Alain Celzard

List of Publications by Year
in descending order

406 papers	14,718 citations	19657 61 h-index	37204 96 g-index
414 all docs	414 docs citations	414 times ranked	12569 citing authors

#	Article	IF	Citations
1	Critical concentration in percolating systems containing a high-aspect-ratio filler. Physical Review B, 1996, 53, 6209-6214.	3.2	464
2	Adsorption of phenol onto activated carbons having different textural and surface properties. Microporous and Mesoporous Materials, 2008, 111, 276-284.	4.4	452
3	Hollow carbon spheres, synthesis and applications â€“ a review. Journal of Materials Chemistry A, 2016, 4, 12686-12713.	10.3	266
4	2-Steps KOH activation of rice straw: An efficient method for preparing high-performance activated carbons. Bioresource Technology, 2009, 100, 3941-3947.	9.6	253
5	Modelling of exfoliated graphite. Progress in Materials Science, 2005, 50, 93-179.	32.8	242
6	Tetracycline adsorption onto activated carbons produced by KOH activation of tyre pyrolysis char. Chemosphere, 2016, 149, 168-176.	8.2	234
7	Review of the current technologies and performances of hydrogen compression for stationary and automotive applications. Renewable and Sustainable Energy Reviews, 2019, 102, 150-170.	16.4	227
8	Electrical conductivity of carbonaceous powders. Carbon, 2002, 40, 2801-2815.	10.3	192
9	Tannin-based carbon foams. Carbon, 2009, 47, 1480-1492.	10.3	188
10	Activated carbons prepared from wood particleboard wastes: Characterisation and phenol adsorption capacities. Journal of Hazardous Materials, 2009, 166, 491-501.	12.4	186
11	Tannin-based rigid foams: A survey of chemical and physical properties. Bioresource Technology, 2009, 100, 5162-5169.	9.6	181
12	Arsenic removal by iron-doped activated carbons prepared by ferric chloride forced hydrolysis. Journal of Hazardous Materials, 2009, 168, 430-437.	12.4	137
13	Kraft lignin as a precursor for microporous activated carbons prepared by impregnation with ortho-phosphoric acid: Synthesis and textural characterisation. Microporous and Mesoporous Materials, 2006, 92, 243-250.	4.4	134
14	Nitrogen-doped carbon materials produced from hydrothermally treated tannin. Carbon, 2012, 50, 5411-5420.	10.3	127
15	New tanninâ€“lignin aerogels. Industrial Crops and Products, 2013, 41, 347-355.	5.2	127
16	Rice straw as precursor of activated carbons: Activation with ortho-phosphoric acid. Journal of Hazardous Materials, 2010, 181, 27-34.	12.4	123
17	Environmentâ€friendly soy flourâ€based resins without formaldehyde. Journal of Applied Polymer Science, 2008, 108, 624-632.	2.6	122
18	Methodical study of the chemical activation of Kraft lignin with KOH and NaOH. Microporous and Mesoporous Materials, 2007, 101, 419-431.	4.4	117

