

# Vanessa Fierro

## List of Publications by Year in descending order

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348  
papers

12,680  
citations

20797

60  
h-index

42364

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. <i>Microporous and Mesoporous Materials</i> , 2008, 111, 276-284.  | 2.2 | 452       |
| 2  | Hollow carbon spheres, synthesis and applications – a review. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12686-12713.  | 5.2 | 266       |
| 3  | 2-Steps KOH activation of rice straw: An efficient method for preparing high-performance activated carbons. <i>Bioresource Technology</i> , 2009, 100, 3941-3947.  | 4.8 | 253       |
| 4  | Tetracycline adsorption onto activated carbons produced by KOH activation of tyre pyrolysis char. <i>Chemosphere</i> , 2016, 149, 168-176.   | 4.2 | 234       |
| 5  | Review of the current technologies and performances of hydrogen compression for stationary and automotive applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 102, 150-170.                                | 8.2 | 227       |
| 6  | Ethanol reforming for hydrogen production in a hybrid electric vehicle: process optimisation. <i>Journal of Power Sources</i> , 2002, 105, 26-34.  | 4.0 | 194       |
| 7  | Tannin-based carbon foams. <i>Carbon</i> , 2009, 47, 1480-1492.  | 5.4 | 188       |
| 8  | Activated carbons prepared from wood particleboard wastes: Characterisation and phenol adsorption capacities. <i>Journal of Hazardous Materials</i> , 2009, 166, 491-501.  | 6.5 | 186       |
| 9  | Tannin-based rigid foams: A survey of chemical and physical properties. <i>Bioresource Technology</i> , 2009, 100, 5162-5169.  | 4.8 | 181       |
| 10 | Oxidative reforming of biomass derived ethanol for hydrogen production in fuel cell applications. <i>Catalysis Today</i> , 2002, 75, 141-144.  | 2.2 | 148       |
| 11 | Influence of Porous Texture and Surface Chemistry on the CO <sub>2</sub> Adsorption Capacity of Porous Carbons: Acidic and Basic Site Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 21237-21247.    | 4.0 | 147       |
| 12 | Ethanol oxidative steam reforming over Ni-based catalysts. <i>Journal of Power Sources</i> , 2005, 145, 659-666.   | 4.0 | 140       |
| 13 | Arsenic removal by iron-doped activated carbons prepared by ferric chloride forced hydrolysis. <i>Journal of Hazardous Materials</i> , 2009, 168, 430-437.   | 6.5 | 137       |
| 14 | Kraft lignin as a precursor for microporous activated carbons prepared by impregnation with ortho-phosphoric acid: Synthesis and textural characterisation. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 243-250. | 2.2 | 134       |
| 15 | On-board hydrogen production in a hybrid electric vehicle by bio-ethanol oxidative steam reforming over Ni and noble metal based catalysts. <i>Green Chemistry</i> , 2003, 5, 20-24.   | 4.6 | 133       |
| 16 | Nitrogen-doped carbon materials produced from hydrothermally treated tannin. <i>Carbon</i> , 2012, 50, 5411-5420.  | 5.4 | 127       |
| 17 | New tannin–lignin aerogels. <i>Industrial Crops and Products</i> , 2013, 41, 347-355.  | 2.5 | 127       |
| 18 | Rice straw as precursor of activated carbons: Activation with ortho-phosphoric acid. <i>Journal of Hazardous Materials</i> , 2010, 181, 27-34.   | 6.5 | 123       |

