Juan M D Tascon

List of Publications by Year in Descending Order

235 papers	15,488 citations	57 h-index	118 g-index
239 ext. papers	16,645 ext. citations	7.1 avg, IF	6.45 L-index

#	Paper	IF	Citations
235	A Simple and Expeditious Route to Phosphate-Functionalized, Water-Processable Graphene for Capacitive Energy Storage. *ACS Applied Materials & Interfaces*, **2021**, 13, 54860-54873	9.5	2
234	Aqueous Cathodic Exfoliation Strategy toward Solution-Processable and Phase-Preserved MoS Nanosheets for Energy Storage and Catalytic Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 36991-37003	9.5	24
233	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	6.6	17
232	A biosupramolecular approach to graphene: Complementary nucleotide-nucleobase combinations as enhanced stabilizers towards aqueous-phase exfoliation and functional graphene-nucleotide hydrogels. *Carbon*, **2018**, 129, 321-334	10.4	4
231	A simple strategy to improve the yield of graphene nanosheets in the anodic exfoliation of graphite foil. *Carbon*, **2017**, 115, 625-628	10.4	29
230	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	9.5	74
229	Aqueous Exfoliation of Transition Metal Dichalcogenides Assisted by DNA/RNA Nucleotides: Catalytically Active and Biocompatible Nanosheets Stabilized by Acid-Base Interactions. *ACS Applied Materials & Interfaces*, **2017**, 9, 2835-2845	9.5	27
228	Efficient Pt electrocatalysts supported onto flavin mononucleotide–exfoliated pristine graphene for the methanol oxidation reaction. *Electrochimica Acta*, **2017**, 231, 386-395	6.7	19
227	A "Nanopore Lithography" 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	9.5	28
226	Nitrogen doped mesoporous carbon aerogels and implications for electrocatalytic oxygen reduction reactions. *Microporous and Mesoporous Materials*, **2016**, 230, 135-144	5.3	29
225	Diffusion of molecular hydrogen in carbon aerogel. *Carbon*, **2016**, 98, 572-581	10.4	8
224	Grafting of adipic anhydride to carbon nanotubes through a Diels-Alder cycloaddition/oxidation cascade reaction. *Carbon*, **2016**, 98, 421-431	10.4	12
223	Electrolytic exfoliation of graphite in water with multifunctional electrolytes: en route towards high quality, oxide-free graphene flakes. *Nanoscale*, **2016**, 8, 2982-98	7.7	75
222	Effect of nanostructure on the supercapacitor performance of activated carbon xerogels obtained from hydrothermally carbonized glucose-graphene oxide hybrids. *Carbon*, **2016**, 105, 474-483	10.4	57
221	Synthesis and properties of TiO2-P2O5 and SiO2-TiO2-P2O5 porous hybrids obtained by templating in highly concentrated emulsions. *Ceramics International*, **2016**, 42, 18965-18973	5.1	3
220	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS Nanosheets. *ACS Applied Materials & Interfaces*, **2016**, 8, 27974-27986	9.5	56
219	The importance of electrode characterization to assess the supercapacitor performance of ordered mesoporous carbons. *Microporous and Mesoporous Materials*, **2016**, 235, 1-8	5.3	23

218	High quality, low oxygen content and biocompatible graphene nanosheets obtained by anodic exfoliation of different graphite types. *Carbon*, **2015**, 94, 729-739	10.4	63
217	pH-responsive ordered mesoporous carbons for controlled ibuprofen release. *Carbon*, **2015**, 94, 152-159	10.4	18
216	Synthesis, characterization and dye removal capacities of N-doped mesoporous carbons. *Journal of Colloid and Interface Science*, **2015**, 450, 91-100	9.3	67
215	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, 10293-307	9.5	85
214	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, 24032-45	9.5	44
213	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. *Nanoscale*, **2015**, 7, 2374-90	7.7	83
212	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	10.4	59
211	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. *RSC Advances*, **2014**, 4, 14115-14127	3.7	90
210	A quantitative analysis of the dispersion behavior of reduced graphene oxide in solvents. *Carbon*, **2014**, 75, 390-400	10.4	54
209	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, 21237-47	9.5	107
208	The solvent effect on the sidewall functionalization of multi-walled carbon nanotubes with maleic anhydride. *Carbon*, **2014**, 78, 401-414	10.4	3
207	Controlled generation of atomic vacancies in chemical vapor deposited graphene by microwave oxygen plasma. *Carbon*, **2014**, 79, 664-669	10.4	26
206	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	13	25
205	Evolution of the complex surface chemistry in mesoporous carbons obtained from polyaramide precursors. *Applied Surface Science*, **2014**, 299, 19-28	6.7	18
204	Effects of the mesostructural order on the electrochemical performance of hierarchical micro–mesoporous carbons. *Journal of Materials Chemistry A*, **2014**, 2, 12023-12030	13	18
203	Capacitive Behaviours of Phosphorus-Rich Carbons Derived from Lignocelluloses. *Electrochimica Acta*, **2014**, 137, 219-227	6.7	70
202	Chemically exfoliated MoS₂ nanosheets as an efficient catalyst for reduction reactions in the aqueous phase. *ACS Applied Materials & Interfaces*, **2014**, 6, 21702-10	9.5	99
201	Preparation of hierarchical micro-mesoporous aluminosilicate composites by simple Y zeolite/MCM-48 silica assembly. *Journal of Alloys and Compounds*, **2014**, 583, 60-69	5.7	29