#	Article	IF	Citations
19	Preparing a Suitable Material Designed for Methane Storage:â€‰ A Comprehensive Report. Energy & Fuels, 2005, 19, 573-583.	5.1	114
20	PLA with Intumescent System Containing Lignin and Ammonium Polyphosphate for Flame Retardant Textile. Polymers, 2016, 8, 331.	4.5	112
21	Electrical conductivity of anisotropic expanded graphite-based monoliths. Journal Physics D: Applied Physics, 2000, 33, 3094-3101.	2.8	110
22	Synthesis, characterization and performance in arsenic removal of iron-doped activated carbons prepared by impregnation with Fe(III) and Fe(II). Journal of Hazardous Materials, 2009, 165, 893-902.	12.4	109
23	Composites based on micron-sized exfoliated graphite particles: Electrical conduction, critical exponents and anisotropy. Journal of Physics and Chemistry of Solids, 1996, 57, 715-718.	4.0	108
24	Comparison of the thermal, dynamic mechanical and morphological properties of PLA-Lignin & PLA-Tannin particulate green composites. Composites Part B: Engineering, 2015, 82, 92-99.	12.0	107
25	Ligninâ€“phenolâ€“formaldehyde aerogels and cryogels. Microporous and Mesoporous Materials, 2013, 168, 19-29.	4.4	105
26	The use of tannin to prepare carbon gels. Part I: Carbon aerogels. Carbon, 2011, 49, 2773-2784.	10.3	101
27	Pine tannin-based rigid foams: Mechanical and thermal properties. Industrial Crops and Products, 2013, 43, 245-250.	5.2	101
28	Effect of composition and processing parameters on the characteristics of tannin-based rigid foams. Part I: Cell structure. Materials Chemistry and Physics, 2010, 122, 175-182.	4.0	100
29	Biopolymers-based nanocomposites: Membranes from propionated lignin and cellulose for water purification. Carbohydrate Polymers, 2011, 86, 732-741.	10.2	96
30	Mechanical properties of tannin-based rigid foams undergoing compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4438-4446.	5.6	93
31	Enhanced resolution of ultra micropore size determination of biochars and activated carbons by dual gas analysis using N2 and CO2 with 2D-NLDFT adsorption models. Carbon, 2019, 144, 206-215.	10.3	86
32	NaOH activation of anthracites: effect of temperature on pore textures and methane storage ability. Carbon, 2004, 42, 2855-2866.	10.3	85
33	Catalytic decomposition of methane over a wood char concurrently activated by a pyrolysis gas. Applied Catalysis A: General, 2008, 346, 164-173.	4.3	85
34	The use of tannin to prepare carbon gels. Part II. Carbon cryogels. Carbon, 2011, 49, 2785-2794.	10.3	85
35	Porous electrodes-based double-layer supercapacitors: pore structure versus series resistance. Journal of Power Sources, 2002, 108, 153-162.	7.8	82
36	Flammability assessment of tannin-based cellular materials. Polymer Degradation and Stability, 2011, 96, 477-482.	5.8	80

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37	Matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight structure determination of complex thermoset networks: Polyflavonoid tanninâ€“furanic rigid foams. Journal of Applied Polymer Science, 2008, 110, 1451-1456.	2.6	79
38	Experimental evidence of an upper limit for hydrogen storage at 77 K on activated carbons. Carbon, 2010, 48, 1902-1911.	10.3	79
39	Influence of nanoclay on ureaâ€formaldehyde resins for wood adhesives and its model. Journal of Applied Polymer Science, 2008, 109, 2442-2451.	2.6	78
40	Tetracycline removal with activated carbons produced by hydrothermal carbonisation of Agave americana fibres and mimosa tannin. Industrial Crops and Products, 2018, 115, 146-157.	5.2	78
41	Electromagnetic properties of model vitreous carbon foams. Carbon, 2017, 122, 217-227.	10.3	77
42	A review of natural materials for solar evaporation. Solar Energy Materials and Solar Cells, 2021, 219, 110814.	6.2	77
43	A new method for preparing tannin-based foams. Industrial Crops and Products, 2014, 54, 40-53.	5.2	76
44	Influence of the demineralisation on the chemical activation of Kraft lignin with orthophosphoric acid. Journal of Hazardous Materials, 2007, 149, 126-133.	12.4	75
45	Effect of composition and processing parameters on the characteristics of tannin-based rigid foams. Part II: Physical properties. Materials Chemistry and Physics, 2010, 123, 210-217.	4.0	75
46	Study of the decomposition of kraft lignin impregnated with orthophosphoric acid. Thermochimica Acta, 2005, 433, 142-148.	2.7	74
47	Activated carbons doped with Pd nanoparticles for hydrogen storage. International Journal of Hydrogen Energy, 2012, 37, 5072-5080.	7.1	73
48	Bioresourced pine tannin/furanic foams with glyoxal and glutaraldehyde. Industrial Crops and Products, 2013, 45, 401-405.	5.2	73
49	Optimization of activated carbons for hydrogen storage. International Journal of Hydrogen Energy, 2011, 36, 11746-11751.	7.1	72
50	Direct synthesis of ordered mesoporous polymer and carbon materials by a biosourced precursor. Green Chemistry, 2012, 14, 313-316.	9.0	72
51	Energy Storage in Supercapacitors: Focus on Tannin-Derived Carbon Electrodes. Frontiers in Materials, 2020, 7, .	2.4	72
52	Biopolymer-based nanocomposites: effect of lignin acetylation in cellulose triacetate films. Science and Technology of Advanced Materials, 2011, 12, 045006.	6.1	71
53	Epoxy composites filled with high surface area-carbon fillers: Optimization of electromagnetic shielding, electrical, mechanical, and thermal properties. Journal of Applied Physics, 2013, 114, 164304.	2.5	71
54	Improved methane storage capacities by sorption on wet active carbons. Carbon, 2004, 42, 1249-1256.	10.3	67

