Imaging and Tip-Scratch Studies Reveal Insight into the Plasma Oxidation of Graphite. Langmuir, 2007, 23, 8932-8943.	3.5	53
68	Effect of oxygen plasma treatment of PPTA and PBO fibers on the interfacial properties of single fiber/epoxy composites studied by Raman spectroscopy. Composites Science and Technology, 2011, 71, 784-790.	7.8	53
69	Porous texture of activated carbons prepared by phosphoric acid activation of apple pulp. Carbon, 2001, 39, 1111-1115.	10.3	52
70	Zeta Potential as a Tool to Characterize Plasma Oxidation of Carbon Fibers. Journal of Colloid and Interface Science, 1997, 192, 363-367.	9.4	51
71	Microporous texture of activated carbon fibres prepared from Nomex aramid fibres. Microporous and Mesoporous Materials, 2000, 34, 171-179.	4.4	51
72	Surface modification of nanocast ordered mesoporous carbons through a wet oxidation method. Carbon, 2013, 62, 193-203.	10.3	51

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73	A comparative study of the thermal decomposition of apple pulp in the absence and presence of phosphoric acid. Polymer Degradation and Stability, 2002, 75, 375-383.	5.8	50
74	Adsorption of CO2 on the perovskite-type oxide LaCoO3. Journal of the Chemical Society Faraday Transactions I, 1981, 77, 591.	1.0	49
75	Surface characterisation of plasma-modified poly(ethylene terephthalate). Journal of Colloid and Interface Science, 2006, 293, 353-363.	9.4	49
76	Determining the thickness of chemically modified graphenes by scanning probe microscopy. Carbon, 2010, 48, 2657-2660.	10.3	46
77	A â€œNanopore Lithographyâ€•Strategy for Synthesizing Hierarchically Micro/Mesoporous Carbons from ZIF-8/Graphene Oxide Hybrids for Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2017, 9, 44740-44755.	8.0	46
78	Synthesis of ordered microâ€“mesoporous carbons by activation of SBA-15 carbon replicas. Microporous and Mesoporous Materials, 2012, 151, 390-396.	4.4	44
79	Infrared spectroscopic study of the adsorption of pyridine, carbon monoxide and carbon dioxide on the perovskite-type oxides LaMO3. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 1089.	1.0	43
80	Carbon molecular sieve cloths prepared by chemical vapour deposition of methane for separation of gas mixtures. Microporous and Mesoporous Materials, 2005, 77, 109-118.	4.4	43
81	A simple strategy to improve the yield of graphene nanosheets in the anodic exfoliation of graphite foil. Carbon, 2017, 115, 625-628.	10.3	43
82	Aqueous Cathodic Exfoliation Strategy toward Solution-Processable and Phase-Preserved MoS₂ Nanosheets for Energy Storage and Catalytic Applications. ACS Applied Materials & Interfaces, 2019, 11, 36991-37003.	8.0	43
83	Effects of oxygen and carbon dioxide plasmas on the surface of poly(ethylene terephthalate). Journal of Colloid and Interface Science, 2005, 287, 57-66.	9.4	42
84	Identifying efficient natural bioreductants for the preparation of graphene and graphene-metal nanoparticle hybrids with enhanced catalytic activity from graphite oxide. Carbon, 2013, 63, 30-44.	10.3	42
85	Atomic force microscopy investigation of the surface modification of highly oriented pyrolytic graphite by oxygen plasma. Journal of Materials Chemistry, 2000, 10, 1585-1591.	6.7	41
86	N2Physisorption on Carbon Nanotubes:Â Computer Simulation and Experimental Results. Journal of Physical Chemistry B, 2003, 107, 8905-8916.	2.6	41
87	Characterization of synthetic carbons activated with phosphoric acid. Applied Surface Science, 2002, 200, 196-202.	6.1	40
88	Porous Texture Evolution in Nomex-Derived Activated Carbon Fibers. Journal of Colloid and Interface Science, 2002, 252, 169-176.	9.4	39
89	Nitrogen doped mesoporous carbon aerogels and implications for electrocatalytic oxygen reduction reactions. Microporous and Mesoporous Materials, 2016, 230, 135-144.	4.4	39
90	XPS characterization of coal surfaces: Study of aerial oxidation of brown coals. Surface and Interface Analysis, 1988, 12, 565-571.	1.8	37

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91	Microporous texture of activated carbon fibers prepared from aramid fiber pulp. Microporous Materials, 1997, 11, 303-311.	1.6	37
92	A comparison between physically and chemically driven etching in the oxidation of graphite surfaces. Journal of Colloid and Interface Science, 2010, 344, 451-459.	9.4	37