200	Hierarchical micro-mesoporous carbons by direct replication of bimodal aluminosilicate templates. *Microporous and Mesoporous Materials*, **2014**, 190, 156-164	5.3	7
199	Aromatic polyamides as new precursors of nitrogen and oxygen-doped ordered mesoporous carbons. *Carbon*, **2014**, 70, 119-129	10.4	53
198	Energy storage on ultrahigh surface area activated carbon fibers derived from PMIA. *ChemSusChem* , **2013**, 6, 1406-13	8.3	16
197	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	10.4	38
196	Surface modification of nanocast ordered mesoporous carbons through a wet oxidation method. *Carbon*, **2013**, 62, 193-203	10.4	40
195	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	3.7	28
194	Discovery of effective solvents for platelet-type graphite nanofibers. *Carbon*, **2013**, 53, 222-230	10.4	8
193	Tailoring of the interfacial properties of polymeric single fibre-reinforced epoxy composites by non-oxidative plasma treatments. *Composites Part A: Applied Science and Manufacturing*, **2013**, 50, 102-109	8.4	11
192	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	4.4	14
191	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. *Nano Research*, **2013**, 6, 216-233	10	165
190	One-pot endo/exotemplating of hierarchical micro-mesoporous carbons. *Carbon*, **2013**, 54, 365-377	10.4	12
189	Effects of phosphoric acid as additive in the preparation of activated carbon fibers from poly(p-phenylene benzobisoxazole) by carbon dioxide activation. *Journal of Analytical and Applied Pyrolysis*, **2012**, 95, 68-74	6	10
188	Synthesis of ordered micro□mesoporous carbons by activation of SBA-15 carbon replicas. *Microporous and Mesoporous Materials*, **2012**, 151, 390-396	5.3	44
187	Synthesis and characterization of graphene□mesoporous silica nanoparticle hybrids. *Microporous and Mesoporous Materials*, **2012**, 160, 18-24	5.3	25
186	Influence of plasma surface treatments on kink band formation in PBO fibers during compression. *Journal of Applied Polymer Science*, **2012**, 123, 2052-2063	2.9	13
185	Preparation, characterization and fundamental studies on graphenes by liquid-phase processing of graphite. *Journal of Alloys and Compounds*, **2012**, 536, S450-S455	5.7	14
184	Porosity Development in Carbon Nanofibers by Physical and Chemical Activation. *Journal of Nano Research*, **2012**, 17, 211-227	1	2
183	Activated carbon fibers with a high heteroatom content by chemical activation of PBO with phosphoric acid. *Langmuir*, **2012**, 28, 5850-60	4	14

