

Peter Carrott

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127
papers

5,560
citations

38
h-index

72
g-index

128
ext. papers

5,990
ext. citations

5.5
avg, IF

5.59
L-index

#	Paper	IF	Citations
127	Lignin--from natural adsorbent to activated carbon: a review. <i>Bioresource Technology</i> , 2007 , 98, 2301-12	11	741
126	Low-Cost Adsorbents: Growing Approach to Wastewater Treatment-- Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2009 , 39, 783-842	11.1	728
125	Cellulose: A review as natural, modified and activated carbon adsorbent. <i>Bioresource Technology</i> , 2016 , 216, 1066-76	11	417
124	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	6	233
123	Adsorption of nitrogen by porous and non-porous carbons. <i>Carbon</i> , 1987 , 25, 59-68	10.4	147
122	Preparation of activated carbon fibres from acrylic textile fibres. <i>Carbon</i> , 2001 , 39, 1543-1555	10.4	146
121	Preparation and modification of activated carbon fibres by microwave heating. <i>Carbon</i> , 2004 , 42, 1315-1320	10.4	121
120	Production of activated carbons from coffee endocarp by CO ₂ and steam activation. <i>Fuel Processing Technology</i> , 2008 , 89, 262-268	7.2	116
119	Adsorption of volatile organic compounds onto activated carbon cloths derived from a novel regenerated cellulosic precursor. <i>Journal of Hazardous Materials</i> , 2010 , 177, 175-82	12.8	110
118	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	5.3	99
117	Standard nitrogen adsorption data for nonporous carbons. <i>Carbon</i> , 1987 , 25, 769-770	10.4	96
116	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, 7224-31	11	82
115	Thermal treatments of activated carbon fibres using a microwave furnace. <i>Microporous and Mesoporous Materials</i> , 2001 , 47, 243-252	5.3	82
114	Production of activated carbons from almond shell. <i>Fuel Processing Technology</i> , 2011 , 92, 234-240	7.2	72
113	Application of different equations to adsorption isotherms of phenolic compounds on activated carbons prepared from cork. <i>Carbon</i> , 2006 , 44, 2422-2429	10.4	72
112	Characterization of micro-mesoporous materials from nitrogen and toluene adsorption: experiment and modeling. <i>Langmuir</i> , 2006 , 22, 513-6	4	68
111	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	6.7	59

110	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	5.3	59
109	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	6	58
108	Phenol removal onto novel activated carbons made from lignocellulosic precursors: influence of surface properties. <i>Journal of Hazardous Materials</i> , 2009 , 167, 904-10	12.8	57
107	Evaluation of the Stability of Pure Silica MCM-41 toward Water Vapor. <i>Langmuir</i> , 1999 , 15, 8895-8901	4	57
106	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	6	56
105	Mercury removal from aqueous solution and flue gas by adsorption on activated carbon fibres. <i>Applied Surface Science</i> , 2006 , 252, 6046-6052	6.7	54
104	Influence of surface ionization on the adsorption of aqueous zinc species by activated carbons. <i>Carbon</i> , 1997 , 35, 403-410	10.4	53
103	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	50
102	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	6	49
101	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	5.3	48
100	Evolution of micropore structure of activated charcoal cloth. <i>Carbon</i> , 1991 , 29, 499-506	10.4	48
99	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	3.6	46
98	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	5.3	45
97	Physical adsorption of gases by microporous carbons. <i>Colloids and Surfaces</i> , 1991 , 58, 385-400		45
96	Adsorption of neopentane by nonporous carbons and silicas. <i>Langmuir</i> , 1988 , 4, 740-743	4	45
95	Reference data for the adsorption of benzene on carbon materials. <i>Carbon</i> , 2000 , 38, 465-474	10.4	44
94	The influence of the activated carbon post-treatment on the phenolic compounds removal. <i>Fuel Processing Technology</i> , 2012 , 103, 64-70	7.2	43
93	From commercial textile fibres to activated carbon fibres: Chemical transformations. <i>Materials Chemistry and Physics</i> , 2005 , 93, 100-108	4.4	41