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|----|--|-----|-----------|
| 19 | Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid. <i>Chemical Engineering Journal</i> , 2005, 106, 1-12.  | 6.6 | 118       |
| 20 | Methodical study of the chemical activation of Kraft lignin with KOH and NaOH. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 419-431.   | 2.2 | 117       |
| 21 | Preparing a Suitable Material Designed for Methane Storage: A Comprehensive Report. <i>Energy &amp; Fuels</i> , 2005, 19, 573-583.   | 2.5 | 114       |
| 22 | PLA with Intumescent System Containing Lignin and Ammonium Polyphosphate for Flame Retardant Textile. <i>Polymers</i> , 2016, 8, 331.  | 2.0 | 112       |
| 23 | Synthesis, characterization and performance in arsenic removal of iron-doped activated carbons prepared by impregnation with Fe(III) and Fe(II). <i>Journal of Hazardous Materials</i> , 2009, 165, 893-902.                   | 6.5 | 109       |
| 24 | Comparison of the thermal, dynamic mechanical and morphological properties of PLA-Lignin & PLA-Tannin particulate green composites. <i>Composites Part B: Engineering</i> , 2015, 82, 92-99.                                   | 5.9 | 107       |
| 25 | Lignin-phenol-formaldehyde aerogels and cryogels. <i>Microporous and Mesoporous Materials</i> , 2013, 168, 19-29.  | 2.2 | 105       |
| 26 | The use of tannin to prepare carbon gels. Part I: Carbon aerogels. <i>Carbon</i> , 2011, 49, 2773-2784.  | 5.4 | 101       |
| 27 | Pine tannin-based rigid foams: Mechanical and thermal properties. <i>Industrial Crops and Products</i> , 2013, 43, 245-250.  | 2.5 | 101       |
| 28 | Effect of composition and processing parameters on the characteristics of tannin-based rigid foams. Part I: Cell structure. <i>Materials Chemistry and Physics</i> , 2010, 122, 175-182.                                       | 2.0 | 100       |
| 29 | Biopolymers-based nanocomposites: Membranes from propionated lignin and cellulose for water purification. <i>Carbohydrate Polymers</i> , 2011, 86, 732-741.  | 5.1 | 96        |
| 30 | Mechanical properties of tannin-based rigid foams undergoing compression. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4438-4446.                | 2.6 | 93        |
| 31 | Enhanced resolution of ultra micropore size determination of biochars and activated carbons by dual gas analysis using N <sub>2</sub> and CO <sub>2</sub> with 2D-NLDFT adsorption models. <i>Carbon</i> , 2019, 144, 206-215. | 5.4 | 86        |
| 32 | Catalytic decomposition of methane over a wood char concurrently activated by a pyrolysis gas. <i>Applied Catalysis A: General</i> , 2008, 346, 164-173.   | 2.2 | 85        |
| 33 | The use of tannin to prepare carbon gels. Part II. Carbon cryogels. <i>Carbon</i> , 2011, 49, 2785-2794.   | 5.4 | 85        |
| 34 | Flammability assessment of tannin-based cellular materials. <i>Polymer Degradation and Stability</i> , 2011, 96, 477-482.  | 2.7 | 80        |
| 35 | Model predictions and experimental results on self-heating prevention of stockpiled coals. <i>Fuel</i> , 2001, 80, 125-134.  | 3.4 | 79        |
| 36 | Experimental evidence of an upper limit for hydrogen storage at 77 K on activated carbons. <i>Carbon</i> , 2010, 48, 1902-1911.  | 5.4 | 79        |