182	N-containing carbons from styrene–divinylbenzene copolymer by urea treatment. *Applied Surface Science*, **2012**, 258, 2410-2415	6.7	7
181	Chemical and microscopic analysis of graphene prepared by different reduction degrees of graphene oxide. *Journal of Alloys and Compounds*, **2012**, 536, S532-S537	5.7	64
180	Structural and surface modifications of carbon nanotubes when submitted to high temperature annealing treatments. *Journal of Alloys and Compounds*, **2012**, 536, S460-S463	5.7	19
179	Comparative XRD, Raman, and TEM Study on Graphitization of PBO-Derived Carbon Fibers. *Journal of Physical Chemistry C*, **2012**, 116, 257-268	3.8	150
178	Nanostructure evolution in heat-treated porous carbons derived from PBO polymer. *Journal of Alloys and Compounds*, **2012**, 536, S464-S468	5.7	5
177	Adsorption by Phosphorus-Containing Carbons **2012**, 245-267		6
176	Morphology and adsorption properties of chemically modified MWCNT probed by nitrogen, n-propane and water vapor. *Carbon*, **2012**, 50, 577-585	10.4	27
175	UV light exposure of aqueous graphene oxide suspensions to promote their direct reduction, formation of graphene–metal nanoparticle hybrids and dye degradation. *Carbon*, **2012**, 50, 1014-1024	10.4	153
174	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	10.4	81
173	Graphitization of highly porous carbons derived from poly(p-phenylene benzobisoxazole). *Carbon*, **2012**, 50, 2929-2940	10.4	29
172	Avoiding structure degradation during activation of ordered mesoporous carbons. *Carbon*, **2012**, 50, 3826-3835	10.4	22
171	High-throughput production of pristine graphene in an aqueous dispersion assisted by non-ionic surfactants. *Carbon*, **2011**, 49, 1653-1662	10.4	403
170	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. *Journal of Materials Chemistry*, **2011**, 21, 298-306		154
169	Surface modification of high-performance polymeric fibers by an oxygen plasma. A comparative study of poly(p-phenylene terephthalamide) and poly(p-phenylene benzobisoxazole). *Journal of Chromatography A*, **2011**, 1218, 3781-90	4.5	7
168	Effect of Plasma Treatments of Bisphenol A Polycarbonate on the Characteristics of Carbon Materials Obtained by Further Pyrolysis. *Plasma Processes and Polymers*, **2011**, 8, 942-950	3.4	3
167	Global and Local Oxidation Behavior of Reduced Graphene Oxide. *Journal of Physical Chemistry C*, **2011**, 115, 7956-7966	3.8	34
166	Complementary X-ray scattering and high resolution imaging of nanostructure development in thermally treated PBO fibers. *Carbon*, **2011**, 49, 2960-2970	10.4	17
165	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	8.6	49

164	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, 179-89	9.3	95
163	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, 307-15	9.3	49
162	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. *Journal of Physical Chemistry C*, **2010**, 114, 6426-6432	3.8	1065
161	A comparison between physically and chemically driven etching in the oxidation of graphite surfaces. *Journal of Colloid and Interface Science*, **2010**, 344, 451-9	9.3	31
160	A study of the surface morphology of poly(p-phenylene terephthalamide) chars using scanning probe microscopy. *Polymer Degradation and Stability*, **2010**, 95, 702-707	4.7	5
159	Determining the thickness of chemically modified graphenes by scanning probe microscopy. *Carbon* , **2010**, 48, 2657-2660	10.4	37
158	The key role of microtexture in the graphitisation of PBO fibre chars as seen by X-ray scattering and transmission electron microscopy. *Carbon*, **2010**, 48, 3968-3970	10.4	5
157	Effect of PPTA pre-impregnation with phosphoric acid on the porous texture of carbons prepared by CO2 activation of PPTA chars. *Microporous and Mesoporous Materials*, **2009**, 119, 284-289	5.3	9
156	Porosity development in chars from thermal degradation of poly(p-phenylene benzobisoxazole). *Polymer Degradation and Stability*, **2009**, 94, 7-12	4.7	10
155	Porosity development in chars from thermal decomposition of poly(p-phenylene terephthalamide). *Polymer Degradation and Stability*, **2009**, 94, 1890-1894	4.7	1
154	A possible buckybowl-like structure of zeolite templated carbon. *Carbon*, **2009**, 47, 1220-1230	10.4	203
153	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	3.8	31
152	A Combined Experimental and Theoretical Investigation of Atomic-Scale Defects Produced on Graphite Surfaces by Dielectric Barrier Discharge Plasma Treatment. *Journal of Physical Chemistry C*, **2009**, 113, 18719-18729	3.8	11
151	Highly stable performance of supercapacitors from phosphorus-enriched carbons. *Journal of the American Chemical Society*, **2009**, 131, 5026-7	16.4	514
150	Preparation of graphene dispersions and graphene-polymer composites in organic media. *Journal of Materials Chemistry*, **2009**, 19, 3591		276
149	Atomic force and scanning tunneling microscopy imaging of graphene nanosheets derived from graphite oxide. *Langmuir*, **2009**, 25, 5957-68	4	575
148	Overview of Carbon Materials in Relation to Adsorption **2008**, 15-49		5
147	Energetics of Gas Adsorption by Carbons: Thermodynamic Quantities **2008**, 53-76		4