92	Multilayer adsorption of nitrogen and alkanes by non-porous carbons and silicas. <i>Pure and Applied Chemistry</i> , 1989 , 61, 1835-1840	2.1	39
91	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	6.7	38
90	Gas chromatographic study of microporous carbons. <i>Journal of Chromatography A</i> , 1987 , 406, 139-144	4.5	38
89	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	5.3	35
88	Adsorption of water vapor by non-porous carbons. <i>Carbon</i> , 1992 , 30, 201-205	10.4	33
87	Evaluation of the Stoeckli method for the estimation of micropore size distributions of activated charcoal cloths. <i>Carbon</i> , 1999 , 37, 647-656	10.4	32
86	Using alkali metals to control reactivity and porosity during physical activation of demineralised kraft lignin. <i>Carbon</i> , 2009 , 47, 1012-1017	10.4	31
85	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> , 2009 , 47, 1874-1877	10.4	31
84	Infrared study of the adsorption of ¹⁶ O ₂ , ¹⁶ O ¹⁸ O and ¹⁸ O ₂ on Cr ₂ O ₃ . <i>Journal of the Chemical Society Faraday Transactions I</i> , 1983 , 79, 2425		31
83	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, 11863-9	4	29
82	Preparation of Activated Carbons from Cork by Physical Activation in Carbon Dioxide. <i>Adsorption Science and Technology</i> , 2003 , 21, 669-681	3.6	29
81	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	5.3	28
80	New acrylic monolithic carbon molecular sieves for O ₂ /N ₂ and CO ₂ /CH ₄ separations. <i>Carbon</i> , 2006 , 44, 1158-1165	10.4	28
79	Tailoring the surface chemistry of mesocellular foams for protein adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 386, 25-35	5.1	27
78	An innovative approach to develop microporous activated carbons in oxidising atmosphere. <i>Journal of Cleaner Production</i> , 2017 , 156, 549-555	10.3	25
77	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	5.3	25
76	Adsorption of toluene and toluene-water vapor mixture on almond shell based activated carbons. <i>Adsorption</i> , 2013 , 19, 1137-1148	2.6	23
75	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	10.4	23

74	Use of n-nonane pre-adsorption for the determination of micropore volume of activated carbon aerogels. <i>Carbon</i> , 2007 , 45, 1310-1313	10.4	23
73	Adsorption of toluene, methylcyclohexane and neopentane on silica MCM-41. <i>Adsorption</i> , 2008 , 14, 367-375		23
72	Influence of surface ionization on the adsorption of aqueous mercury chlorocomplexes by activated carbons. <i>Carbon</i> , 1998 , 36, 11-17	10.4	22
71	Preparation of activated carbon "membranes" by physical and chemical activation of cork. <i>Carbon</i> , 1999 , 37, 515-517	10.4	22
70	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	5.1	21
69	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	5.3	21
68	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	5.1	20
67	Microwave heating as a novel method for introducing molecular sieve properties into activated carbon fibres. <i>Carbon</i> , 2004 , 42, 227-229	10.4	20
66	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		20
65	Desorption of n-nonane from microporous carbons. <i>Colloids and Surfaces</i> , 1989 , 37, 1-13		20
64	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		19
63	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	5.3	18
62	Reference data for the adsorption of methanol on carbon materials. <i>Carbon</i> , 2001 , 39, 193-200	10.4	18
61	The adsorption of nitrogen and water vapour by carbon-coated precipitated silica. <i>Colloids and Surfaces</i> , 1986 , 21, 9-15		18
60	Development of a selective sorbent for the solid-phase extraction of terbuthylazine in olive oil samples: a molecular imprinting strategy. <i>Journal of Separation Science</i> , 2015 , 38, 1204-12	3.4	17
59	In vitro adsorption study of fluoxetine in activated carbons and activated carbon fibres. <i>Fuel Processing Technology</i> , 2008 , 89, 549-555	7.2	17
58	Molecular sieve behaviour of activated carbons. <i>Carbon</i> , 1995 , 33, 1307-1312	10.4	16
57	Assessment of Microporosity. <i>Studies in Surface Science and Catalysis</i> , 1988 , 39, 77-87	1.8	16