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|----|--|-----|-----------|
| 37 | Removal of Lignin and Associated Impurities from Xylo-oligosaccharides by Activated Carbon Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 2294-2302.                             | 1.8 | 78        |
| 38 | Tetracycline removal with activated carbons produced by hydrothermal carbonisation of Agave americana fibres and mimosa tannin. <i>Industrial Crops and Products</i> , 2018, 115, 146-157.                       | 2.5 | 78        |
| 39 | Electromagnetic properties of model vitreous carbon foams. <i>Carbon</i> , 2017, 122, 217-227.   | 5.4 | 77        |
| 40 | A review of natural materials for solar evaporation. <i>Solar Energy Materials and Solar Cells</i> , 2021, 219, 110814.  | 3.0 | 77        |
| 41 | A new method for preparing tannin-based foams. <i>Industrial Crops and Products</i> , 2014, 54, 40-53.   | 2.5 | 76        |
| 42 | Influence of the demineralisation on the chemical activation of Kraft lignin with orthophosphoric acid. <i>Journal of Hazardous Materials</i> , 2007, 149, 126-133.  | 6.5 | 75        |
| 43 | Effect of composition and processing parameters on the characteristics of tannin-based rigid foams. Part II: Physical properties. <i>Materials Chemistry and Physics</i> , 2010, 123, 210-217.                   | 2.0 | 75        |
| 44 | Prevention of spontaneous combustion in coal stockpiles. <i>Fuel Processing Technology</i> , 1999, 59, 23-34.  | 3.7 | 74        |
| 45 | Study of the decomposition of kraft lignin impregnated with orthophosphoric acid. <i>Thermochimica Acta</i> , 2005, 433, 142-148.  | 1.2 | 74        |
| 46 | Activated carbons doped with Pd nanoparticles for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5072-5080.   | 3.8 | 73        |
| 47 | Optimization of activated carbons for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11746-11751.   | 3.8 | 72        |
| 48 | Energy Storage in Supercapacitors: Focus on Tannin-Derived Carbon Electrodes. <i>Frontiers in Materials</i> , 2020, 7, .   | 1.2 | 72        |
| 49 | Biopolymer-based nanocomposites: effect of lignin acetylation in cellulose triacetate films. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 045006.   | 2.8 | 71        |
| 50 | Epoxy composites filled with high surface area-carbon fillers: Optimization of electromagnetic shielding, electrical, mechanical, and thermal properties. <i>Journal of Applied Physics</i> , 2013, 114, 164304. | 1.1 | 71        |
| 51 | Adsorption and compression contributions to hydrogen storage in activated anthracites. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 9038-9045.  | 3.8 | 67        |
| 52 | Cytotoxicity and Genotoxicity of Nanosized and Microsized Titanium Dioxide and Iron Oxide Particles in Syrian Hamster Embryo Cells. <i>Annals of Occupational Hygiene</i> , 2012, 56, 631-44.                    | 1.9 | 67        |
| 53 | Tailoring the structure of cellular vitreous carbon foams. <i>Carbon</i> , 2012, 50, 2026-2036.  | 5.4 | 67        |
| 54 | Hydrothermally treated aminated tannin as precursor of N-doped carbon gels for supercapacitors. <i>Carbon</i> , 2015, 90, 63-74.   | 5.4 | 67        |