146	Impact of the Carbonization Atmosphere on the Properties of Phosphoric Acid-Activated Carbons from Fruit Stones. *Adsorption Science and Technology*, **2008**, 26, 843-851	3.6	3
145	Tuning of texture and surface chemistry of carbon xerogels. *Journal of Colloid and Interface Science*, **2008**, 324, 150-5	9.3	76
144	Microporosity and mesoporosity of PPTA-derived carbons. Effect of PPTA thermal pretreatment. *Microporous and Mesoporous Materials*, **2008**, 114, 185-192	5.3	13
143	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	5.3	17
142	Modification of the pyrolysis/carbonization of PPTA polymer by intermediate isothermal treatments. *Carbon*, **2008**, 46, 985-993	10.4	31
141	Activated carbon fibers from poly(p-phenylene benzobisoxazole). *Carbon*, **2008**, 46, 825-828	10.4	6
140	New atomic-scale features in graphite surfaces treated in a dielectric barrier discharge plasma. *Carbon*, **2008**, 46, 1364-1367	10.4	6
139	Graphene oxide dispersions in organic solvents. *Langmuir*, **2008**, 24, 10560-4	4	2195
138	Multiscale imaging and tip-scratch studies reveal insight into the plasma oxidation of graphite. *Langmuir*, **2007**, 23, 8932-43	4	49
137	Oxygen and phosphorus enriched carbons from lignocellulosic material. *Carbon*, **2007**, 45, 1941-1950	10.4	95
136	A comparison of different carbon filaments on the nanometer and atomic scales by scanning tunneling microscopy. *Materials Letters*, **2007**, 61, 4787-4790	3.3	1
135	Interactions of CO and NO with the perovskite-type oxide larho3. *Journal of Chemical Technology and Biotechnology*, **2007**, 36, 136-143	3.5	3
134	Real-time monitoring of polymer swelling on the nanometer scale by atomic force microscopy. *Langmuir*, **2006**, 22, 4728-33	4	15
133	A microscopic view of physical and chemical activation in the synthesis of porous carbons. *Langmuir* , **2006**, 22, 9730-9	4	9
132	Nitrogen in aramid-based activated carbon fibers by TPD, XPS and XANES. *Carbon*, **2006**, 44, 2452-2462	10.4	70
131	Imaging the structure and porosity of active carbons by scanning tunneling microscopy. *Carbon*, **2006**, 44, 2469-2478	10.4	19
130	New structural insights into ordered porous carbon by scanning tunneling microscopy. *Microporous and Mesoporous Materials*, **2006**, 87, 268-271	5.3	
129	Nomex-derived activated carbon fibers as electrode materials in carbon based supercapacitors. *Journal of Power Sources*, **2006**, 153, 419-423	8.9	84

128	Surface characterisation of plasma-modified poly(ethylene terephthalate). *Journal of Colloid and Interface Science*, **2006**, 293, 353-63	9.3	48
127	Activated Carbon Materials of Uniform Porosity from Polyaramid Fibers. *Chemistry of Materials*, **2005**, 17, 5893-5908	9.6	68
126	Synthetic Carbons Derived from a Styrene–Divinylbenzene Copolymer Using Phosphoric Acid Activation. *Adsorption Science and Technology*, **2005**, 23, 19-26	3.6	1
125	Carbon molecular sieve cloths prepared by chemical vapour deposition of methane for separation of gas mixtures. *Microporous and Mesoporous Materials*, **2005**, 77, 109-118	5.3	39
124	Effects of oxygen and carbon dioxide plasmas on the surface of poly(ethylene terephthalate). *Journal of Colloid and Interface Science*, **2005**, 287, 57-66	9.3	40
123	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, 190-9	9.3	24
122	A study of the effect of plasma treatment on the interfacial properties of carbon fibre–thermoplastic composites. *Carbon*, **2005**, 43, 1795-1799	10.4	113
121	Surface chemistry of phosphorus-containing carbons of lignocellulosic origin. *Carbon*, **2005**, 43, 2857-2868	10.4	264
120	Structural investigation of zeolite-templated, ordered microporous carbon by scanning tunneling microscopy and Raman spectroscopy. *Langmuir*, **2005**, 21, 8817-23	4	30
119	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	2.6	26
118	Thermogravimetric studies on the activation of nanometric carbon fibers. *Journal of Thermal Analysis and Calorimetry*, **2005**, 79, 525-528	4.1	5
117	Nanoporous carbon fibres by pyrolysis of nomex polyaramid fibres. *Journal of Thermal Analysis and Calorimetry*, **2005**, 79, 529-532	4.1	24
116	Mechanical properties of high-strength carbon fibres. Validation of an end-effect model for describing experimental data. *Carbon*, **2004**, 42, 1275-1278	10.4	29
115	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	5.3	29
114	The effect of demineralisation on a lignite surface properties. *Fuel*, **2004**, 83, 845-850	7.1	17
113	The use of microcalorimetry to assess the size exclusion properties of carbon molecular sieves. *Thermochimica Acta*, **2004**, 420, 141-144	2.9	13
112	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	4.7	18
111	Activated carbon fibers from Nomex by chemical activation with phosphoric acid. *Carbon*, **2004**, 42, 1419-1426	10.4	122

