

Alain Celzard

List of Publications by Year in descending order

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406
papers

14,718
citations

19636

61
h-index

37183

96
g-index

414
all docs

414
docs citations

414
times ranked

12569
citing authors

#	ARTICLE	IF	CITATIONS
1	Innovative fouling-resistant materials for industrial heat exchangers: a review. <i>Reviews in Chemical Engineering</i> , 2023, 39, 71-104.	2.3	4
2	Irreversible deformation of hyper-crosslinked polymers after hydrogen adsorption. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 513-527.	5.0	11
3	Tannin-based hard carbons as high-performance anode materials for sodium-ion batteries. <i>Materials Today Chemistry</i> , 2022, 23, 100614.	1.7	9
4	Best practices for ORR performance evaluation of metal-free porous carbon electrocatalysts. <i>Carbon</i> , 2022, 189, 349-361.	5.4	61
5	Modeling High-Pressure Hydrogen Uptake by Nanoporous Metal-Organic Frameworks: Implications for Hydrogen Storage and Delivery. <i>ACS Applied Nano Materials</i> , 2022, 5, 759-773.	2.4	11
6	High hydrogen release by cryo-adsorption and compression on porous materials. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 8892-8915.	3.8	18
7	Upgrading of flax powder and short fibers into high value-added products. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107195.	3.3	0
8	Experimental Design Optimization of Acrylate-Tannin Photocurable Resins for 3D Printing of Bio-Based Porous Carbon Architectures. <i>Molecules</i> , 2022, 27, 2091.	1.7	8
9	Roles of Surface Chemistry and Texture of Nanoporous Activated Carbons in CO ₂ Capture. <i>ACS Applied Nano Materials</i> , 2022, 5, 3843-3854.	2.4	12
10	Resonant absorption of electromagnetic waves by an induced inhomogeneity in a liquid metamaterial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 1307.	0.9	1
11	Manufacturing catalyst-coated membranes by ultrasonic spray deposition for PEMFC: Identification of key parameters and their impact on PEMFC performance. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 16165-16178.	3.8	13
12	Biomass-derived carbons physically activated in one or two steps for CH ₄ /CO ₂ separation. <i>Renewable Energy</i> , 2022, 191, 122-133.	4.3	6
13	Easy enrichment of graphitic nitrogen to prepare highly catalytic carbons for oxygen reduction reaction. <i>Carbon</i> , 2022, , .	5.4	7
14	Microwave absorption by carbon-based materials and structures. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	12
15	Tannin-Based Resins for 3D printing of Porous Carbon Architectures. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7702-7711.	3.2	11
16	Better understanding of solar water evaporation systems using a biosourced foam and its modelling. <i>Applied Thermal Engineering</i> , 2022, 214, 118802.	3.0	3
17	Resonant absorption in an inhomogeneous disordered metamaterial: First-principles simulation. <i>Physical Review A</i> , 2022, 106, .	1.0	1
18	CO ₂ outperforms KOH as an activator for high-rate supercapacitors in aqueous electrolyte. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112716.	8.2	12

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19	Numerical simulation of a thermally driven hydrogen compressor as a performance optimization tool. Applied Energy, 2022, 323, 119628.	5.1	10
20	Hydrophobised carbon foams for improved long-term seasonal solar thermal energy storage. Solar Energy Materials and Solar Cells, 2021, 220, 110849.	3.0	16
21	A Sustainable Carbon Material from Kraft Black Liquor as Nickel-Based Electrocatalyst Support for Ethanol Electro-Oxidation. Waste and Biomass Valorization, 2021, 12, 2507-2519.	1.8	8
22	A review of natural materials for solar evaporation. Solar Energy Materials and Solar Cells, 2021, 219, 110814.	3.0	77
23	3D-printed, carbon-based, lossy photonic crystals: Is high electrical conductivity the must?. Carbon, 2021, 171, 484-492.	5.4	17
24	A theoretical scenario for the mechanical failure of boron carbide nanotubes. Computational Materials Science, 2021, 186, 110022.	1.4	16
25	Carbon gels derived from phenolic-oil for pollutants removal in water phase. Fuel Processing Technology, 2021, 211, 106588.	3.7	4
26	Influence of activation conditions on textural properties and performance of activated biochars for pyrolysis vapors upgrading. Fuel, 2021, 289, 119759.	3.4	22
27	Carbon Microspheres with Tailored Texture and Surface Chemistry As Electrode Materials for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2021, 9, 541-551.	3.2	5
28	Control of Light Transmission in a Plasmonic Liquid Metacrystal. Nanomaterials, 2021, 11, 346.	1.9	4
29	Electrocatalytic hydrogen evolution on the noble metal-free MoS ₂ /carbon nanotube heterostructure: a theoretical study. Scientific Reports, 2021, 11, 3958.	1.6	23
30	Effect of the porosity and microstructure on the mechanical properties of organic xerogels. Journal of Materials Science, 2021, 56, 10312-10325.	1.7	8
31	Boron Nitride Nanotube as an Antimicrobial Peptide Carrier: A Theoretical Insight. International Journal of Nanomedicine, 2021, Volume 16, 1837-1847.	3.3	20
32	Dielectric properties of polydimethylsiloxane composites filled with SrTiO_3 nanoparticles. Polymer Composites, 2021, 42, 2982-2988.	2.3	12
33	A Step Forward in Understanding the Hydrogen Adsorption and Compression on Activated Carbons. ACS Applied Materials & Interfaces, 2021, 13, 12562-12574.	4.0	39
34	Mechanochemical Functionalization of Mesoporous Carbons for the Catalytic Transformation of trans-ferulic Acid into Vanillin. ACS Sustainable Chemistry and Engineering, 2021, 9, 4704-4710.	3.2	5
35	Noise and Electrical Characteristics of Composites Filled with Onion-Like Carbon Nanoparticles. Polymers, 2021, 13, 997.	2.0	2
36	Estimation of the reaction kinetic parameters of a mimosa tannin-based thermoset resin with a simulation approach. Industrial Crops and Products, 2021, 161, 113228.	2.5	1