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55	Adsorption and compression contributions to hydrogen storage in activated anthracites. International Journal of Hydrogen Energy, 2010, 35, 9038-9045.	7.1	67
56	Tailoring the structure of cellular vitreous carbon foams. Carbon, 2012, 50, 2026-2036.	10.3	67
57	Hydrothermally treated aminated tannin as precursor of N-doped carbon gels for supercapacitors. Carbon, 2015, 90, 63-74.	10.3	67
58	Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. ACS Catalysis, 2016, 6, 5618-5628.	11.2	67
59	Effect of deashing rice straws on their derived activated carbons produced by phosphoric acid activation. Biomass and Bioenergy, 2011, 35, 1954-1959.	5.7	66
60	Modelling the reactions of cellulose, hemicellulose and lignin submitted to hydrothermal treatment. Industrial Crops and Products, 2018, 124, 919-930.	5.2	66
61	Surface area of compressed expanded graphite. Carbon, 2002, 40, 2713-2718.	10.3	64
62	Reaction of condensed tannins with ammonia. Industrial Crops and Products, 2013, 44, 330-335.	5.2	63
63	Emulsion-templated porous carbon monoliths derived from tannins. Carbon, 2014, 74, 352-362.	10.3	63
64	Outstanding electrochemical performance of highly N- and O-doped carbons derived from pine tannin. Green Chemistry, 2017, 19, 2653-2665.	9.0	63
65	Adsorption of Bisphenol A on KOH-activated tyre pyrolysis char. Journal of Environmental Chemical Engineering, 2018, 6, 823-833.	6.7	63
66	Detection and quantification of lung cancer biomarkers by a micro-analytical device using a single metal oxide-based gas sensor. Sensors and Actuators B: Chemical, 2018, 255, 391-400.	7.8	63
67	Methane storage capacities and pore textures of active carbons undergoing mechanical densification. Carbon, 2005, 43, 1990-1999.	10.3	62
68	Synthesis of perfectly ordered mesoporous carbons by water-assisted mechanochemical self-assembly of tannin. Green Chemistry, 2018, 20, 5123-5132.	9.0	62
69	Optimal wetting of active carbons for methane hydrate formation. Fuel, 2006, 85, 957-966.	6.4	61
70	Best practices for ORR performance evaluation of metal-free porous carbon electrocatalysts. Carbon, 2022, 189, 349-361.	10.3	61
71	Structure degradation, conservation and rearrangement in the carbonisation of polyflavonoid tannin/furanic rigid foams â€“ A MALDI-TOF investigation. Polymer Degradation and Stability, 2008, 93, 968-975.	5.8	60
72	Electromagnetic shielding efficiency in Ka-band: carbon foam versus epoxy/carbon nanotube composites. Journal of Nanophotonics, 2012, 6, 061715.	1.0	60