93	Surface Characterization of PPTA Fibers Using Inverse Gas Chromatography. Macromolecules, 2002, 35, 5085-5096.	4.8	36
94	Global and Local Oxidation Behavior of Reduced Graphene Oxide. Journal of Physical Chemistry C, 2011, 115, 7956-7966.	3.1	36
95	Suitability of thermogravimetry and differential thermal analysis techniques for characterization of pitches. Fuel, 1992, 71, 611-617.	6.4	34
96	Nomex polyaramid as a precursor for activated carbon fibres by phosphoric acid activation. Temperature and time effects. Microporous and Mesoporous Materials, 2004, 75, 73-80.	4.4	34
97	Effect of Phosphoric Acid on Chemical Transformations during Nomex Pyrolysis. Chemistry of Materials, 2004, 16, 2639-2647.	6.7	34
98	Modification of the pyrolysis/carbonization of PPTA polymer by intermediate isothermal treatments. Carbon, 2008, 46, 985-993.	10.3	34
99	Atomic Vacancy Engineering of Graphitic Surfaces: Controlling the Generation and Harnessing the Migration of the Single Vacancy. Journal of Physical Chemistry C, 2009, 113, 10249-10255.	3.1	34
100	Mineral matter in coals of different rank from the Asturian Central basin. Fuel, 1992, 71, 367-372.	6.4	33
101	Graphitization of carbon nanofibers: visualizing the structural evolution on the nanometer and atomic scales by scanning tunneling microscopy. Applied Physics A: Materials Science and Processing, 2005, 80, 675-682.	2.3	33
102	Graphitization of highly porous carbons derived from poly(p-phenylene benzobisoxazole). Carbon, 2012, 50, 2929-2940.	10.3	33
103	Aqueous Exfoliation of Transition Metal Dichalcogenides Assisted by DNA/RNA Nucleotides: Catalytically Active and Biocompatible Nanosheets Stabilized by Acidâ€“Base Interactions. ACS Applied Materials & Interfaces, 2017, 9, 2835-2845.	8.0	33
104	Characterization of Microporosity and Mesoporosity in Carbonaceous Materials by Scanning Tunneling Microscopy. Langmuir, 2001, 17, 474-480.	3.5	32
105	Structural Investigation of Zeolite-templated, Ordered Microporous Carbon by Scanning Tunneling Microscopy and Raman Spectroscopy. Langmuir, 2005, 21, 8817-8823.	3.5	32
106	Preparation of hierarchical micro-mesoporous aluminosilicate composites by simple Y zeolite/MCM-48 silica assembly. Journal of Alloys and Compounds, 2014, 583, 60-69.	5.5	32
107	Organic affinity of trace elements in Asturian bituminous coals. Fuel, 1992, 71, 909-917.	6.4	31
108	Effect of Various Treatments on Carbon Fiber Surfaces Studied by Raman Microprobe Spectrometry. Applied Spectroscopy, 1998, 52, 356-360.	2.2	31

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109	Mechanical properties of high-strength carbon fibres. Validation of an end-effect model for describing experimental data. Carbon, 2004, 42, 1275-1278.	10.3	31
110	Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. Carbon, 2012, 50, 577-585.	10.3	31
111	Developing green photochemical approaches towards the synthesis of carbon nanofiber- and graphene-supported silver nanoparticles and their use in the catalytic reduction of 4-nitrophenol. RSC Advances, 2013, 3, 18323.	3.6	31
112	Physicochemical properties of LaFeO3. Kinetics of reduction and of oxygen adsorption. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 2399.	1.0	29
113	Chemical transformations resulting from pyrolysis and CO2 activation of Kevlar flocks. Carbon, 1997, 35, 967-976.	10.3	29
114	Fibrous Carbon Molecular Sieves by Chemical Vapor Deposition of Benzene. Gas Separation Ability. Chemistry of Materials, 2002, 14, 4328-4333.	6.7	29
115	Early Stages of Plasma Oxidation of Graphite:Â Nanoscale Physicochemical Changes As Detected by Scanning Probe Microscopies. Langmuir, 2002, 18, 4314-4323.	3.5	29
116	Highly efficient silver-assisted reduction of graphene oxide dispersions at room temperature: mechanism, and catalytic and electrochemical performance of the resulting hybrids. Journal of Materials Chemistry A, 2014, 2, 7295-7305.	10.3	29
117	A study of NO and CO interactions with LaMnO3. Journal of Colloid and Interface Science, 1987, 119, 100-107.	9.4	28
118	Carbon reactivity in an oxygen plasma: a comparison with reactivity in molecular oxygen. Carbon, 2001, 39, 1135-1146.	10.3	28
119	High quality, low-oxidized graphene via anodic exfoliation with table salt as an efficient oxidation-preventing co-electrolyte for water/oil remediation and capacitive energy storage applications. Applied Materials Today, 2018, 11, 246-254.	4.3	28
