

Manuela Ribeiro Carrott

List of Publications by Year in descending order

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90
papers

5,229
citations

117625

34
h-index

85541

71
g-index

90
all docs

90
docs citations

90
times ranked

6301
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin – from natural adsorbent to activated carbon: A review. <i>Bioresource Technology</i> , 2007, 98, 2301-2312.	9.6	882
2	Low-Cost Adsorbents: Growing Approach to Wastewater Treatment – a Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2009, 39, 783-842.	12.8	873
3	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> , 2007, 79, 128-135.	5.5	295
4	Photocatalytic decolorization of methylene blue in the presence of TiO ₂ /ZnS nanocomposites. <i>Journal of Hazardous Materials</i> , 2009, 161, 545-550.	12.4	187
5	Preparation of activated carbon fibres from acrylic textile fibres. <i>Carbon</i> , 2001, 39, 1543-1555.	10.3	161
6	Production of activated carbons from coffee endocarp by CO ₂ and steam activation. <i>Fuel Processing Technology</i> , 2008, 89, 262-268.	7.2	149
7	Preparation and modification of activated carbon fibres by microwave heating. <i>Carbon</i> , 2004, 42, 1315-1320.	10.3	142
8	Adsorption of volatile organic compounds onto activated carbon cloths derived from a novel regenerated cellulosic precursor. <i>Journal of Hazardous Materials</i> , 2010, 177, 175-182.	12.4	125
9	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> , 2001, 47, 323-337.	4.4	108
10	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> , 2008, 99, 7224-7231.	9.6	99
11	Production of activated carbons from almond shell. <i>Fuel Processing Technology</i> , 2011, 92, 234-240.	7.2	95
12	Thermal treatments of activated carbon fibres using a microwave furnace. <i>Microporous and Mesoporous Materials</i> , 2001, 47, 243-252.	4.4	93
13	Application of different equations to adsorption isotherms of phenolic compounds on activated carbons prepared from cork. <i>Carbon</i> , 2006, 44, 2422-2429.	10.3	81
14	Characterization of Micro-Mesoporous Materials from Nitrogen and Toluene Adsorption: – Experiment and Modeling. <i>Langmuir</i> , 2006, 22, 513-516.	3.5	79
15	Reactivity and porosity development during pyrolysis and physical activation in CO ₂ or steam of kraft and hydrolytic lignins. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 82, 264-271.	5.5	73
16	Surface and porous characterisation of activated carbons made from a novel biomass precursor, the esparto grass. <i>Applied Surface Science</i> , 2013, 265, 919-924.	6.1	70
17	Structural and catalytic properties of Ti – MCM-41 synthesised at room temperature up to high Ti content. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 312-321.	4.4	67
18	Evaluation of the Stability of Pure Silica MCM-41 toward Water Vapor. <i>Langmuir</i> , 1999, 15, 8895-8901.	3.5	63

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19	Influence of oxidation process on the adsorption capacity of activated carbons from lignocellulosic precursors. <i>Fuel Processing Technology</i> , 2011, 92, 241-246.	7.2	63
20	Thermal conversion of a novel biomass agricultural residue (vine shoots) into activated carbon using activation with CO ₂ . <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 87, 8-13.	5.5	62
21	Mercury removal from aqueous solution and flue gas by adsorption on activated carbon fibres. <i>Applied Surface Science</i> , 2006, 252, 6046-6052.	6.1	58
22	Direct synthesis without addition of acid of Al-SBA-15 with controllable porosity and high hydrothermal stability. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 526-534.	4.4	57
23	Hydrocarbons adsorption on templated mesoporous materials: effect of the pore size, geometry and surface chemistry. <i>New Journal of Chemistry</i> , 2011, 35, 407-416.	2.8	54
24	Physical adsorption of gases by microporous carbons. <i>Colloids and Surfaces</i> , 1991, 58, 385-400.	0.9	53
25	The influence of the activated carbon post-treatment on the phenolic compounds removal. <i>Fuel Processing Technology</i> , 2012, 103, 64-70.	7.2	51
26	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> , 2006, 92, 270-285.	4.4	50
27	Pore size control in activated carbons obtained by pyrolysis under different conditions of chemically impregnated cork. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 75, 120-127.	5.5	50
28	From commercial textile fibres to activated carbon fibres: Chemical transformations. <i>Materials Chemistry and Physics</i> , 2005, 93, 100-108.	4.0	45
29	Reference data for the adsorption of benzene on carbon materials. <i>Carbon</i> , 2000, 38, 465-474.	10.3	44
30	Carbon molecular sieves from PET for separations involving CH ₄ , CO ₂ , O ₂ and N ₂ . <i>Applied Surface Science</i> , 2006, 252, 5948-5952.	6.1	43
31	Trends in the condensation/evaporation and adsorption enthalpies of volatile organic compounds on mesoporous silica materials. <i>Microporous and Mesoporous Materials</i> , 2012, 151, 223-230.	4.4	39
32	New carbon materials with high porosity in the 1-7 nm range obtained by chemical activation with phosphoric acid of resorcinol-formaldehyde aerogels. <i>Carbon</i> , 2009, 47, 1874-1877.	10.3	36
33	An innovative approach to develop microporous activated carbons in oxidising atmosphere. <i>Journal of Cleaner Production</i> , 2017, 156, 549-555.	9.3	35
34	Evaluation of the Stoeckli method for the estimation of micropore size distributions of activated charcoal cloths. <i>Carbon</i> , 1999, 37, 647-656.	10.3	34
35	New acrylic monolithic carbon molecular sieves for O ₂ /N ₂ and CO ₂ /CH ₄ separations. <i>Carbon</i> , 2006, 44, 1158-1165.	10.3	33
36	Using alkali metals to control reactivity and porosity during physical activation of demineralised kraft lignin. <i>Carbon</i> , 2009, 47, 1012-1017.	10.3	33

