Vanessa Fierro

List of Publications by Year in descending order

348 papers	12,680 citations	20817 60 h-index	42399 92 g-index
356 all docs	356 docs citations	356 times ranked	11383 citing authors

#	Article	IF	Citations
1	Adsorption of phenol onto activated carbons having different textural and surface properties. Microporous and Mesoporous Materials, 2008, 111, 276-284.	4.4	452
2	Hollow carbon spheres, synthesis and applications â€“ a review. Journal of Materials Chemistry A, 2016, 4, 12686-12713.	10.3	266
3	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
4	Tetracycline adsorption onto activated carbons produced by KOH activation of tyre pyrolysis char. Chemosphere, 2016, 149, 168-176.	8.2	234
5	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
6	Ethanol reforming for hydrogen production in a hybrid electric vehicle: process optimisation. Journal of Power Sources, 2002, 105, 26-34.	7.8	194
7	Tannin-based carbon foams. Carbon, 2009, 47, 1480-1492.	10.3	188
8	Activated carbons prepared from wood particleboard wastes: Characterisation and phenol adsorption capacities. Journal of Hazardous Materials, 2009, 166, 491-501.	12.4	186
9	Tannin-based rigid foams: A survey of chemical and physical properties. Bioresource Technology, 2009, 100, 5162-5169.	9.6	181
10	Oxidative reforming of biomass derived ethanol for hydrogen production in fuel cell applications. Catalysis Today, 2002, 75, 141-144.	4.4	148
11	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, 21237-21247.	8.0	147
12	Ethanol oxidative steam reforming over Ni-based catalysts. Journal of Power Sources, 2005, 145, 659-666.	7.8	140
13	Arsenic removal by iron-doped activated carbons prepared by ferric chloride forced hydrolysis. Journal of Hazardous Materials, 2009, 168, 430-437.	12.4	137
14	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
15	On-board hydrogen production in a hybrid electric vehicle by bio-ethanol oxidative steam reforming over Ni and noble metal based catalysts. Green Chemistry, 2003, 5, 20-24.	9.0	133
16	Nitrogen-doped carbon materials produced from hydrothermally treated tannin. Carbon, 2012, 50, 5411-5420.	10.3	127
17	New tanninâ€“lignin aerogels. Industrial Crops and Products, 2013, 41, 347-355.	5.2	127
18	Rice straw as precursor of activated carbons: Activation with ortho-phosphoric acid. Journal of Hazardous Materials, 2010, 181, 27-34.	12.4	123

#	Article	IF	Citations
19	Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid. Chemical Engineering Journal, 2005, 106, 1-12.	12.7	118
20	Methodical study of the chemical activation of Kraft lignin with KOH and NaOH. Microporous and Mesoporous Materials, 2007, 101, 419-431.	4.4	117
21	Preparing a Suitable Material Designed for Methane Storage:â€‰ A Comprehensive Report. Energy & Fuels, 2005, 19, 573-583.	5.1	114
22	PLA with Intumescent System Containing Lignin and Ammonium Polyphosphate for Flame Retardant Textile. Polymers, 2016, 8, 331.	4.5	112
23	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
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	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
33	The use of tannin to prepare carbon gels. Part II. Carbon cryogels. Carbon, 2011, 49, 2785-2794.	10.3	85
34	Flammability assessment of tannin-based cellular materials. Polymer Degradation and Stability, 2011, 96, 477-482.	5.8	80
35	Model predictions and experimental results on self-heating prevention of stockpiled coals. Fuel, 2001, 80, 125-134.	6.4	79
36	Experimental evidence of an upper limit for hydrogen storage at 77 K on activated carbons. Carbon, 2010, 48, 1902-1911.	10.3	79