110	Ethylene physisorption on C60 fullerene. *Carbon*, **2004**, 42, 1333-1337	10.4	7
109	Effect of Phosphoric Acid on Chemical Transformations during Nomex Pyrolysis. *Chemistry of Materials*, **2004**, 16, 2639-2647	9.6	28
108	Oxygen plasma modification of pitch-based isotropic carbon fibres. *Carbon*, **2003**, 41, 41-56	10.4	160
107	Synthetic carbons activated with phosphoric acid III. Carbons prepared in air. *Carbon*, **2003**, 41, 1181-1191	10.4	123
106	Atomic-scale scanning tunneling microscopy study of plasma-oxidized ultrahigh-modulus carbon fiber surfaces. *Journal of Colloid and Interface Science*, **2003**, 258, 276-82	9.3	25
105	Application of scanning tunneling and atomic force microscopies to the characterization of microporous and mesoporous materials. *Microporous and Mesoporous Materials*, **2003**, 65, 93-126	5.3	62
104	Activated carbons by pyrolysis of coffee bean husks in presence of phosphoric acid. *Journal of Analytical and Applied Pyrolysis*, **2003**, 70, 779-784	6	134
103	Following changes in the porous texture of Nomex-derived activated carbon fibres with the molecular probe technique. *Microporous and Mesoporous Materials*, **2003**, 64, 11-19	5.3	10
102	Atomic vacancy-induced friction on the graphite surface: observation by lateral force microscopy. *Journal of Microscopy*, **2003**, 210, 119-24	1.9	
101	Surface Characterization of PBO Fibers. *Macromolecules*, **2003**, 36, 8662-8672	5.5	26
100	N2 Physisorption on Carbon Nanotubes: Computer Simulation and Experimental Results. *Journal of Physical Chemistry B*, **2003**, 107, 8905-8916	3.4	40
99	Studies on the Thermal Degradation of Poly (p-phenylene benzobisoxazole). *Chemistry of Materials*, **2003**, 15, 4052-4059	9.6	61
98	Detecting Surface Oxygen Groups on Carbon Nanofibers by Phase Contrast Imaging in Tapping Mode AFM. *Langmuir*, **2003**, 19, 7665-7668	4	11
97	Methods for Characterization of Inorganic and Mineral Matter in Coal: A Critical Overview. *Energy & Fuels*, **2003**, 17, 271-281	4.1	113
96	A scanning tunnelling microscopy insight into the preparation of carbon molecular sieves by chemical vapour deposition. *Journal of Materials Chemistry*, **2003**, 13, 1513-1516		10
95	Adsorption of n-alkanes on plasma-oxidized high-strength carbon fibers. *Journal of Colloid and Interface Science*, **2002**, 247, 290-302	9.3	14
94	Porous texture evolution in Nomex-derived activated carbon fibers. *Journal of Colloid and Interface Science*, **2002**, 252, 169-76	9.3	38
93	Carbon molecular sieves for air separation from Nomex aramid fibers. *Journal of Colloid and Interface Science*, **2002**, 254, 414-6	9.3	16