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	5.3	14
55	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	4.4	14
54	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	5.3	14
53	The Adsorption of Nitrogen on Precipitated and Pyrogenic Silicas. <i>Adsorption Science and Technology</i> , 1984 , 1, 31-39	3.6	14
52	PEEK: An excellent precursor for activated carbon production for high temperature application. <i>Fuel Processing Technology</i> , 2009 , 90, 232-236	7.2	13
51	Chemical Characterization of Activated Carbon Fibers and Activated Carbons. <i>Journal of Chemical Education</i> , 2006 , 83, 436	2.4	13
50	Controlling the micropore size of activated carbons for the treatment of fuels and combustion gases. <i>Applied Surface Science</i> , 2006 , 252, 5953-5956	6.7	13
49	Catalytic and adsorption properties of Al- and Ti-MCM-41 synthesized at room temperature. <i>Reaction Kinetics and Catalysis Letters</i> , 2002 , 77, 83-90		13
48	Stabilization of MCM-41 by Pyrolytic Carbon Deposition. <i>Langmuir</i> , 2000 , 16, 9103-9105	4	12
47	Production of activated carbon cloth with controlled structure and porosity from a new precursor. <i>Journal of Porous Materials</i> , 2007 , 14, 181-190	2.4	11
46	Reference data for the adsorption of dichloromethane on carbon materials. <i>Carbon</i> , 2001 , 39, 465-472	10.4	11
45	The Adsorption of Water Vapour by Microporous Solids. <i>Studies in Surface Science and Catalysis</i> , 1991 , 62, 685-692	1.8	11
44	Activated Carbons Prepared from Natural and Synthetic Raw Materials with Potential Applications in Gas Separations. <i>Advanced Materials Research</i> , 2010 , 107, 1-7	0.5	10
43	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	4.1	10
42	Infrared and quantitative adsorption study of coordinatively unsaturated cations on magnesium hydroxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 579		10
41	A New Method for The Determination of Micropore Size Distributions. <i>Studies in Surface Science and Catalysis</i> , 1988 , 39, 89-100	1.8	10
40	Application of the Frenkel-Halsey-Hill equation to multilayer isotherms of nitrogen on oxides at 77K. <i>Studies in Surface Science and Catalysis</i> , 1982 , 10, 403-410	1.8	10
39	Amine-Modified Carbon Aerogels for CO ₂ Capture. <i>Adsorption Science and Technology</i> , 2013 , 31, 223-233, 6		9

38	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	3.6	9
37	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	3.6	9
36	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	3.6	9
35	Application of the β 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	1.8	9
34	Boron trifluoride initiated polymerisation of isobutene in the micropores of activated charcoal cloth. <i>Carbon</i> , 1991 , 29, 507-513	10.4	9
33	Textural Development of Activated Carbon Prepared from Recycled PET with Different Chemical Activation Agents. <i>Materials Science Forum</i> , 2008 , 587-588, 753-757	0.4	8
32	High micropore activated carbon prepared from polyetheretherketone. <i>Carbon</i> , 2007 , 45, 2454-2455	10.4	8
31	Scanning electron microscopy of activated carbons prepared from commercial acrylic textile fibres. <i>Fuel Processing Technology</i> , 2002 , 77-78, 381-387	7.2	7
30	Evolution of porosity of activated carbon fibres prepared from pre-oxidized acrylic fibres. <i>Microporous and Mesoporous Materials</i> , 2018 , 264, 176-180	5.3	6
29	Designing Activated Carbons from Natural and Synthetic Raw Materials for Pollutants Adsorption. <i>Materials Science Forum</i> , 2010 , 636-637, 1404-1409	0.4	6
28	Ordered Mesoporous Silica Materials for Protein Adsorption. <i>Materials Science Forum</i> , 2010 , 636-637, 54-59	0.4	6
27	Diffusion of gases in metal containing carbon aerogels. <i>Fuel Processing Technology</i> , 2011 , 92, 229-233	7.2	6
26	Adsorption of Bovine Serum Albumin onto Mesocellular Silica Foams with Differently Sized Cells and Windows. <i>Adsorption Science and Technology</i> , 2010 , 28, 777-788	3.6	6
25	Gas Chromatographic Study of Specific Physisorption by Activated Carbons. <i>Adsorption Science and Technology</i> , 1989 , 6, 93-102	3.6	6
24	On the use of ethanol for evaluating microporosity of activated carbons prepared from Polish lignite. <i>Fuel Processing Technology</i> , 2012 , 103, 34-38	7.2	5
23	Simulations of Phenol Adsorption onto Activated Carbon and Carbon Black. <i>Adsorption Science and Technology</i> , 2010 , 28, 797-806	3.6	5
22	Characterisation by adsorption of various organic vapours of the porosity of fresh and coked H-MCM-22 zeolites. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 473-479	5.3	5
21	Reactivity of Cork and Lignin for the Production of Activated Carbons. <i>Materials Science Forum</i> , 2008 , 587-588, 618-622	0.4	5