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73	Carbon periodic cellular architectures. Carbon, 2015, 88, 70-85.	10.3	60
74	Tannin/furanic foams without blowing agents and formaldehyde. Industrial Crops and Products, 2013, 49, 17-22.	5.2	59
75	Physicochemical characterisation of sugar cane bagasse lignin oxidized by hydrogen peroxide. Polymer Degradation and Stability, 2010, 95, 470-476.	5.8	58
76	Pore structure and electrochemical performances of tannin-based carbon cryogels. Biomass and Bioenergy, 2012, 39, 274-282.	5.7	58
77	Thermal conductivity improvement of composite carbon foams based on tannin-based disordered carbon matrix and graphite fillers. Materials and Design, 2015, 83, 635-643.	7.0	58
78	Easy and eco-friendly synthesis of ordered mesoporous carbons by self-assembly of tannin with a block copolymer. Green Chemistry, 2016, 18, 3265-3271.	9.0	58
79	Green, formaldehyde-free, foams for thermal insulation. Advanced Materials Letters, 2011, 2, 378-382.	0.6	58
80	Densification of expanded graphite. Carbon, 2002, 40, 2185-2191.	10.3	57
81	Methane Storage within Dry and Wet Active Carbons: A Comparative Study. Energy & Fuels, 2003, 17, 1283-1291.	5.1	57
82	Tannin-based xerogels with distinctive porous structures. Biomass and Bioenergy, 2013, 56, 437-445.	5.7	57
83	Mayonnaise, whipped cream and meringue, a new carbon cuisine. Carbon, 2013, 58, 245-248.	10.3	57
84	Excellent electrochemical performances of nanocast ordered mesoporous carbons based on tannin-related polyphenols as supercapacitor electrodes. Journal of Power Sources, 2017, 344, 15-24.	7.8	57
85	Preparation, electrical and elastic properties of new anisotropic expanded graphite-based composites. Carbon, 2002, 40, 557-566.	10.3	56
86	Conduction mechanisms in some graphite - polymer composites: the effect of a direct-current electric field. Journal of Physics Condensed Matter, 1997, 9, 2225-2237.	1.8	55
87	Conduction mechanisms in some graphiteâ€“polymer composites: Effects of temperature and hydrostatic pressure. Journal of Applied Physics, 1998, 83, 1410-1419.	2.5	55
88	Flexible natural tannin-based and protein-based biosourced foams. Industrial Crops and Products, 2012, 37, 389-393.	5.2	55
89	Kinetics of the hydrothermal treatment of tannin for producing carbonaceous microspheres. Bioresource Technology, 2014, 151, 271-277.	9.6	55
90	Structure and electrochemical capacitance of carbon cryogels derived from phenolâ€“formaldehyde resins. Carbon, 2010, 48, 3874-3883.	10.3	54

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91	Activated carbons with appropriate micropore size distribution for hydrogen adsorption. International Journal of Hydrogen Energy, 2011, 36, 5431-5434.	7.1	54
92	Highly mesoporous organic aerogels derived from soy and tannin. Green Chemistry, 2012, 14, 3099.	9.0	54
93	Numerical analysis of flexural strengthening of timber beams reinforced with CFRP strips. Composite Structures, 2014, 111, 393-400.	5.8	54
94	Hydrogen storage in activated carbons produced from coals of different ranks: Effect of oxygen content. International Journal of Hydrogen Energy, 2014, 39, 4996-5002.	7.1	54
95	Ordered mesoporous carbons obtained by soft-templating of tannin in mild conditions. Microporous and Mesoporous Materials, 2018, 270, 127-139.	4.4	54
96	Assessment of hydrogen storage in activated carbons produced from hydrothermally treated organic materials. International Journal of Hydrogen Energy, 2016, 41, 12146-12156.	7.1	53
97	3D printing of carbon-based materials: A review. Carbon, 2021, 183, 449-485.	10.3	53
98	Acoustic properties of cellular vitreous carbon foams. Carbon, 2013, 58, 76-86.	10.3	51
99	Towards Non-Mechanical Hybrid Hydrogen Compression for Decentralized Hydrogen Facilities. Energies, 2020, 13, 3145.	3.1	51
100	Flocculation of cellulose fibres: new comparison of crowding factor with percolation and effective-medium theories. Cellulose, 2009, 16, 983-987.	4.9	49
101	Effect of micropores diffusion on kinetics of CH4 decomposition over a wood-derived carbon catalyst. Applied Catalysis A: General, 2009, 360, 120-125.	4.3	49
102	X-Ray Microtomography Studies of Tannin-Derived Organic and Carbon Foams. Microscopy and Microanalysis, 2009, 15, 384-394.	0.4	48
103	Hydrogen uptake of high surface area-activated carbons doped with nitrogen. International Journal of Hydrogen Energy, 2013, 38, 10453-10460.	7.1	48
104	Lightweight tannin foam/composites sandwich panels and the coldset tannin adhesive to assemble them. Industrial Crops and Products, 2013, 43, 255-260.	5.2	47
105	Systematic studies of tanninâ€“formaldehyde aerogels: preparation and properties. Science and Technology of Advanced Materials, 2013, 14, 015001.	6.1	47
106	MALDI-TOF and 13C NMR Analysis of Tanninâ€“Furanicâ€“Polyurethane Foams Adapted for Industrial Continuous Lines Application. Polymers, 2014, 6, 2985-3004.	4.5	47
107	Impact of synthesis conditions of KOH activated carbons on their hydrogen storage capacities. International Journal of Hydrogen Energy, 2012, 37, 14278-14284.	7.1	46
108	High-Rate Capability of Supercapacitors Based on Tannin-Derived Ordered Mesoporous Carbons. ACS Sustainable Chemistry and Engineering, 2019, 7, 17627-17635.	6.7	46