92	Characterization of synthetic carbons activated with phosphoric acid. *Applied Surface Science*, **2002**, 200, 196-202	6.7	39
91	Pyrolysis of apple pulp: effect of operation conditions and chemical additives. *Journal of Analytical and Applied Pyrolysis*, **2002**, 62, 93-109	6	60
90	Pyrolysis of apple pulp: chemical activation with phosphoric acid. *Journal of Analytical and Applied Pyrolysis*, **2002**, 63, 283-301	6	100
89	Composition of gases released during olive stones pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2002**, 65, 313-322	6	107
88	Adsorption of polar probe molecules on plasma-oxidised high-strength carbon fibres. *Fuel Processing Technology*, **2002**, 77-78, 359-364	7.2	16
87	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	13
86	Characterization of porous texture in composite adsorbents based on exfoliated graphite and polyfurfuryl alcohol. *Fuel Processing Technology*, **2002**, 77-78, 401-407	7.2	12
85	Nanometer structure of carbon fibers studied by different scanning probe microscopy techniques: a comparative investigation. *Fuel Processing Technology*, **2002**, 77-78, 293-300	7.2	3
84	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	4.7	45
83	Inorganic matter characterization in vegetable biomass feedstocks. *Fuel*, **2002**, 81, 1161-1169	7.1	63
82	Retention of mercury in activated carbons in coal combustion and gasification flue gases. *Fuel Processing Technology*, **2002**, 77-78, 353-358	7.2	52
81	Oxygen plasma modification of submicron vapor grown carbon fibers as studied by scanning tunneling microscopy. *Carbon*, **2002**, 40, 1101-1108	10.4	52
80	Synthetic carbons activated with phosphoric acid. *Carbon*, **2002**, 40, 1493-1505	10.4	397
79	Synthetic carbons activated with phosphoric acid: II. Porous structure. *Carbon*, **2002**, 40, 1507-1519	10.4	79
78	Characterization of aramid based activated carbon fibres by adsorption and immersion techniques. *Carbon*, **2002**, 40, 1376-1380	10.4	26
77	Combining thermal analysis with other techniques to monitor the decomposition of poly(m-phenylene isophthalamide). *Magyar Apr□ad K□elem□enyek*, **2002**, 70, 37-43	0	22
76	Fibrous Carbon Molecular Sieves by Chemical Vapor Deposition of Benzene. Gas Separation Ability. *Chemistry of Materials*, **2002**, 14, 4328-4333	9.6	29
75	Nitrogen Physisorption on Defective C60. *Journal of Physical Chemistry B*, **2002**, 106, 9522-9527	3.4	10

74	Surface Characterization of PPTA Fibers Using Inverse Gas Chromatography. *Macromolecules*, **2002**, 35, 5085-5096	5.5	35
73	Early Stages of Plasma Oxidation of Graphite: Nanoscale Physicochemical Changes As Detected by Scanning Probe Microscopies. *Langmuir*, **2002**, 18, 4314-4323	4	27
72	Effect of sizing on the surface properties of carbon fibres. *Journal of Materials Chemistry*, **2002**, 12, 3843-3850		12
71	High resolution imaging of functional group distributions on carbon surfaces by tapping mode atomic force microscopy. *Chemical Communications*, **2002**, 1790-1	5.8	4
70	Preparation and porous texture characteristics of fibrous ultrahigh surface area carbons. *Journal of Materials Chemistry*, **2002**, 12, 3213-3219		26
69	Studies on pyrolysis of Nomex polyaramid fibers. *Journal of Analytical and Applied Pyrolysis*, **2001**, 58-59, 105-115	6	63
68	Effects of plasma oxidation on the surface and interfacial properties of carbon fibres/polycarbonate composites. *Carbon*, **2001**, 39, 1057-1068	10.4	101
67	Carbon reactivity in an oxygen plasma: a comparison with reactivity in molecular oxygen. *Carbon*, **2001**, 39, 1135-1146	10.4	26
66	Triangular versus honeycomb structure in atomic-resolution STM images of graphite. *Carbon*, **2001**, 39, 476-479	10.4	20
65	Surface characterization of submicron vapor grown carbon fibers by scanning tunneling microscopy. *Carbon*, **2001**, 39, 1575-1587	10.4	16
64	Porous texture of activated carbons prepared by phosphoric acid activation of apple pulp. *Carbon*, **2001**, 39, 1111-1115	10.4	46
63	Characterization of Microporosity and Mesoporosity in Carbonaceous Materials by Scanning Tunneling Microscopy. *Langmuir*, **2001**, 17, 474-480	4	31
62	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	8.4	115
61	Atomic Force Microscopy and Infrared Spectroscopy Studies of the Thermal Degradation of Nomex Aramid Fibers. *Chemistry of Materials*, **2001**, 13, 4297-4304	9.6	73
60	Introduction of acidic groups at the surface of activated carbon by microwave-induced oxygen plasma at low pressure. *Carbon*, **2000**, 38, 1021-1029	10.4	60
59	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	10.4	53
58	Recent developments in the international scenario of coal science. *Fuel*, **2000**, 79, 1581-1586	7.1	2
57	The international scenario of coal science. *Fuel*, **2000**, 79, 461-469	7.1	2