120	Preparation and porous texture characteristics of fibrous ultrahigh surface area carbons. Journal of Materials Chemistry, 2002, 12, 3213-3219.	6.7	27
121	Characterization of aramid based activated carbon fibres by adsorption and immersion techniques. Carbon, 2002, 40, 1376-1380.	10.3	27
122	Catalytic synergy between MoO3 and BiPO4 in N-ethyl formamide dehydration I. Catalytic properties, reducibility, and reoxidizability of mixtures of MoO3 and BiPO4. Journal of Catalysis, 1986, 97, 287-299.	6.2	26
123	Catalytic synergy between MoO3 and BiPO4 in N-ethyl formamide dehydration II. Characterization of mixtures of MoO3 and BiPO4. Journal of Catalysis, 1986, 97, 300-311.	6.2	26
124	Surface Characterization of PBO Fibers. Macromolecules, 2003, 36, 8662-8672.	4.8	26
125	Nanoporous carbon fibres by pyrolysis of nomex polyaramid fibres. Journal of Thermal Analysis and Calorimetry, 2005, 79, 529-532.	3.6	26
126	Controlled generation of atomic vacancies in chemical vapor deposited graphene by microwave oxygen plasma. Carbon, 2014, 79, 664-669.	10.3	26

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127	The importance of electrode characterization to assess the supercapacitor performance of ordered mesoporous carbons. Microporous and Mesoporous Materials, 2016, 235, 1-8.	4.4	26
128	Physisorption of Simple Gases on C60Fullerene. Langmuir, 2000, 16, 1343-1348.	3.5	25
129	Atomic-scale scanning tunneling microscopy study of plasma-oxidized ultrahigh-modulus carbon fiber surfaces. Journal of Colloid and Interface Science, 2003, 258, 276-282.	9.4	25
130	Nanoscale investigation of the structural and chemical changes induced by oxidation on carbon black surfaces: A scanning probe microscopy approach. Journal of Colloid and Interface Science, 2005, 288, 190-199.	9.4	25
131	Synthesis and characterization of grapheneâ€“mesoporous silica nanoparticle hybrids. Microporous and Mesoporous Materials, 2012, 160, 18-24.	4.4	25
132	pH-responsive ordered mesoporous carbons for controlled ibuprofen release. Carbon, 2015, 94, 152-159.	10.3	25
133	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 70, 37-43.	1.4	24
134	Selective oxidation of propene on a molybdenum-prasedodymium-bismuth catalyst. Industrial & Engineering Chemistry Research, 1987, 26, 1419-1424.	3.7	23
135	Correlation between Arrhenius kinetic parameters in the reaction of different carbon materials with oxygen. Energy & Fuels, 1993, 7, 1141-1145.	5.1	23
136	Avoiding structure degradation during activation of ordered mesoporous carbons. Carbon, 2012, 50, 3826-3835.	10.3	23
137	Interactions between carboxyl groups and inorganic elements in Spanish brown coals. Fuel, 1990, 69, 362-367.	6.4	22
138	Effects of the mesostructural order on the electrochemical performance of hierarchical microâ€“mesoporous carbons. Journal of Materials Chemistry A, 2014, 2, 12023-12030.	10.3	22
139	Temperature-programmed desorption study of the interactions of H2, CO and CO2 with LaMnO3. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 3149.	1.0	21
140	Thermal behaviour of extrographic fractions of coal tar and petroleum pitches. Fuel, 1997, 76, 179-187.	6.4	21
141	Interactions between organic matter and minerals in two bituminous coals of different rank. International Journal of Coal Geology, 1997, 33, 369-386.	5.0	21
142	Structural and surface modifications of carbon nanotubes when submitted to high temperature annealing treatments. Journal of Alloys and Compounds, 2012, 536, S460-S463.	5.5	21
143	Efficient Pt electrocatalysts supported onto flavin mononucleotideâ€“exfoliated pristine graphene for the methanol oxidation reaction. Electrochimica Acta, 2017, 231, 386-395.	5.2	21
144	Influence of weathering process on the flotation response of coal. Fuel, 1991, 70, 1391-1397.	6.4	20

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145	Comparative analysis of pitches by extrography and thermal analysis techniques. Carbon, 1994, 32, 1001-1010.	10.3	20
146	Triangular versus honeycomb structure in atomic-resolution STM images of graphite. Carbon, 2001, 39, 476-479.	10.3	20
147	Thermal decomposition of poly(p-phenylene benzobisoxazole) fibres: monitoring the chemical and nanostructural changes by Raman spectroscopy and scanning probe microscopy. Polymer Degradation and Stability, 2004, 86, 263-268.	5.8	20