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37	Removal of Lignin and Associated Impurities from Xylo-oligosaccharides by Activated Carbon Adsorption. Industrial & Engineering Chemistry Research, 2006, 45, 2294-2302.	3.7	78
38	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
39	Electromagnetic properties of model vitreous carbon foams. Carbon, 2017, 122, 217-227.	10.3	77
40	A review of natural materials for solar evaporation. Solar Energy Materials and Solar Cells, 2021, 219, 110814.	6.2	77
41	A new method for preparing tannin-based foams. Industrial Crops and Products, 2014, 54, 40-53.	5.2	76
42	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
43	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
44	Prevention of spontaneous combustion in coal stockpiles. Fuel Processing Technology, 1999, 59, 23-34.	7.2	74
45	Study of the decomposition of kraft lignin impregnated with orthophosphoric acid. Thermochimica Acta, 2005, 433, 142-148.	2.7	74
46	Activated carbons doped with Pd nanoparticles for hydrogen storage. International Journal of Hydrogen Energy, 2012, 37, 5072-5080.	7.1	73
47	Optimization of activated carbons for hydrogen storage. International Journal of Hydrogen Energy, 2011, 36, 11746-11751.	7.1	72
48	Energy Storage in Supercapacitors: Focus on Tannin-Derived Carbon Electrodes. Frontiers in Materials, 2020, 7, .	2.4	72
49	Biopolymer-based nanocomposites: effect of lignin acetylation in cellulose triacetate films. Science and Technology of Advanced Materials, 2011, 12, 045006.	6.1	71
50	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
51	Adsorption and compression contributions to hydrogen storage in activated anthracites. International Journal of Hydrogen Energy, 2010, 35, 9038-9045.	7.1	67
52	Cytotoxicity and Genotoxicity of Nanosized and Microsized Titanium Dioxide and Iron Oxide Particles in Syrian Hamster Embryo Cells. Annals of Occupational Hygiene, 2012, 56, 631-44.	1.9	67
53	Tailoring the structure of cellular vitreous carbon foams. Carbon, 2012, 50, 2026-2036.	10.3	67
54	Hydrothermally treated aminated tannin as precursor of N-doped carbon gels for supercapacitors. Carbon, 2015, 90, 63-74.	10.3	67

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55	Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. ACS Catalysis, 2016, 6, 5618-5628.	11.2	67
56	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
57	Modelling the reactions of cellulose, hemicellulose and lignin submitted to hydrothermal treatment. Industrial Crops and Products, 2018, 124, 919-930.	5.2	66
58	Reaction of condensed tannins with ammonia. Industrial Crops and Products, 2013, 44, 330-335.	5.2	63
59	Emulsion-templated porous carbon monoliths derived from tannins. Carbon, 2014, 74, 352-362.	10.3	63
60	Outstanding electrochemical performance of highly N- and O-doped carbons derived from pine tannin. Green Chemistry, 2017, 19, 2653-2665.	9.0	63
61	Adsorption of Bisphenol A on KOH-activated tyre pyrolysis char. Journal of Environmental Chemical Engineering, 2018, 6, 823-833.	6.7	63
62	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
63	Synthesis of perfectly ordered mesoporous carbons by water-assisted mechanochemical self-assembly of tannin. Green Chemistry, 2018, 20, 5123-5132.	9.0	62
64	Best practices for ORR performance evaluation of metal-free porous carbon electrocatalysts. Carbon, 2022, 189, 349-361.	10.3	61
65	Electromagnetic shielding efficiency in Ka-band: carbon foam versus epoxy/carbon nanotube composites. Journal of Nanophotonics, 2012, 6, 061715.	1.0	60
66	Carbon periodic cellular architectures. Carbon, 2015, 88, 70-85.	10.3	60
67	Tannin/furanic foams without blowing agents and formaldehyde. Industrial Crops and Products, 2013, 49, 17-22.	5.2	59
68	Oxidative Steam Reforming of Ethanol over Niâ€“Cu/SiO2, Rh/Al2O3 and Ir/CeO2: Effect of Metal and Support on Reaction Mechanism. Topics in Catalysis, 2008, 51, 22-38.	2.8	58
69	Physicochemical characterisation of sugar cane bagasse lignin oxidized by hydrogen peroxide. Polymer Degradation and Stability, 2010, 95, 470-476.	5.8	58
70	Pore structure and electrochemical performances of tannin-based carbon cryogels. Biomass and Bioenergy, 2012, 39, 274-282.	5.7	58
71	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
72	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