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|----|---|-----|-----------|
| 55 | Electrochemical Reduction of Oxygen on Hydrophobic Ultramicroporous PolyHIPE Carbon. <i>ACS Catalysis</i> , 2016, 6, 5618-5628.   | 5.5 | 67        |
| 56 | Effect of deashing rice straws on their derived activated carbons produced by phosphoric acid activation. <i>Biomass and Bioenergy</i> , 2011, 35, 1954-1959.   | 2.9 | 66        |
| 57 | Modelling the reactions of cellulose, hemicellulose and lignin submitted to hydrothermal treatment. <i>Industrial Crops and Products</i> , 2018, 124, 919-930.  | 2.5 | 66        |
| 58 | Reaction of condensed tannins with ammonia. <i>Industrial Crops and Products</i> , 2013, 44, 330-335.   | 2.5 | 63        |
| 59 | Emulsion-templated porous carbon monoliths derived from tannins. <i>Carbon</i> , 2014, 74, 352-362.   | 5.4 | 63        |
| 60 | Outstanding electrochemical performance of highly N- and O-doped carbons derived from pine tannin. <i>Green Chemistry</i> , 2017, 19, 2653-2665.  | 4.6 | 63        |
| 61 | Adsorption of Bisphenol A on KOH-activated tyre pyrolysis char. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 823-833.  | 3.3 | 63        |
| 62 | Detection and quantification of lung cancer biomarkers by a micro-analytical device using a single metal oxide-based gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 391-400.                                 | 4.0 | 63        |
| 63 | Synthesis of perfectly ordered mesoporous carbons by water-assisted mechanochemical self-assembly of tannin. <i>Green Chemistry</i> , 2018, 20, 5123-5132.  | 4.6 | 62        |
| 64 | Best practices for ORR performance evaluation of metal-free porous carbon electrocatalysts. <i>Carbon</i> , 2022, 189, 349-361.   | 5.4 | 61        |
| 65 | Electromagnetic shielding efficiency in Ka-band: carbon foam versus epoxy/carbon nanotube composites. <i>Journal of Nanophotonics</i> , 2012, 6, 061715.  | 0.4 | 60        |
| 66 | Carbon periodic cellular architectures. <i>Carbon</i> , 2015, 88, 70-85.  | 5.4 | 60        |
| 67 | Tannin/furanic foams without blowing agents and formaldehyde. <i>Industrial Crops and Products</i> , 2013, 49, 17-22.   | 2.5 | 59        |
| 68 | Oxidative Steam Reforming of Ethanol over Ni-Cu/SiO <sub>2</sub> , Rh/Al <sub>2</sub> O <sub>3</sub> and Ir/CeO <sub>2</sub> : Effect of Metal and Support on Reaction Mechanism. <i>Topics in Catalysis</i> , 2008, 51, 22-38. | 1.3 | 58        |
| 69 | Physicochemical characterisation of sugar cane bagasse lignin oxidized by hydrogen peroxide. <i>Polymer Degradation and Stability</i> , 2010, 95, 470-476.  | 2.7 | 58        |
| 70 | Pore structure and electrochemical performances of tannin-based carbon cryogels. <i>Biomass and Bioenergy</i> , 2012, 39, 274-282.  | 2.9 | 58        |
| 71 | Thermal conductivity improvement of composite carbon foams based on tannin-based disordered carbon matrix and graphite fillers. <i>Materials and Design</i> , 2015, 83, 635-643.  | 3.3 | 58        |
| 72 | Easy and eco-friendly synthesis of ordered mesoporous carbons by self-assembly of tannin with a block copolymer. <i>Green Chemistry</i> , 2016, 18, 3265-3271.  | 4.6 | 58        |