56	Adhesion artefacts in atomic force microscopy imaging. *Journal of Microscopy*, **2000**, 200 (Pt 2), 109-13	1.9	17
55	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	5.3	15
54	Microporous texture of activated carbon fibres prepared from Nomex aramid fibres. *Microporous and Mesoporous Materials*, **2000**, 34, 171-179	5.3	47
53	Mineralogical and chemical characterisation of coals from Southern Chile. *International Journal of Coal Geology*, **2000**, 44, 85-94	5.5	12
52	Atomic force microscopy investigation of the surface modification of highly oriented pyrolytic graphite by oxygen plasma. *Journal of Materials Chemistry*, **2000**, 10, 1585-1591		39
51	Physisorption of Simple Gases on C60Fullerene. *Langmuir*, **2000**, 16, 1343-1348	4	23
50	Shrinkage Properties of Wool Treated with Low Temperature Plasma and Chitosan Biopolymer. *Textile Reseach Journal*, **1999**, 69, 811-815	1.7	59
49	Modification of the surface properties of an activated carbon by oxygen plasma treatment. *Fuel*, **1998**, 77, 613-624	7.1	60
48	Effect of Various Treatments on Carbon Fiber Surfaces Studied by Raman Microprobe Spectrometry. *Applied Spectroscopy*, **1998**, 52, 356-360	3.1	25
47	Fullerene Reactivity in an Oxygen Plasma. *Fullerenes, Nanotubes, and Carbon Nanostructures*, **1997**, 5, 1075-1081		
46	Thermal behaviour of extrographic fractions of coal tar and petroleum pitches. *Fuel*, **1997**, 76, 179-187	7.1	21
45	Microporous texture of activated carbon fibers prepared from aramid fiber pulp. *Microporous Materials*, **1997**, 11, 303-311		32
44	Interactions between organic matter and minerals in two bituminous coals of different rank. *International Journal of Coal Geology*, **1997**, 33, 369-386	5.5	21
43	Zeta Potential as a Tool to Characterize Plasma Oxidation of Carbon Fibers. *Journal of Colloid and Interface Science*, **1997**, 192, 363-7	9.3	43
42	Chemical transformations resulting from pyrolysis and CO2 activation of Kevlar flocks. *Carbon*, **1997**, 35, 967-976	10.4	29
41	Thermal behavior of fullerenes in different gas atmospheres. *Carbon*, **1996**, 34, 1239-1248	10.4	13
40	Characterization of precipitates formed from the tetraiodomercurate (II) anion and mercury(I) or silver(I) cations. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 1217-1221		0
39	Comparative analysis of pitches by extrography and thermal analysis techniques. *Carbon*, **1994**, 32, 1001-1010	10.4	15