148	Imaging the structure and porosity of active carbons by scanning tunneling microscopy. Carbon, 2006, 44, 2469-2478.	10.3	20
149	Complementary X-ray scattering and high resolution imaging of nanostructure development in thermally treated PBO fibers. Carbon, 2011, 49, 2960-2970.	10.3	20
150	A comparison of various characterization techniques for low-temperature oxidation of coal. Fuel Processing Technology, 1987, 15, 245-256.	7.2	19
151	Energy Storage on Ultrahigh Surface Area Activated Carbon Fibers Derived from PMIA. ChemSusChem, 2013, 6, 1406-1413.	6.8	19
152	Evolution of the complex surface chemistry in mesoporous carbons obtained from polyaramide precursors. Applied Surface Science, 2014, 299, 19-28.	6.1	19
153	Catalytic synergy between MoO3 and BiPO4 in N-ethyl formamide dehydration III. An ESR study of reduction properties of the mixtures of MoO3 and BiPO4. Journal of Catalysis, 1986, 97, 312-320.	6.2	18
154	Effect of some precursor characteristics on the porous texture of activated carbon fibres prepared from Nomex aramid fibres. Microporous and Mesoporous Materials, 2000, 41, 319-321.	4.4	18
155	Surface characterization of submicron vapor grown carbon fibers by scanning tunneling microscopy. Carbon, 2001, 39, 1575-1587.	10.3	18
156	Porous texture evolution in activated carbon fibers prepared from poly (p-phenylene benzobisoxazole) by carbon dioxide activation. Microporous and Mesoporous Materials, 2008, 116, 622-626.	4.4	18
157	Activated Carbon Fibers with a High Heteroatom Content by Chemical Activation of PBO with Phosphoric Acid. Langmuir, 2012, 28, 5850-5860.	3.5	18
158	Adhesion artefacts in atomic force microscopy imaging. Journal of Microscopy, 2000, 200, 109-113.	1.8	17
159	The effect of demineralisation on a lignite surface properties. Fuel, 2004, 83, 845-850.	6.4	17
160	Adsorption of n-Alkanes on Plasma-Oxidized High-Strength Carbon Fibers. Journal of Colloid and Interface Science, 2002, 247, 290-302.	9.4	16
161	Carbon Molecular Sieves for Air Separation from Nomex Aramid Fibers. Journal of Colloid and Interface Science, 2002, 254, 414-416.	9.4	16
162	Adsorption of polar probe molecules on plasma-oxidised high-strength carbon fibres. Fuel Processing Technology, 2002, 77-78, 359-364.	7.2	16

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163	Real-Time Monitoring of Polymer Swelling on the Nanometer Scale by Atomic Force Microscopy. Langmuir, 2006, 22, 4728-4733.	3.5	16
164	Microporosity and mesoporosity of PPTA-derived carbons. Effect of PPTA thermal pretreatment. Microporous and Mesoporous Materials, 2008, 114, 185-192.	4.4	16
165	Preparation, characterization and fundamental studies on graphenes by liquid-phase processing of graphite. Journal of Alloys and Compounds, 2012, 536, S450-S455.	5.5	16
166	Thermoanalytical studies of pitch pyrolysis. Journal of Thermal Analysis, 1992, 38, 811-819.	0.6	15
167	Beneficial effects of phosphoric acid as an additive in the preparation of activated carbon fibers from Nomex aramid fibers by physical activation. Fuel Processing Technology, 2002, 77-78, 237-244.	7.2	15
168	Chemical and structural modifications of carbon nanofibers with different degrees of graphitic order following oxygen plasma treatments. Materials Chemistry and Physics, 2013, 138, 615-622.	4.0	15
169	Thermal behavior of fullerenes in different gas atmospheres. Carbon, 1996, 34, 1239-1248.	10.3	14
170	Grafting of adipic anhydride to carbon nanotubes through a Diels-Alder cycloaddition/oxidation cascade reaction. Carbon, 2016, 98, 421-431.	10.3	14
171	The characterization of organomineral components of low-rank coals. Fuel Processing Technology, 1990, 25, 81-87.	7.2	13
172	Mineralogical and chemical characterisation of coals from Southern Chile. International Journal of Coal Geology, 2000, 44, 85-94.	5.0	13
173	Characterization of porous texture in composite adsorbents based on exfoliated graphite and polyfurfuryl alcohol. Fuel Processing Technology, 2002, 77-78, 401-407.	7.2	13
174	The use of microcalorimetry to assess the size exclusion properties of carbon molecular sieves. Thermochimica Acta, 2004, 420, 141-144.	2.7	13
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