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|----|---|-----|-----------|
| 73 | Green, formaldehyde-free, foams for thermal insulation. <i>Advanced Materials Letters</i> , 2011, 2, 378-382.   | 0.3 | 58        |
| 74 | Tannin-based xerogels with distinctive porous structures. <i>Biomass and Bioenergy</i> , 2013, 56, 437-445.   | 2.9 | 57        |
| 75 | Mayonnaise, whipped cream and meringue, a new carbon cuisine. <i>Carbon</i> , 2013, 58, 245-248.  | 5.4 | 57        |
| 76 | Excellent electrochemical performances of nanocast ordered mesoporous carbons based on tannin-related polyphenols as supercapacitor electrodes. <i>Journal of Power Sources</i> , 2017, 344, 15-24. | 4.0 | 57        |
| 77 | Flexible natural tannin-based and protein-based biosourced foams. <i>Industrial Crops and Products</i> , 2012, 37, 389-393.   | 2.5 | 55        |
| 78 | Aromatic polyamides as new precursors of nitrogen and oxygen-doped ordered mesoporous carbons. <i>Carbon</i> , 2014, 70, 119-129.   | 5.4 | 55        |
| 79 | Kinetics of the hydrothermal treatment of tannin for producing carbonaceous microspheres. <i>Bioresource Technology</i> , 2014, 151, 271-277.   | 4.8 | 55        |
| 80 | Structure and electrochemical capacitance of carbon cryogels derived from phenol-formaldehyde resins. <i>Carbon</i> , 2010, 48, 3874-3883.  | 5.4 | 54        |
| 81 | Activated carbons with appropriate micropore size distribution for hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5431-5434.                                      | 3.8 | 54        |
| 82 | Highly mesoporous organic aerogels derived from soy and tannin. <i>Green Chemistry</i> , 2012, 14, 3099.  | 4.6 | 54        |
| 83 | Hydrogen storage in activated carbons produced from coals of different ranks: Effect of oxygen content. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4996-5002.                      | 3.8 | 54        |
| 84 | Ordered mesoporous carbons obtained by soft-templating of tannin in mild conditions. <i>Microporous and Mesoporous Materials</i> , 2018, 270, 127-139.  | 2.2 | 54        |
| 85 | Assessment of hydrogen storage in activated carbons produced from hydrothermally treated organic materials. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12146-12156.                | 3.8 | 53        |
| 86 | 3D printing of carbon-based materials: A review. <i>Carbon</i> , 2021, 183, 449-485.  | 5.4 | 53        |
| 87 | Acoustic properties of cellular vitreous carbon foams. <i>Carbon</i> , 2013, 58, 76-86.   | 5.4 | 51        |
| 88 | Towards Non-Mechanical Hybrid Hydrogen Compression for Decentralized Hydrogen Facilities. <i>Energies</i> , 2020, 13, 3145.   | 1.6 | 51        |
| 89 | Study of modified calcium hydroxides for enhancing SO <sub>2</sub> removal during sorbent injection in pulverized coal boilers. <i>Fuel</i> , 1997, 76, 257-265.                                    | 3.4 | 50        |
| 90 | Flocculation of cellulose fibres: new comparison of crowding factor with percolation and effective-medium theories. <i>Cellulose</i> , 2009, 16, 983-987.   | 2.4 | 49        |

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|-----|--|-----|-----------|
| 91  | Effect of micropores diffusion on kinetics of CH <sub>4</sub> decomposition over a wood-derived carbon catalyst. <i>Applied Catalysis A: General</i> , 2009, 360, 120-125.   | 2.2 | 49        |
| 92  | X-Ray Microtomography Studies of Tannin-Derived Organic and Carbon Foams. <i>Microscopy and Microanalysis</i> , 2009, 15, 384-394.   | 0.2 | 48        |
| 93  | Hydrogen uptake of high surface area-activated carbons doped with nitrogen. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10453-10460.   | 3.8 | 48        |
| 94  | Systematic studies of tannin-derived formaldehyde aerogels: preparation and properties. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 015001.  | 2.8 | 47        |
| 95  | Effect of the pyrolysis process on the physicochemical and mechanical properties of smokeless fuel briquettes. <i>Fuel Processing Technology</i> , 2001, 74, 1-17.   | 3.7 | 46        |
| 96  | Impact of synthesis conditions of KOH activated carbons on their hydrogen storage capacities. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14278-14284.   | 3.8 | 46        |
| 97  | High-Rate Capability of Supercapacitors Based on Tannin-Derived Ordered Mesoporous Carbons. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17627-17635.   | 3.2 | 46        |
| 98  | High surface area Highly N-doped carbons from hydrothermally treated tannin. <i>Industrial Crops and Products</i> , 2015, 66, 282-290.   | 2.5 | 44        |
| 99  | Exploiting the adsorption of simple gases O <sub>2</sub> and H <sub>2</sub> with minimal quadrupole moments for the dual gas characterization of nanoporous carbons using 2D-NLDFT models. <i>Carbon</i> , 2020, 160, 164-175. | 5.4 | 44        |
| 100 | Hollow carbon spheres in microwaves: Bio inspired absorbing coating. <i>Applied Physics Letters</i> , 2016, 108, .   | 1.5 | 43        |
| 101 | Mechanical properties of model vitreous carbon foams. <i>Carbon</i> , 2017, 116, 562-571.  | 5.4 | 43        |
| 102 | Combined Effect of Porosity and Surface Chemistry on the Electrochemical Reduction of Oxygen on Cellular Vitreous Carbon Foam Catalyst. <i>ACS Catalysis</i> , 2017, 7, 7466-7478.   | 5.5 | 42        |
| 103 | Physisorption, chemisorption and spill-over contributions to hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17442-17452.  | 3.8 | 41        |
| 104 | Fabrication and characterisation of microporous activated carbon-based pre-concentrators for benzene vapours. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 90-98.   | 4.0 | 39        |
| 105 | Ultralow cost reticulated carbon foams from household cleaning pad wastes. <i>Carbon</i> , 2013, 62, 517-520.  | 5.4 | 39        |
| 106 | Auto-crosslinked Rigid Foams Derived from Biorefinery Byproducts. <i>ChemSusChem</i> , 2018, 11, 2797-2809.  | 3.6 | 39        |
| 107 | A Step Forward in Understanding the Hydrogen Adsorption and Compression on Activated Carbons. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12562-12574.   | 4.0 | 39        |
| 108 | Factors influencing activated carbon-polymeric composite membrane structure and performance. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 633-637.  | 1.9 | 38        |