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37	Separating Surface and Solvent Effects and the Notion of Critical Adsorption Energy in the Adsorption of Phenolic Compounds by Activated Carbons. <i>Langmuir</i> , 2005, 21, 11863-11869.	3.5	31
38	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> , 2008, 108, 283-293.	4.4	31
39	Preparation of Activated Carbons from Cork by Physical Activation in Carbon Dioxide. <i>Adsorption Science and Technology</i> , 2003, 21, 669-681.	3.2	30
40	Interaction of water vapour at 298K with Al-MCM-41 materials synthesised at room temperature. <i>Microporous and Mesoporous Materials</i> , 2007, 103, 82-93.	4.4	27
41	Tailoring the surface chemistry of mesocellular foams for protein adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 386, 25-35.	4.7	27
42	Adsorption of n-pentane and iso-octane for the evaluation of the porosity of dealuminated BEA zeolites. <i>Microporous and Mesoporous Materials</i> , 2005, 81, 259-267.	4.4	25
43	Adsorption of toluene, methylcyclohexane and neopentane on Silica MCM-41. <i>Adsorption</i> , 2008, 14, 367-375.	3.0	25
44	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> , 2010, 48, 4162-4169.	10.3	25
45	Use of n-nonane pre-adsorption for the determination of micropore volume of activated carbon aerogels. <i>Carbon</i> , 2007, 45, 1310-1313.	10.3	24
46	Preparation of activated carbon "membranes" by physical and chemical activation of cork. <i>Carbon</i> , 1999, 37, 515-517.	10.3	23
47	Microwave heating as a novel method for introducing molecular sieve properties into activated carbon fibres. <i>Carbon</i> , 2004, 42, 227-229.	10.3	23
48	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> , 2011, 378, 87-93.	4.7	23
49	Ex-hydroxide magnesium oxide as a model adsorbent for investigation of micropore filling mechanisms. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 185.	1.7	22
50	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> , 1995, 91, 2179.	1.7	22
51	Reference data for the adsorption of methanol on carbon materials. <i>Carbon</i> , 2001, 39, 193-200.	10.3	22
52	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> , 2007, 310, 9-19.	4.7	21
53	In vitro adsorption study of fluoxetine in activated carbons and activated carbon fibres. <i>Fuel Processing Technology</i> , 2008, 89, 549-555.	7.2	21
54	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> , 2010, 131, 75-81.	4.4	21

