

# Manuela Ribeiro Carrott

## List of Publications by Citations

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89  
papers

4,466  
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32  
h-index

66  
g-index

90  
ext. papers

4,804  
ext. citations

6.1  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
89	Lignin--from natural adsorbent to activated carbon: a review. <i>Bioresource Technology</i> , <b>2007</b> , 98, 2301-12	11	741
88	Low-Cost Adsorbents: Growing Approach to Wastewater Treatment-- Review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2009</b> , 39, 783-842	11.1	728
87	Conventional and microwave induced pyrolysis of coffee hulls for the production of a hydrogen rich fuel gas. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2007</b> , 79, 128-135	6	233
86	Photocatalytic decolorization of methylene blue in the presence of TiO <sub>2</sub> /ZnS nanocomposites. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 161, 545-50	12.8	166
85	Preparation of activated carbon fibres from acrylic textile fibres. <i>Carbon</i> , <b>2001</b> , 39, 1543-1555	10.4	146
84	Preparation and modification of activated carbon fibres by microwave heating. <i>Carbon</i> , <b>2004</b> , 42, 1315-1320	10	121
83	Production of activated carbons from coffee endocarp by CO <sub>2</sub> and steam activation. <i>Fuel Processing Technology</i> , <b>2008</b> , 89, 262-268	7.2	116
82	Adsorption of volatile organic compounds onto activated carbon cloths derived from a novel regenerated cellulosic precursor. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 177, 175-82	12.8	110
81	Adsorption of nitrogen, neopentane, n-hexane, benzene and methanol for the evaluation of pore sizes in silica grades of MCM-41. <i>Microporous and Mesoporous Materials</i> , <b>2001</b> , 47, 323-337	5.3	99
80	Influence of preparation conditions in the textural and chemical properties of activated carbons from a novel biomass precursor: the coffee endocarp. <i>Bioresource Technology</i> , <b>2008</b> , 99, 7224-31	11	82
79	Thermal treatments of activated carbon fibres using a microwave furnace. <i>Microporous and Mesoporous Materials</i> , <b>2001</b> , 47, 243-252	5.3	82
78	Production of activated carbons from almond shell. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 234-240	7.2	72
77	Application of different equations to adsorption isotherms of phenolic compounds on activated carbons prepared from cork. <i>Carbon</i> , <b>2006</b> , 44, 2422-2429	10.4	72
76	Characterization of micro-mesoporous materials from nitrogen and toluene adsorption: experiment and modeling. <i>Langmuir</i> , <b>2006</b> , 22, 513-6	4	68
75	Surface and porous characterisation of activated carbons made from a novel biomass precursor, the esparto grass. <i>Applied Surface Science</i> , <b>2013</b> , 265, 919-924	6.7	59
74	Structural and catalytic properties of Ti-MCM-41 synthesised at room temperature up to high Ti content. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 100, 312-321	5.3	59
73	Reactivity and porosity development during pyrolysis and physical activation in CO <sub>2</sub> or steam of kraft and hydrolytic lignins. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2008</b> , 82, 264-271	6	58