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109	High surface â€“ Highly N-doped carbons from hydrothermally treated tannin. Industrial Crops and Products, 2015, 66, 282-290.	5.2	44
110	Exploiting the adsorption of simple gases O2 and H2 with minimal quadrupole moments for the dual gas characterization of nanoporous carbons using 2D-NLDFT models. Carbon, 2020, 160, 164-175.	10.3	44
111	Pine (P. pinaster) and quebracho (S. lorentzii) tannin-based foams as green acoustic absorbers. Industrial Crops and Products, 2015, 67, 70-73.	5.2	43
112	Hollow carbon spheres in microwaves: Bio inspired absorbing coating. Applied Physics Letters, 2016, 108, .	3.3	43
113	Mechanical properties of model vitreous carbon foams. Carbon, 2017, 116, 562-571.	10.3	43
114	Combined Effect of Porosity and Surface Chemistry on the Electrochemical Reduction of Oxygen on Cellular Vitreous Carbon Foam Catalyst. ACS Catalysis, 2017, 7, 7466-7478.	11.2	42
115	Hydrophobisation of active carbon surface and effect on the adsorption of water. Carbon, 2005, 43, 2554-2563.	10.3	41
116	Physisorption, chemisorption and spill-over contributions to hydrogen storage. International Journal of Hydrogen Energy, 2016, 41, 17442-17452.	7.1	41
117	Engaging nanoporous carbons in â€œbeyond adsorptionâ€•applications: Characterization, challenges and performance. Carbon, 2020, 164, 69-84.	10.3	41
118	Biobased foams from condensed tannin extracts from Norway spruce (Picea abies) bark. Industrial Crops and Products, 2015, 73, 144-153.	5.2	40
119	Anisotropic percolation in an epoxy - graphite disc composite. Solid State Communications, 1994, 92, 377-383.	1.9	39
120	NaOH activation of anthracites: effect of hydroxide content on pore textures and methane storage ability. Microporous and Mesoporous Materials, 2005, 81, 31-40.	4.4	39
121	Fabrication and characterisation of microporous activated carbon-based pre-concentrators for benzene vapours. Sensors and Actuators B: Chemical, 2008, 132, 90-98.	7.8	39
122	MALDI-ToF investigation of furanic polymer foams before and after carbonization: Aromatic rearrangement and surviving furanic structures. European Polymer Journal, 2008, 44, 2938-2943.	5.4	39
123	Ultralow cost reticulated carbon foams from household cleaning pad wastes. Carbon, 2013, 62, 517-520.	10.3	39
124	Autoâ€Crosslinked Rigid Foams Derived from Biorefinery Byproducts. ChemSusChem, 2018, 11, 2797-2809.	6.8	39
125	A Step Forward in Understanding the Hydrogen Adsorption and Compression on Activated Carbons. ACS Applied Materials & Interfaces, 2021, 13, 12562-12574.	8.0	39
126	Carbon meringues derived from flavonoid tannins. Carbon, 2013, 65, 214-227.	10.3	38