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55	Adsorption Properties of Activated Carbons Prepared from Recycled PET in the Removal of Organic Pollutants from Aqueous Solutions. <i>Adsorption Science and Technology</i> , 2010, 28, 807-821.	3.2	17
56	Core-shell polymer aerogels prepared by co-polymerisation of 2,4-dihydroxybenzoic acid, resorcinol and formaldehyde. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 170-174.	4.4	17
57	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> , 2008, 114, 293-302.	4.4	16
58	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> , 2009, 116, 310-314.	4.0	15
59	PEEK: An excellent precursor for activated carbon production for high temperature application. <i>Fuel Processing Technology</i> , 2009, 90, 232-236.	7.2	15
60	Stabilization of MCM-41 by Pyrolytic Carbon Deposition. <i>Langmuir</i> , 2000, 16, 9103-9105.	3.5	14
61	Controlling the micropore size of activated carbons for the treatment of fuels and combustion gases. <i>Applied Surface Science</i> , 2006, 252, 5953-5956.	6.1	14
62	Activated Carbons Prepared from Natural and Synthetic Raw Materials with Potential Applications in Gas Separations. <i>Advanced Materials Research</i> , 0, 107, 1-7.	0.3	14
63	Production of activated carbon cloth with controlled structure and porosity from a new precursor. <i>Journal of Porous Materials</i> , 2007, 14, 181-190.	2.6	13
64	Reference data for the adsorption of dichloromethane on carbon materials. <i>Carbon</i> , 2001, 39, 465-472.	10.3	12
65	Amine-Modified Carbon Aerogels for CO ₂ Capture. <i>Adsorption Science and Technology</i> , 2013, 31, 223-232.	3.2	12
66	Adsorption of Aqueous Mercury(II) Species by Commercial Activated Carbon Fibres with and without Surface Modification. <i>Adsorption Science and Technology</i> , 2007, 25, 199-215.	3.2	11
67	Infrared and quantitative adsorption study of coordinatively unsaturated cations on magnesium hydroxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 579.	1.7	10
68	Influence of Degassing Temperature on the Performance of Carbon Molecular Sieves for Separations Involving O ₂ , N ₂ , CO ₂ , and CH ₄ . <i>Energy & Fuels</i> , 2006, 20, 766-770.	5.1	10
69	Characterisation of Surface Ionisation and Adsorption of Phenol and 4-Nitrophenol on Non-Porous Carbon Blacks. <i>Adsorption Science and Technology</i> , 2008, 26, 827-841.	3.2	10
70	Selective methoxylation of limonene over ion-exchanged and acid-activated clays. <i>Applied Catalysis A: General</i> , 2013, 467, 38-46.	4.3	10
71	Application of the Γ ±s Method for Analysing Benzene, Dichloromethane and Methanol Isotherms Determined on Molecular Sieve and Superactivated Carbons. <i>Studies in Surface Science and Catalysis</i> , 2000, 128, 323-331.	1.5	9
72	High micropore activated carbon prepared from polyetheretherketone. <i>Carbon</i> , 2007, 45, 2454-2455.	10.3	8

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73	Scanning electron microscopy of activated carbons prepared from commercial acrylic textile fibres. Fuel Processing Technology, 2002, 77-78, 381-387.	7.2	7
74	Characterisation by adsorption of various organic vapours of the porosity of fresh and coked H-MCM-22 zeolites. Microporous and Mesoporous Materials, 2009, 118, 473-479.	4.4	7
75	Diffusion of gases in metal containing carbon aerogels. Fuel Processing Technology, 2011, 92, 229-233.	7.2	7
76	On the use of ethanol for evaluating microporosity of activated carbons prepared from Polish lignite. Fuel Processing Technology, 2012, 103, 34-38.	7.2	7
77	Evolution of porosity of activated carbon fibres prepared from pre-oxidized acrylic fibres. Microporous and Mesoporous Materials, 2018, 264, 176-180.	4.4	7
78	Boosting Antimicrobial Activity of Ciprofloxacin by Functionalization of Mesoporous Silica Nanoparticles. Pharmaceutics, 2021, 13, 218.	4.5	7
79	On the Lo/If Range of the TVFM. Adsorption Science and Technology, 2006, 24, 205-214.	3.2	6
80	Influence of the synthesis conditions on the pore structure and stability of MCM-41 materials containing aluminium or titanium. Studies in Surface Science and Catalysis, 2007, 160, 567-574.	1.5	6
81	Adsorption of Bovine Serum Albumin onto Mesocellular Silica Foams with Differently Sized Cells and Windows. Adsorption Science and Technology, 2010, 28, 777-788.	3.2	6
82	The AEROPILs Generation: Novel Poly(Ionic Liquid)-Based Aerogels for CO2 Capture. International Journal of Molecular Sciences, 2022, 23, 200.	4.1	6
83	Pore structural characteristics of mesostructured materials prepared under different conditions. Studies in Surface Science and Catalysis, 2002, 144, 363-370.	1.5	4
84	Adsorption of Water Vapour by Microporous Magnesium Oxide. Studies in Surface Science and Catalysis, 1994, , 497-506.	1.5	3
85	Adsorption of Methanol and Water by Charcoal Cloth. Studies in Surface Science and Catalysis, 1991, 62, 341-346.	1.5	1
86	Microstructure of Ex-Hydroxide Magnesium Oxide & Products of Rehydration. Studies in Surface Science and Catalysis, 1991, , 635-643.	1.5	1
87	\hat{I}^3 -Irradiation of Activated Charcoal Cloth. Studies in Surface Science and Catalysis, 1994, 87, 661-669.	1.5	1
88	Porosity in ion-exchanged and acid activated clays evaluated using n-nonane pre-adsorption. Microporous and Mesoporous Materials, 2016, 232, 238-247.	4.4	1
89	Adsorption of the inhalation anaesthetic isoflurane by activated carbon fibres with reference data on non-porous carbon. Adsorption, 2020, 26, 627-632.	3.0	0
90	Mesoporous Silica Nanoparticles with Manganese and Lanthanides Salts: Synthesis, Characterization and Cytotoxicity studies. Dalton Transactions, 2021, 50, 8588-8599.	3.3	0