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|-----|---|-----|-----------|
| 109 | Carbon meringues derived from flavonoid tannins. <i>Carbon</i> , 2013, 65, 214-227.   | 5.4 | 38        |
| 110 | Electrochemical performances of hydrothermal tannin-based carbons doped with nitrogen. <i>Industrial Crops and Products</i> , 2015, 70, 332-340.  | 2.5 | 38        |
| 111 | Gas sensing based on organic composite materials: Review of sensor types, progresses and challenges. <i>Materials Science in Semiconductor Processing</i> , 2021, 128, 105744.  | 1.9 | 38        |
| 112 | Review on the preparation of carbon membranes derived from phenolic resins for gas separation: From petrochemical precursors to bioresources. <i>Carbon</i> , 2021, 183, 12-33.   | 5.4 | 38        |
| 113 | Sucrose-based carbon foams with enhanced thermal conductivity. <i>Industrial Crops and Products</i> , 2016, 89, 498-506.  | 2.5 | 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. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 277-286. | 5.0 | 37        |
| 115 | Statistical Optimization of the Synthesis of Highly Microporous Carbons by Chemical Activation of Kraft Lignin with NaOH. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 2216-2221.  | 1.0 | 35        |
| 116 | Structure and properties of poly(furfuryl alcohol)-tannin polyHIPEs. <i>European Polymer Journal</i> , 2016, 78, 195-212.   | 2.6 | 35        |
| 117 | Radiative properties of tannin-based, glasslike, carbon foams. <i>Carbon</i> , 2012, 50, 4102-4113.   | 5.4 | 34        |
| 118 | Characterization of materials toward toluene traces detection for air quality monitoring and lung cancer diagnosis. <i>Materials Chemistry and Physics</i> , 2017, 192, 374-382.  | 2.0 | 33        |
| 119 | Hydrothermal pre-treatment, an efficient tool to improve activated carbon performances. <i>Industrial Crops and Products</i> , 2019, 140, 111717.   | 2.5 | 33        |
| 120 | Modelling for the high-temperature sulphation of calcium-based sorbents with cylindrical and plate-like pore geometries. <i>Chemical Engineering Science</i> , 2000, 55, 3665-3683.   | 1.9 | 32        |
| 121 | Dielectric properties of graphite-based epoxy composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1623-1633.   | 0.8 | 32        |
| 122 | Structure and properties of rigid foams derived from quebracho tannin. <i>Materials &amp; Design</i> , 2014, 63, 208-212.   | 5.1 | 32        |
| 123 | Hydrothermal carbons produced from tannin by modification of the reaction medium: Addition of H <sup>+</sup> and Ag <sup>+</sup> . <i>Industrial Crops and Products</i> , 2015, 77, 364-374.  | 2.5 | 32        |
| 124 | Functionalized, hierarchical and ordered mesoporous carbons for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6140-6148.   | 5.2 | 32        |
| 125 | Preparation and structural characterisation of model cellular vitreous carbon foams. <i>Carbon</i> , 2017, 112, 208-218.  | 5.4 | 32        |
| 126 | Latest progresses in the preparation of tannin-based cellular solids. <i>Journal of Cellular Plastics</i> , 2015, 51, 89-102.   | 1.2 | 31        |