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73	Green, formaldehyde-free, foams for thermal insulation. Advanced Materials Letters, 2011, 2, 378-382.	0.6	58
74	Tannin-based xerogels with distinctive porous structures. Biomass and Bioenergy, 2013, 56, 437-445.	5.7	57
75	Mayonnaise, whipped cream and meringue, a new carbon cuisine. Carbon, 2013, 58, 245-248.	10.3	57
76	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
77	Flexible natural tannin-based and protein-based biosourced foams. Industrial Crops and Products, 2012, 37, 389-393.	5.2	55
78	Aromatic polyamides as new precursors of nitrogen and oxygen-doped ordered mesoporous carbons. Carbon, 2014, 70, 119-129.	10.3	55
79	Kinetics of the hydrothermal treatment of tannin for producing carbonaceous microspheres. Bioresource Technology, 2014, 151, 271-277.	9.6	55
80	Structure and electrochemical capacitance of carbon cryogels derived from phenolâ€“formaldehyde resins. Carbon, 2010, 48, 3874-3883.	10.3	54
81	Activated carbons with appropriate micropore size distribution for hydrogen adsorption. International Journal of Hydrogen Energy, 2011, 36, 5431-5434.	7.1	54
82	Highly mesoporous organic aerogels derived from soy and tannin. Green Chemistry, 2012, 14, 3099.	9.0	54
83	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
84	Ordered mesoporous carbons obtained by soft-templating of tannin in mild conditions. Microporous and Mesoporous Materials, 2018, 270, 127-139.	4.4	54
85	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
86	3D printing of carbon-based materials: A review. Carbon, 2021, 183, 449-485.	10.3	53
87	Acoustic properties of cellular vitreous carbon foams. Carbon, 2013, 58, 76-86.	10.3	51
88	Towards Non-Mechanical Hybrid Hydrogen Compression for Decentralized Hydrogen Facilities. Energies, 2020, 13, 3145.	3.1	51
89	Study of modified calcium hydroxides for enhancing SO2 removal during sorbent injection in pulverized coal boilers. Fuel, 1997, 76, 257-265.	6.4	50
90	Flocculation of cellulose fibres: new comparison of crowding factor with percolation and effective-medium theories. Cellulose, 2009, 16, 983-987.	4.9	49

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91	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
92	X-Ray Microtomography Studies of Tannin-Derived Organic and Carbon Foams. Microscopy and Microanalysis, 2009, 15, 384-394.	0.4	48
93	Hydrogen uptake of high surface area-activated carbons doped with nitrogen. International Journal of Hydrogen Energy, 2013, 38, 10453-10460.	7.1	48
94	Systematic studies of tanninâ€“formaldehyde aerogels: preparation and properties. Science and Technology of Advanced Materials, 2013, 14, 015001.	6.1	47
95	Effect of the pyrolysis process on the physicochemical and mechanical properties of smokeless fuel briquettes. Fuel Processing Technology, 2001, 74, 1-17.	7.2	46
96	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
97	High-Rate Capability of Supercapacitors Based on Tannin-Derived Ordered Mesoporous Carbons. ACS Sustainable Chemistry and Engineering, 2019, 7, 17627-17635.	6.7	46
98	High surface â€“ Highly N-doped carbons from hydrothermally treated tannin. Industrial Crops and Products, 2015, 66, 282-290.	5.2	44
99	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
100	Hollow carbon spheres in microwaves: Bio inspired absorbing coating. Applied Physics Letters, 2016, 108, .	3.3	43
101	Mechanical properties of model vitreous carbon foams. Carbon, 2017, 116, 562-571.	10.3	43
102	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
103	Physisorption, chemisorption and spill-over contributions to hydrogen storage. International Journal of Hydrogen Energy, 2016, 41, 17442-17452.	7.1	41
104	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
105	Ultralow cost reticulated carbon foams from household cleaning pad wastes. Carbon, 2013, 62, 517-520.	10.3	39
106	Autoâ€Crosslinked Rigid Foams Derived from Biorefinery Byproducts. ChemSusChem, 2018, 11, 2797-2809.	6.8	39
107	A Step Forward in Understanding the Hydrogen Adsorption and Compression on Activated Carbons. ACS Applied Materials & Interfaces, 2021, 13, 12562-12574.	8.0	39
108	Factors influencing activated carbon-polymeric composite membrane structure and performance. Journal of Physics and Chemistry of Solids, 2004, 65, 633-637.	4.0	38

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109	Carbon meringues derived from flavonoid tannins. Carbon, 2013, 65, 214-227.	10.3	38
110	Electrochemical performances of hydrothermal tannin-based carbons doped with nitrogen. Industrial Crops and Products, 2015, 70, 332-340.	5.2	38
111	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
112	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
113	Sucrose-based carbon foams with enhanced thermal conductivity. Industrial Crops and Products, 2016, 89, 498-506.	5.2	37
114	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
115	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
116	Structure and properties of poly(furfuryl alcohol)-tannin polyHIPEs. European Polymer Journal, 2016, 78, 195-212.	5.4	35
117	Radiative properties of tannin-based, glasslike, carbon foams. Carbon, 2012, 50, 4102-4113.	10.3	34
118	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
119	Hydrothermal pre-treatment, an efficient tool to improve activated carbon performances. Industrial Crops and Products, 2019, 140, 111717.	5.2	33
120	Modelling for the high-temperature sulphation of calcium-based sorbents with cylindrical and plate-like pore geometries. Chemical Engineering Science, 2000, 55, 3665-3683.	3.8	32
121	Dielectric properties of graphiteâ€based epoxy composites. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1623-1633.	1.8	32
122	Structure and properties of rigid foams derived from quebracho tannin. Materials & Design, 2014, 63, 208-212.	5.1	32
123	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
124	Functionalized, hierarchical and ordered mesoporous carbons for high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 6140-6148.	10.3	32
125	Preparation and structural characterisation of model cellular vitreous carbon foams. Carbon, 2017, 112, 208-218.	10.3	32
126	Latest progresses in the preparation of tannin-based cellular solids. Journal of Cellular Plastics, 2015, 51, 89-102.	2.4	31