38	Raman microprobe studies on carbon materials. *Carbon*, **1994**, 32, 1523-1532	10.4	878
37	Characterization of common lignite, xylitic lignite and pyropissite varieties of low-rank coals. *Fuel*, **1994**, 73, 1723-1728	7.1	4
36	Thermal Transformations of Kevlar Aramid Fibers During Pyrolysis: Infrared and Thermal Analysis Studies. *Chemistry of Materials*, **1994**, 6, 1918-1924	9.6	70
35	Correlation between Arrhenius kinetic parameters in the reaction of different carbon materials with oxygen. *Energy & Fuels*, **1993**, 7, 1141-1145	4.1	22
34	Comparative M□ssbauer study of the effects of natural weathering and artificial oxidation on iron minerals present in coal. *Nuclear Instruments & Methods in Physics Research B*, **1993**, 76, 191-194	1.2	9
33	M□ssbauer study of the effect of acidic treatment on iron minerals during the demineralization of coals. *Hyperfine Interactions*, **1992**, 71, 1403-1406	0.8	3
32	Thermoanalytical studies of pitch pyrolysis. *Journal of Thermal Analysis*, **1992**, 38, 811-819		13
31	Mineral matter in coals of different rank from the Asturian Central basin. *Fuel*, **1992**, 71, 367-372	7.1	29
30	Nature and mechanism of oxidation reactions occurring during coal chlorination. *Fuel*, **1992**, 71, 389-393	7.1	1
29	Suitability of thermogravimetry and differential thermal analysis techniques for characterization of pitches. *Fuel*, **1992**, 71, 611-617	7.1	30
28	Organic affinity of trace elements in Asturian bituminous coals. *Fuel*, **1992**, 71, 909-917	7.1	26
27	Influence of weathering process on the flotation response of coal. *Fuel*, **1991**, 70, 1391-1397	7.1	17
26	The Determining Role of Mineral Matter on Gasification Reactivities of Brown Coal Chars **1991**, 435-460		8
25	Comparative M□ssbauer study of the oxidation of pyrite under different conditions. *Hyperfine Interactions*, **1990**, 58, 2581-2587	0.8	8
24	Interactions between carboxyl groups and inorganic elements in Spanish brown coals. *Fuel*, **1990**, 69, 362-367	7.1	21
23	Influence of coal chlorination conditions on aliphatic/aromatic selectivity. *Fuel*, **1990**, 69, 867-872	7.1	6
22	The characterization of organomineral components of low-rank coals. *Fuel Processing Technology*, **1990**, 25, 81-87	7.2	13
21	Structure and catalytic properties of silica-supported Mo-Pr oxide catalysts for propene selective oxidation. *Journal of Materials Science*, **1990**, 25, 289-295	4.3	1

20	Reactions of coal mineral matter during coal chlorination. *Fuel*, **1990**, 69, 873-877	7.1	5
19	Structure and Reactivity of Perovskite-Type Oxides. *Advances in Catalysis*, **1989**, 237-328	2.4	310
18	XPS characterization of coal surfaces: Study of aerial oxidation of brown coals. *Surface and Interface Analysis*, **1988**, 12, 565-571	1.5	31
17	A comparative study of the interactions of NO and CO with LaCrO3. *Journal of Molecular Catalysis*, **1988**, 45, 355-363		8
16	A comparative thermoanalytical study of low-temperature reactivity of brown coal with dioxygen and radiofrequency-activated oxygen. *Thermochimica Acta*, **1988**, 134, 333-338	2.9	7
15	Isobutene oxidation on an catalyst. *Journal of the Less Common Metals*, **1988**, 138, 47-57		8
14	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		16
13	Selective oxidation of propene on a molybdenum-prasedodymium-bismuth catalyst. *Industrial & Engineering Chemistry Research*, **1987**, 26, 1419-1424	3.9	22
12	A study of NO and CO interactions with LaMnO3. *Journal of Colloid and Interface Science*, **1987**, 119, 100-107	3.9	27
11	A comparison of various characterization techniques for low-temperature oxidation of coal. *Fuel Processing Technology*, **1987**, 15, 245-256	7.2	19
10	AEM, XPS and ISS characterization of catalyst modifications during propene oxidation over a supported mixed oxide catalyst. *Surface and Interface Analysis*, **1986**, 9, 207-213	1.5	3
9	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	7.3	20
8	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	7.3	21
7	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	7.3	13
6	Surface interactions of NO and CO with LaMO3 oxides. *Journal of Catalysis*, **1985**, 95, 558-566	7.3	46
5	Enhanced O2 adsorption in the catalytic oxidation of isobutene on a supported Mo?U?O catalyst. *Journal of Colloid and Interface Science*, **1985**, 106, 269-272	9.3	2
4	Physicochemical properties of LaFeO3. Kinetics of reduction and of oxygen adsorption. *Journal of the Chemical Society Faraday Transactions I*, **1985**, 81, 2399		27
3	Chemisorption and catalysis on LaMO3 oxides. *Journal of the Chemical Society Faraday Transactions I*, **1985**, 81, 939		102

2	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	35
1	Adsorption of CO2 on the perovskite-type oxide LaCoO3. *Journal of the Chemical Society Faraday Transactions I*, **1981**, 77, 591	46