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|-----|---|-----|-----------|
| 127 | Effect of pore geometry on the sintering of Ca-based sorbents during calcination at high temperatures. <i>Fuel</i> , 2004, 83, 1733-1742.   | 3.4 | 30        |
| 128 | Impact of depressurizing rate on the porosity of aerogels. <i>Microporous and Mesoporous Materials</i> , 2012, 152, 240-245.  | 2.2 | 30        |
| 129 | Biomass-derived, thermally conducting, carbon foams for seasonal thermal storage. <i>Biomass and Bioenergy</i> , 2014, 67, 312-318.   | 2.9 | 30        |
| 130 | High surface area microporous carbons as photoreactors for the catalytic photodegradation of methylene blue under UV-vis irradiation. <i>Applied Catalysis A: General</i> , 2016, 517, 1-11.  | 2.2 | 30        |
| 131 | Rice straw-based activated carbons doped with SiC for enhanced hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11534-11540.  | 3.8 | 30        |
| 132 | Physical meaning of the parameters used in fractal kinetic and generalised adsorption models of Brouers's Sotolongo. <i>Adsorption</i> , 2018, 24, 11-27.   | 1.4 | 30        |
| 133 | Characterization of Carbon Materials for Hydrogen Storage and Compression. <i>Journal of Carbon Research</i> , 2020, 6, 46.   | 1.4 | 30        |
| 134 | Modification of tannin based rigid foams using oligomers of a hyperbranched poly(amine-ester). <i>Journal of Polymer Research</i> , 2012, 19, 1.  | 1.2 | 29        |
| 135 | Design of carbon foams for seasonal solar thermal energy storage. <i>Carbon</i> , 2016, 109, 771-787.   | 5.4 | 29        |
| 136 | Confrontation of various adsorption models for assessing the porous structure of activated carbons. <i>Adsorption</i> , 2019, 25, 1673-1682.  | 1.4 | 29        |
| 137 | Improved tribological properties, thermal and colloidal stability of poly- $\alpha$ -olefins based lubricants with hydrophobic MoS <sub>2</sub> submicron additives. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 91-101. | 5.0 | 29        |
| 138 | Electrical transport in carbon black-epoxy resin composites at different temperatures. <i>Journal of Applied Physics</i> , 2013, 114, .   | 1.1 | 28        |
| 139 | Tannin-Based Carbon Foams for Electromagnetic Applications. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 989-995.  | 1.4 | 28        |
| 140 | Highly microporous carbons prepared by activation of kraft lignin with KOH. <i>Studies in Surface Science and Catalysis</i> , 2007, 160, 607-614.   | 1.5 | 27        |
| 141 | Acoustic properties of model cellular vitreous carbon foams. <i>Carbon</i> , 2017, 119, 241-250.  | 5.4 | 27        |
| 142 | Ordered mesoporous carbons obtained from low-value coal tar products for electrochemical energy storage and water remediation. <i>Fuel Processing Technology</i> , 2019, 196, 106152.   | 3.7 | 27        |
| 143 | Porosity of resorcinol-formaldehyde organic and carbon aerogels exchanged and dried with supercritical organic solvents. <i>Materials Chemistry and Physics</i> , 2011, 129, 1221-1232.   | 2.0 | 26        |
| 144 | The importance of electrode characterization to assess the supercapacitor performance of ordered mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2016, 235, 1-8.  | 2.2 | 26        |

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