72	Evaluation of the Stability of Pure Silica MCM-41 toward Water Vapor. <i>Langmuir</i> , <b>1999</b> , 15, 8895-8901	4	57
71	Thermal conversion of a novel biomass agricultural residue (vine shoots) into activated carbon using activation with CO <sub>2</sub> . <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2010</b> , 87, 8-13	6	56
70	Mercury removal from aqueous solution and flue gas by adsorption on activated carbon fibres. <i>Applied Surface Science</i> , <b>2006</b> , 252, 6046-6052	6.7	54
69	Influence of oxidation process on the adsorption capacity of activated carbons from lignocellulosic precursors. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 241-246	7.2	50
68	Pore size control in activated carbons obtained by pyrolysis under different conditions of chemically impregnated cork. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2006</b> , 75, 120-127	6	49
67	Comparative study of Al-MCM materials prepared at room temperature with different aluminium sources and by some hydrothermal methods. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 92, 270-285	5.3	48
66	Hydrocarbons adsorption on templated mesoporous materials: effect of the pore size, geometry and surface chemistry. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 407-416	3.6	46
65	Direct synthesis without addition of acid of Al-SBA-15 with controllable porosity and high hydrothermal stability. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 142, 526-534	5.3	45
64	Physical adsorption of gases by microporous carbons. <i>Colloids and Surfaces</i> , <b>1991</b> , 58, 385-400		45
63	Reference data for the adsorption of benzene on carbon materials. <i>Carbon</i> , <b>2000</b> , 38, 465-474	10.4	44
62	The influence of the activated carbon post-treatment on the phenolic compounds removal. <i>Fuel Processing Technology</i> , <b>2012</b> , 103, 64-70	7.2	43
61	From commercial textile fibres to activated carbon fibres: Chemical transformations. <i>Materials Chemistry and Physics</i> , <b>2005</b> , 93, 100-108	4.4	41
60	Carbon molecular sieves from PET for separations involving CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> and N <sub>2</sub> . <i>Applied Surface Science</i> , <b>2006</b> , 252, 5948-5952	6.7	38
59	Trends in the condensation/evaporation and adsorption enthalpies of volatile organic compounds on mesoporous silica materials. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 151, 223-230	5.3	35
58	Evaluation of the Stoekli method for the estimation of micropore size distributions of activated charcoal cloths. <i>Carbon</i> , <b>1999</b> , 37, 647-656	10.4	32
57	Using alkali metals to control reactivity and porosity during physical activation of demineralised kraft lignin. <i>Carbon</i> , <b>2009</b> , 47, 1012-1017	10.4	31
56	New carbon materials with high porosity in the 1-7nm range obtained by chemical activation with phosphoric acid of resorcinol-formaldehyde aerogels. <i>Carbon</i> , <b>2009</b> , 47, 1874-1877	10.4	31
55	Separating surface and solvent effects and the notion of critical adsorption energy in the adsorption of phenolic compounds by activated carbons. <i>Langmuir</i> , <b>2005</b> , 21, 11863-9	4	29

54	Preparation of Activated Carbons from Cork by Physical Activation in Carbon Dioxide. <i>Adsorption Science and Technology</i> , <b>2003</b> , 21, 669-681	3.6	29
53	Evaluation of the thermal and mechanical stability of Si-MCM-41 and Ti-MCM-41 synthesised at room temperature. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 108, 283-293	5.3	28
52	New acrylic monolithic carbon molecular sieves for O <sub>2</sub> /N <sub>2</sub> and CO <sub>2</sub> /CH <sub>4</sub> separations. <i>Carbon</i> , <b>2006</b> , 44, 1158-1165	10.4	28
51	Tailoring the surface chemistry of mesocellular foams for protein adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 386, 25-35	5.1	27
50	An innovative approach to develop microporous activated carbons in oxidising atmosphere. <i>Journal of Cleaner Production</i> , <b>2017</b> , 156, 549-555	10.3	25
49	Interaction of water vapour at 298K with Al-MCM-41 materials synthesised at room temperature. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 103, 82-93	5.3	25
48	Comparison of the Dubinin-Radushkevich and Quenched Solid Density Functional Theory approaches for the characterisation of narrow microporosity in activated carbons obtained by chemical activation with KOH or NaOH of Kraft and hydrolytic lignins. <i>Carbon</i> , <b>2010</b> , 48, 4162-4169	10.4	23
47	Use of n-nonane pre-adsorption for the determination of micropore volume of activated carbon aerogels. <i>Carbon</i> , <b>2007</b> , 45, 1310-1313	10.4	23
46	Adsorption of toluene, methylcyclohexane and neopentane on silica MCM-41. <i>Adsorption</i> , <b>2008</b> , 14, 367-375	3.6	23
45	Preparation of activated carbon "membranes" by physical and chemical activation of cork. <i>Carbon</i> , <b>1999</b> , 37, 515-517	10.4	22
44	Effect of the activating agent on physico-chemical and electrical properties of activated carbon cloths developed from a novel cellulosic precursor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 378, 87-93	5.1	21
43	Adsorption of n-pentane and iso-octane for the evaluation of the porosity of dealuminated BEA zeolites. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 81, 259-267	5.3	21
42	Effect of hydrothermal treatment on the structure, stability and acidity of Al containing MCM-41 and MCM-48 synthesised at room temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 310, 9-19	5.1	20
41	Microwave heating as a novel method for introducing molecular sieve properties into activated carbon fibres. <i>Carbon</i> , <b>2004</b> , 42, 227-229	10.4	20
40	Numerical simulation of surface ionisation and specific adsorption on a two-site model of a carbon surface. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1995</b> , 91, 2179		20
39	Ex-hydroxide magnesium oxide as a model adsorbent for investigation of micropore filling mechanisms. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 185		19
38	Characterisation of the porosity of polymer and carbon aerogels containing Fe, Ni or Cu prepared from 2,4-dihydroxybenzoic acid by n-nonane pre-adsorption and density functional theory. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 131, 75-81	5.3	18
37	Reference data for the adsorption of methanol on carbon materials. <i>Carbon</i> , <b>2001</b> , 39, 193-200	10.4	18