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127	Effect of pore geometry on the sintering of Ca-based sorbents during calcination at high temperatures. Fuel, 2004, 83, 1733-1742.	6.4	30
128	Impact of depressurizing rate on the porosity of aerogels. Microporous and Mesoporous Materials, 2012, 152, 240-245.	4.4	30
129	Biomass-derived, thermally conducting, carbon foams for seasonal thermal storage. Biomass and Bioenergy, 2014, 67, 312-318.	5.7	30
130	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
131	Rice straw-based activated carbons doped with SiC for enhanced hydrogen adsorption. International Journal of Hydrogen Energy, 2017, 42, 11534-11540.	7.1	30
132	Physical meaning of the parameters used in fractal kinetic and generalised adsorption models of Brouersâ€“Sotolongo. Adsorption, 2018, 24, 11-27.	3.0	30
133	Characterization of Carbon Materials for Hydrogen Storage and Compression. Journal of Carbon Research, 2020, 6, 46.	2.7	30
134	Modification of tannin based rigid foams using oligomers of a hyperbranched poly(amine-ester). Journal of Polymer Research, 2012, 19, 1.	2.4	29
135	Design of carbon foams for seasonal solar thermal energy storage. Carbon, 2016, 109, 771-787.	10.3	29
136	Confrontation of various adsorption models for assessing the porous structure of activated carbons. Adsorption, 2019, 25, 1673-1682.	3.0	29
137	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
138	Electrical transport in carbon black-epoxy resin composites at different temperatures. Journal of Applied Physics, 2013, 114, .	2.5	28
139	Tannin-Based Carbon Foams for Electromagnetic Applications. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 989-995.	2.2	28
140	Highly microporous carbons prepared by activation of kraft lignin with KOH. Studies in Surface Science and Catalysis, 2007, 160, 607-614.	1.5	27
141	Acoustic properties of model cellular vitreous carbon foams. Carbon, 2017, 119, 241-250.	10.3	27
142	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
143	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
144	The importance of electrode characterization to assess the supercapacitor performance of ordered mesoporous carbons. Microporous and Mesoporous Materials, 2016, 235, 1-8.	4.4	26

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145	Advances in tailoring the porosity of tannin-based carbon xerogels. Industrial Crops and Products, 2016, 82, 100-106.	5.2	26
146	Fully carbon metasurface: Absorbing coating in microwaves. Journal of Applied Physics, 2017, 121, .	2.5	26
147	High added-value products from the hydrothermal carbonisation of olive stones. Environmental Science and Pollution Research, 2017, 24, 9859-9869.	5.3	26
148	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
149	Lignin-Based Carbon Nanofibers as Electrodes for Vanadium Redox Couple Electrochemistry. Nanomaterials, 2019, 9, 106.	4.1	25
150	Oxygen-promoted hydrogen adsorption on activated and hybrid carbon materials. International Journal of Hydrogen Energy, 2020, 45, 30767-30782.	7.1	25
151	Lignin-graphene oxide inks for 3D printing of graphitic materials with tunable density. Nano Today, 2020, 33, 100881.	11.9	25
152	Advanced Preparative Strategies for Activated Carbons Designed for the Adsorptive Storage of Hydrogen. Adsorption Science and Technology, 2007, 25, 129-142.	3.2	24
153	Electromagnetic properties of polyurethane template-based carbon foams in Ka-band. Physica Scripta, 2015, 90, 094019.	2.5	24
154	Catalytic conversion of methane over a biomass char for hydrogen production: deactivation and regeneration by steam gasification. Applied Catalysis A: General, 2015, 490, 170-180.	4.3	24
155	The cluster architecture of carbon in polymer nanocomposites observed by impulse acoustic microscopy. Physica Status Solidi (B): Basic Research, 2016, 253, 1952-1959.	1.5	24
156	â€œGreenâ€• innovative, versatile and efficient carbon materials from polyphenolic plant extracts. Carbon, 2020, 167, 792-815.	10.3	24
157	A 70 MPa hydrogen thermally driven compressor based on cyclic adsorption-desorption on activated carbon. Carbon, 2020, 161, 466-478.	10.3	24
158	Mechanically blown wall-projected tannin-based foams. Industrial Crops and Products, 2018, 113, 316-323.	5.2	23
159	Optimisation of â€œgreenâ€•tannin-furanic foams for thermal insulation by experimental design. Materials and Design, 2018, 139, 7-15.	7.0	23
160	Feasibility of Hydrogen Compression in an Electrochemical System: Focus on Water Transport Mechanisms. Fuel Cells, 2020, 20, 370-380.	2.4	23
161	Electrocatalytic hydrogen evolution on the noble metal-free MoS2/carbon nanotube heterostructure: a theoretical study. Scientific Reports, 2021, 11, 3958.	3.3	23
162	Insulation rigid and elastic foams based on albumin. Industrial Crops and Products, 2012, 37, 149-154.	5.2	22