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127	Electrochemical performances of hydrothermal tannin-based carbons doped with nitrogen. Industrial Crops and Products, 2015, 70, 332-340.	5.2	38
128	Gas sensing based on organic composite materials: Review of sensor types, progresses and challenges. Materials Science in Semiconductor Processing, 2021, 128, 105744.	4.0	38
129	Review on the preparation of carbon membranes derived from phenolic resins for gas separation: From petrochemical precursors to bioresources. Carbon, 2021, 183, 12-33.	10.3	38
130	Sucrose-based carbon foams with enhanced thermal conductivity. Industrial Crops and Products, 2016, 89, 498-506.	5.2	37
131	Numerical studies of the effects of process conditions on the development of the porous structure of adsorbents prepared by chemical activation of lignin with alkali hydroxides. Journal of Colloid and Interface Science, 2017, 486, 277-286.	9.4	37
132	Scalar and vectorial percolation in compressed expanded graphite. Physica A: Statistical Mechanics and Its Applications, 2001, 294, 283-294.	2.6	36
133	Influence of Water on the Dynamic Adsorption of Chlorinated VOCs on Active Carbon: Relative Humidity of the Gas Phase versus Pre-Adsorbed Water. Adsorption Science and Technology, 2006, 24, 215-228.	3.2	35
134	Statistical Optimization of the Synthesis of Highly Microporous Carbons by Chemical Activation of Kraft Lignin with NaOH. Journal of Chemical & Engineering Data, 2009, 54, 2216-2221.	1.9	35
135	Flexible-elastic copolymerized polyurethane-tannin foams. Journal of Applied Polymer Science, 2014, 131, n/a-n/a.	2.6	35
136	Structure and properties of poly(furfuryl alcohol)-tannin polyHIPEs. European Polymer Journal, 2016, 78, 195-212.	5.4	35
137	Radiative properties of tannin-based, glasslike, carbon foams. Carbon, 2012, 50, 4102-4113.	10.3	34
138	Finite element analysis of flexural strengthening of timber beams with Carbon Fibre-Reinforced Polymers. Engineering Structures, 2015, 101, 364-375.	5.3	34
139	Non-linear current-voltage characteristics in anisotropic epoxy resin-graphite flake composites. Journal of Materials Science, 1997, 32, 1849-1853.	3.7	33
140	Characterization of materials toward toluene traces detection for air quality monitoring and lung cancer diagnosis. Materials Chemistry and Physics, 2017, 192, 374-382.	4.0	33
141	Hydrothermal pre-treatment, an efficient tool to improve activated carbon performances. Industrial Crops and Products, 2019, 140, 111717.	5.2	33
142	Dielectric properties of graphiteâ€based epoxy composites. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1623-1633.	1.8	32
143	Structure and properties of rigid foams derived from quebracho tannin. Materials & Design, 2014, 63, 208-212.	5.1	32
144	Hydrothermal carbons produced from tannin by modification of the reaction medium: Addition of H + and Ag +. Industrial Crops and Products, 2015, 77, 364-374.	5.2	32

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145	Functionalized, hierarchical and ordered mesoporous carbons for high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 6140-6148.	10.3	32
146	Preparation and structural characterisation of model cellular vitreous carbon foams. Carbon, 2017, 112, 208-218.	10.3	32
147	Influence of formulation on the dynamics of preparation of tannin-based foams. Industrial Crops and Products, 2013, 51, 396-400.	5.2	31
148	Latest progresses in the preparation of tannin-based cellular solids. Journal of Cellular Plastics, 2015, 51, 89-102.	2.4	31
149	Applications of the Sol-Gel Process Using Well-Tested Recipes. Journal of Chemical Education, 2002, 79, 854.	2.3	30
150	Impact of depressurizing rate on the porosity of aerogels. Microporous and Mesoporous Materials, 2012, 152, 240-245.	4.4	30
151	Nanotube-reinforced tannin/furanic rigid foams. Industrial Crops and Products, 2013, 43, 636-639.	5.2	30
152	Biomass-derived, thermally conducting, carbon foams for seasonal thermal storage. Biomass and Bioenergy, 2014, 67, 312-318.	5.7	30
153	Pinus pinaster tannin/furanic foams: PART I. Formulation. Industrial Crops and Products, 2014, 52, 450-456.	5.2	30
154	High surface area microporous carbons as photoreactors for the catalytic photodegradation of methylene blue under UVâ€“vis irradiation. Applied Catalysis A: General, 2016, 517, 1-11.	4.3	30
155	Rice straw-based activated carbons doped with SiC for enhanced hydrogen adsorption. International Journal of Hydrogen Energy, 2017, 42, 11534-11540.	7.1	30
156	Physical meaning of the parameters used in fractal kinetic and generalised adsorption models of Brouersâ€“Sotolongo. Adsorption, 2018, 24, 11-27.	3.0	30
157	Characterization of Carbon Materials for Hydrogen Storage and Compression. Journal of Carbon Research, 2020, 6, 46.	2.7	30
158	Influence of Nanoclay on Phenol-Formaldehyde and Phenol-Urea-Formaldehyde Resins for Wood Adhesives. Journal of Adhesion Science and Technology, 2010, 24, 1567-1576.	2.6	29
159	Modification of tannin based rigid foams using oligomers of a hyperbranched poly(amine-ester). Journal of Polymer Research, 2012, 19, 1.	2.4	29
160	Design of carbon foams for seasonal solar thermal energy storage. Carbon, 2016, 109, 771-787.	10.3	29
161	Confrontation of various adsorption models for assessing the porous structure of activated carbons. Adsorption, 2019, 25, 1673-1682.	3.0	29
162	Improved tribological properties, thermal and colloidal stability of poly-Î±-olefins based lubricants with hydrophobic MoS2 submicron additives. Journal of Colloid and Interface Science, 2020, 562, 91-101.	9.4	29