20	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> , 2007 , 160, 567-574	1.8	5
19	On the Lo/Range of the TVFM. <i>Adsorption Science and Technology</i> , 2006 , 24, 205-214	3.6	5
18	On the Dubinin-Serpinski Equation. <i>Adsorption Science and Technology</i> , 1993 , 10, 63-73	3.6	5
17	Pore structural characteristics of mesostructured materials prepared under different conditions. <i>Studies in Surface Science and Catalysis</i> , 2002 , 144, 363-370	1.8	4
16	Determination of gas chromatographic plate heights for hydrocarbon adsorption by superactivated carbon AX21. <i>Journal of Chromatography A</i> , 1990 , 518, 53-58	4.5	4
15	Nitrogen Adsorption Studies on Non-Porous Silica: The Annealing Effect over Surface Non-Bridging Oxygen Atoms. <i>Adsorption Science and Technology</i> , 2011 , 29, 357-364	3.6	3
14	Adsorption of Water Vapour by Microporous Magnesium Oxide. <i>Studies in Surface Science and Catalysis</i> , 1994 , 497-506	1.8	3
13	Virial Analysis of the Adsorption of Trifluorochloromethane and Methane by Microporous Carbons and Zeolites. <i>Adsorption Science and Technology</i> , 1989 , 6, 136-146	3.6	3
12	Effect of Temperature on Neopentane Isotherms Determined on Non-Porous Non-Graphitized Carbon Black (Elftex). <i>Adsorption Science and Technology</i> , 1989 , 6, 103-109	3.6	2
11	Porosity in ion-exchanged and acid activated clays evaluated using n-nonane pre-adsorption. <i>Microporous and Mesoporous Materials</i> , 2016 , 232, 238-247	5.3	1
10	Hydrothermal Stability of Ordered Mesoporous Titanosilicate Materials Prepared at Room Temperature. <i>Advanced Materials Research</i> , 2010 , 107, 63-70	0.5	1
9	Ordered Mesoporous Titanosilicate Materials Prepared at Room Temperature: Synthesis Conditions vs Structural Properties. <i>Materials Science Forum</i> , 2008 , 587-588, 473-477	0.4	1
8	Different Ways to Regenerate an Activated Carbon: Comparison between an Activated Carbon from Cork and a Commercial Carbon. <i>Materials Science Forum</i> , 2008 , 587-588, 844-848	0.4	1
7	Irradiation of Activated Charcoal Cloth. <i>Studies in Surface Science and Catalysis</i> , 1994 , 87, 661-669	1.8	1
6	Adsorption of Methanol and Water by Charcoal Cloth. <i>Studies in Surface Science and Catalysis</i> , 1991 , 62, 341-346	1.8	1
5	Microstructure of Ex-Hydroxide Magnesium Oxide & Products of Rehydration. <i>Studies in Surface Science and Catalysis</i> , 1991 , 635-643	1.8	1
4	Adsorption of the inhalation anaesthetic isoflurane by activated carbon fibres with reference data on non-porous carbon. <i>Adsorption</i> , 2020 , 26, 627-632	2.6	
3	Characterization of the Surface of Activated Carbons Produced from Tire Residues. <i>Materials Science Forum</i> , 2010 , 636-637, 1383-1388	0.4	

- 2 Structural Characterisation and Mechanical Stability of Titanium Substituted Mesoporous Materials. *Materials Science Forum*, **2010**, 636-637, 136-141 0.4
- 1 Development of Monolithic Materials with and without a Binder with Carbon Molecular Sieving Properties. *Materials Science Forum*, **2008**, 587-588, 805-809 0.4