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163	â€œBlue glueâ€• A new precursor of carbon aerogels. Microporous and Mesoporous Materials, 2012, 158, 272-280.	4.4	22
164	Chemical activation of tannin-based hydrogels by soaking in KOH and NaOH solutions. Microporous and Mesoporous Materials, 2014, 196, 8-17.	4.4	22
165	Biosourced mesoporous carbon with embedded palladium nanoparticles by a one pot soft-template synthesis: application to Suzuki reactions. Journal of Materials Chemistry A, 2015, 3, 12297-12306.	10.3	22
166	Conversion of Natural Tannin to Hydrothermal and Graphene-Like Carbons Studied by Wide-Angle X-ray Scattering. Journal of Physical Chemistry A, 2015, 119, 8692-8701.	2.5	22
167	Biosourced, highly porous, carbon xerogel microspheres. RSC Advances, 2016, 6, 65698-65708.	3.6	22
168	Floating hollow carbon spheres for improved solar evaporation. Carbon, 2019, 146, 232-247.	10.3	22
169	Influence of activation conditions on textural properties and performance of activated biochars for pyrolysis vapors upgrading. Fuel, 2021, 289, 119759.	6.4	22
170	Utilization of Calcium Acetate and Calcium Magnesium Acetate for H2S Removal in Coal Gas Cleaning at High Temperatures. Energy & Fuels, 1999, 13, 440-448.	5.1	21
171	Preparation and catalytic activity of active carbon-supported Mo2C nanoparticles. Green Chemistry, 2005, 7, 784.	9.0	21
172	Upgrading of pine tannin biochars as electrochemical capacitor electrodes. Journal of Colloid and Interface Science, 2021, 601, 863-876.	9.4	21
173	Activation of biomass-derived charcoal with supercritical water. Microporous and Mesoporous Materials, 2009, 119, 53-59.	4.4	20
174	Tannin-based monoliths from emulsion-templating. Materials & Design, 2015, 79, 115-126.	5.1	20
175	Stability analysis of tannin-based foams using multiple light-scattering measurements. European Polymer Journal, 2017, 87, 318-330.	5.4	20
176	Boron Nitride Nanotube as an Antimicrobial Peptide Carrier: A Theoretical Insight. International Journal of Nanomedicine, 2021, Volume 16, 1837-1847.	6.7	20
177	Towards a GC-based microsystem for benzene and 1,3 butadiene detection: Pre-concentrator characterization. Sensors and Actuators B: Chemical, 2011, 156, 680-688.	7.8	19
178	Characterization of multi-walled carbon nanotube dispersion in resorcinolâ€“formaldehyde aerogels. Microporous and Mesoporous Materials, 2014, 184, 97-104.	4.4	19
179	Novel Porous Carbons Derived from Coal Tar Rejects: Assessment of the Role of Pore Texture in CO₂ Capture under Realistic Postcombustion Operating Temperatures. ACS Applied Materials & Interfaces, 2019, 11, 36789-36799.	8.0	19
180	Hydration mechanisms of scheelite from adsorption isotherms and ab initio molecular dynamics simulations. Applied Surface Science, 2021, 562, 150137.	6.1	19

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181	H2S Removal in Entrained Flow Reactors by Injection of Ca-Based Sorbents at High Temperatures. Energy & Fuels, 1998, 12, 726-733.	5.1	18
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