36	In vitro adsorption study of fluoxetine in activated carbons and activated carbon fibres. <i>Fuel Processing Technology</i> , <b>2008</b> , 89, 549-555	7.2	17
35	Core-shell polymer aerogels prepared by co-polymerisation of 2,4-dihydroxybenzoic acid, resorcinol and formaldehyde. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 158, 170-174	5.3	14
34	Influence of thermal treatment conditions on porosity development and mechanical properties of activated carbon cloths from a novel nanofibre-made fabric. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 116, 310-314	4.4	14
33	Structure and catalytic activity of Al-MCM-48 materials synthesised at room temperature: Influence of the aluminium source and calcination conditions. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 114, 293-302	5.3	14
32	PEEK: An excellent precursor for activated carbon production for high temperature application. <i>Fuel Processing Technology</i> , <b>2009</b> , 90, 232-236	7.2	13
31	Controlling the micropore size of activated carbons for the treatment of fuels and combustion gases. <i>Applied Surface Science</i> , <b>2006</b> , 252, 5953-5956	6.7	13
30	Stabilization of MCM-41 by Pyrolytic Carbon Deposition. <i>Langmuir</i> , <b>2000</b> , 16, 9103-9105	4	12
29	Production of activated carbon cloth with controlled structure and porosity from a new precursor. <i>Journal of Porous Materials</i> , <b>2007</b> , 14, 181-190	2.4	11
28	Reference data for the adsorption of dichloromethane on carbon materials. <i>Carbon</i> , <b>2001</b> , 39, 465-472	10.4	11
27	Activated Carbons Prepared from Natural and Synthetic Raw Materials with Potential Applications in Gas Separations. <i>Advanced Materials Research</i> , <b>2010</b> , 107, 1-7	0.5	10
26	Influence of Degassing Temperature on the Performance of Carbon Molecular Sieves for Separations Involving O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , and CH <sub>4</sub> . <i>Energy &amp; Fuels</i> , <b>2006</b> , 20, 766-770	4.1	10
25	Infrared and quantitative adsorption study of coordinatively unsaturated cations on magnesium hydroxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1993</b> , 89, 579		10
24	Selective methoxylation of limonene over ion-exchanged and acid-activated clays. <i>Applied Catalysis A: General</i> , <b>2013</b> , 467, 38-46	5.1	9
23	Amine-Modified Carbon Aerogels for CO <sub>2</sub> Capture. <i>Adsorption Science and Technology</i> , <b>2013</b> , 31, 223-232	6	9
22	Adsorption Properties of Activated Carbons Prepared from Recycled PET in the Removal of Organic Pollutants from Aqueous Solutions. <i>Adsorption Science and Technology</i> , <b>2010</b> , 28, 807-821	3.6	9
21	Characterisation of Surface Ionisation and Adsorption of Phenol and 4-Nitrophenol on Non-Porous Carbon Blacks. <i>Adsorption Science and Technology</i> , <b>2008</b> , 26, 827-841	3.6	9
20	Adsorption of Aqueous Mercury(II) Species by Commercial Activated Carbon Fibres with and without Surface Modification. <i>Adsorption Science and Technology</i> , <b>2007</b> , 25, 199-215	3.6	9
19	Application of the $\frac{d}{dt}$ Method for Analysing Benzene, Dichloromethane and Methanol Isotherms Determined on Molecular Sieve and Superactivated Carbons. <i>Studies in Surface Science and Catalysis</i> , <b>2000</b> , 128, 323-331	1.8	9