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163	Non-universal conductivity critical exponents in anisotropic percolating media: a new interpretation. Physica A: Statistical Mechanics and Its Applications, 2003, 317, 305-312.	2.6	28
164	Electrical transport in carbon black-epoxy resin composites at different temperatures. Journal of Applied Physics, 2013, 114, .	2.5	28
165	Tannin-Based Carbon Foams for Electromagnetic Applications. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 989-995.	2.2	28
166	Elastic properties of anisotropic monolithic samples of compressed expanded graphite studied with ultrasounds. Journal of Materials Research, 2001, 16, 606-614.	2.6	27
167	Highly microporous carbons prepared by activation of kraft lignin with KOH. Studies in Surface Science and Catalysis, 2007, 160, 607-614.	1.5	27
168	Acoustic properties of model cellular vitreous carbon foams. Carbon, 2017, 119, 241-250.	10.3	27
169	Ordered mesoporous carbons obtained from low-value coal tar products for electrochemical energy storage and water remediation. Fuel Processing Technology, 2019, 196, 106152.	7.2	27
170	Simple method for characterizing synthetic graphite powders. Journal Physics D: Applied Physics, 2000, 33, 1556-1563.	2.8	26
171	Porosity of resorcinol-formaldehyde organic and carbon aerogels exchanged and dried with supercritical organic solvents. Materials Chemistry and Physics, 2011, 129, 1221-1232.	4.0	26
172	Natural albumin/tannin cellular foams. Industrial Crops and Products, 2015, 73, 41-48.	5.2	26
173	Advances in tailoring the porosity of tannin-based carbon xerogels. Industrial Crops and Products, 2016, 82, 100-106.	5.2	26
174	Fully carbon metasurface: Absorbing coating in microwaves. Journal of Applied Physics, 2017, 121, .	2.5	26
175	Effect of Meso vs Macro Size of Hierarchical Porous Silica on the Adsorption and Activity of Immobilized Î²-Galactosidase. Langmuir, 2017, 33, 3333-3340.	3.5	26
176	High added-value products from the hydrothermal carbonisation of olive stones. Environmental Science and Pollution Research, 2017, 24, 9859-9869.	5.3	26
177	Polycondensation Resins by Flavonoid Tannins Reaction with Amines. Polymers, 2017, 9, 37.	4.5	26
178	Application of the modified Dubinin-Astakhov equation for a better understanding of high-pressure hydrogen adsorption on activated carbons. International Journal of Hydrogen Energy, 2020, 45, 25912-25926.	7.1	26
179	Electrical conductivity of anthracites as a function of heat treatment temperature. Carbon, 2000, 38, 1207-1215.	10.3	25
180	Development and Characterisation of Phenolic Foams with Phenol-Formaldehyde-Chestnut Tannins Resin. Journal of Renewable Materials, 2014, 2, 220-229.	2.2	25

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181	Pinus pinaster tannin/furanic foams: Part II. Physical properties. Industrial Crops and Products, 2014, 61, 531-536.	5.2	25
182	Lignin-Based Carbon Nanofibers as Electrodes for Vanadium Redox Couple Electrochemistry. Nanomaterials, 2019, 9, 106.	4.1	25
183	Oxygen-promoted hydrogen adsorption on activated and hybrid carbon materials. International Journal of Hydrogen Energy, 2020, 45, 30767-30782.	7.1	25
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