18	High micropore activated carbon prepared from polyetheretherketone. <i>Carbon</i> , <b>2007</b> , 45, 2454-2455	10.4	8
17	Scanning electron microscopy of activated carbons prepared from commercial acrylic textile fibres. <i>Fuel Processing Technology</i> , <b>2002</b> , 77-78, 381-387	7.2	7
16	Evolution of porosity of activated carbon fibres prepared from pre-oxidized acrylic fibres. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 264, 176-180	5.3	6
15	Diffusion of gases in metal containing carbon aerogels. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 229-233	7.2	6
14	Adsorption of Bovine Serum Albumin onto Mesocellular Silica Foams with Differently Sized Cells and Windows. <i>Adsorption Science and Technology</i> , <b>2010</b> , 28, 777-788	3.6	6
13	On the use of ethanol for evaluating microporosity of activated carbons prepared from Polish lignite. <i>Fuel Processing Technology</i> , <b>2012</b> , 103, 34-38	7.2	5
12	Characterisation by adsorption of various organic vapours of the porosity of fresh and coked H-MCM-22 zeolites. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 118, 473-479	5.3	5
11	Influence of the synthesis conditions on the pore structure and stability of MCM-41 materials containing aluminium or titanium. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 160, 567-574	1.8	5
10	On the Lo/I/Range of the TVFM. <i>Adsorption Science and Technology</i> , <b>2006</b> , 24, 205-214	3.6	5
9	Pore structural characteristics of mesostructured materials prepared under different conditions. <i>Studies in Surface Science and Catalysis</i> , <b>2002</b> , 144, 363-370	1.8	4
8	Adsorption of Water Vapour by Microporous Magnesium Oxide. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 497-506	1.8	3
7	Boosting Antimicrobial Activity of Ciprofloxacin by Functionalization of Mesoporous Silica Nanoparticles. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
6	Porosity in ion-exchanged and acid activated clays evaluated using n-nonane pre-adsorption. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 232, 238-247	5.3	1
5	Irradiation of Activated Charcoal Cloth. <i>Studies in Surface Science and Catalysis</i> , <b>1994</b> , 87, 661-669	1.8	1
4	Adsorption of Methanol and Water by Charcoal Cloth. <i>Studies in Surface Science and Catalysis</i> , <b>1991</b> , 62, 341-346	1.8	1
3	Microstructure of Ex-Hydroxide Magnesium Oxide & Products of Rehydration. <i>Studies in Surface Science and Catalysis</i> , <b>1991</b> , 635-643	1.8	1
2	Adsorption of the inhalation anaesthetic isoflurane by activated carbon fibres with reference data on non-porous carbon. <i>Adsorption</i> , <b>2020</b> , 26, 627-632	2.6	
1	Mesoporous silica nanoparticles with manganese and lanthanide salts: synthesis, characterization and cytotoxicity studies. <i>Dalton Transactions</i> , <b>2021</b> , 50, 8588-8599	4.3	