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37	Mechanical and Thermal Behavior of Fibrous Carbon Materials. <i>Materials</i> , 2021, 14, 1796.	1.3	4
38	An Evaluation of the Impact of the Amount of Potassium Hydroxide on the Porous Structure Development of Activated Carbons. <i>Materials</i> , 2021, 14, 2045.	1.3	9
39	Molecular sieving of linear and branched C6 alkanes by tannin-derived carbons. <i>Carbon</i> , 2021, 174, 413-422.	5.4	13
40	Hydration mechanisms of scheelite from adsorption isotherms and ab initio molecular dynamics simulations. <i>Applied Surface Science</i> , 2021, 562, 150137.	3.1	19
41	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
42	Densities of hemp shiv for building: From multiscale characterisation to application. <i>Industrial Crops and Products</i> , 2021, 164, 113390.	2.5	14
43	Enhanced tribological properties of wind turbine engine oil formulated with flower-shaped MoS ₂ nano-additives. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 620, 126509.	2.3	16
44	A critical review on surface modifications mitigating dairy fouling. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021, 20, 4324-4366.	5.9	9
45	Carbon Monoliths with Hierarchical Porous Structure for All-Vanadium Redox Flow Batteries. <i>Batteries</i> , 2021, 7, 55.	2.1	7
46	Novel Porous Carbon Material for the Detection of Traces of Volatile Organic Compounds in Indoor Air. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40088-40097.	4.0	10
47	3D printing of carbon-based materials: A review. <i>Carbon</i> , 2021, 183, 449-485.	5.4	53
48	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
49	Model carbon materials derived from tannin to assess the importance of pore connectivity in supercapacitors. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111600.	8.2	14
50	Upgrading of pine tannin biochars as electrochemical capacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 863-876.	5.0	21
51	Modelling heat and mass transfer in solar evaporation systems. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121852.	2.5	13
52	Comprehensive Analysis of Hierarchical Porous Carbons Using a Dual-Shape 2D-NLDFT Model with an Adjustable Slit-Cylinder Pore Shape Boundary. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49472-49481.	4.0	7
53	All-dielectric bulk isotropic double-negative metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 159.	0.9	1
54	Characterization of Individual Hollow Spheres Metaatoms in Microwaves. , 2021, , .		0

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55	Effect of the adsorption pH and temperature on the parameters of the Brouers's Sotolongo models. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23437-23446.	2.7	11
56	Nanostructured tin oxide materials for the sub-ppm detection of indoor formaldehyde pollution. <i>Talanta</i> , 2020, 208, 120396.	2.9	9
57	Structure and electrochemical properties of carbon nanostructures derived from nickel(II) and iron(II) phthalocyanines. <i>Journal of Advanced Research</i> , 2020, 22, 85-97.	4.4	14
58	Application of the modified Dubinin-Astakhov equation for a better understanding of high-pressure hydrogen adsorption on activated carbons. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25912-25926.	3.8	26
59	Exploiting the adsorption of simple gases O ₂ and H ₂ 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
60	Improved tribological properties, thermal and colloidal stability of poly- α -olefins based lubricants with hydrophobic MoS ₂ submicron additives. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 91-101.	5.0	29
61	First approach for modelling the physical foaming of tannin-based thermoset foams. <i>International Journal of Thermal Sciences</i> , 2020, 149, 106212.	2.6	9
62	Oxygen-promoted hydrogen adsorption on activated and hybrid carbon materials. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 30767-30782.	3.8	25
63	Understanding the Influence of Surface Oxygen Groups on the Electrochemical Behavior of Porous Carbons as Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36054-36065.	4.0	17
64	Paracetamol removal by Kon-Tiki kiln-derived biochar and activated carbons. <i>Industrial Crops and Products</i> , 2020, 155, 112740.	2.5	17
65	New Insights into H ₂ S Adsorption on Graphene and Graphene-Like Structures: A Comparative DFT Study. <i>Journal of Carbon Research</i> , 2020, 6, 74.	1.4	11
66	Hierarchical tannin-derived carbons as efficient tetracycline adsorbents. <i>Applied Surface Science</i> , 2020, 533, 147428.	3.1	12
67	Energy Storage in Supercapacitors: Focus on Tannin-Derived Carbon Electrodes. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	72
68	Characterization of Carbon Materials for Hydrogen Storage and Compression. <i>Journal of Carbon Research</i> , 2020, 6, 46.	1.4	30
69	Electrical percolation and electromagnetic properties of polydimethylsiloxane composites filled with Ag nanoparticles of different sizes. <i>Polymer Composites</i> , 2020, 41, 4750-4756.	2.3	7
70	Enhancing the gas adsorption capacities of UiO-66 by nanographite addition. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110571.	2.2	11
71	Magneto-hydrodynamic self-propulsion of active matter agents. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	4
72	Mechanical Properties of C ₃ N Nanotubes from Molecular Dynamics Simulation Studies. <i>Nanomaterials</i> , 2020, 10, 894.	1.9	15

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73	Lignin-graphene oxide inks for 3D printing of graphitic materials with tunable density. Nano Today, 2020, 33, 100881.	6.2	25
74	“Green”, innovative, versatile and efficient carbon materials from polyphenolic plant extracts. Carbon, 2020, 167, 792-815.	5.4	24
75	Investigating the properties of humins foams, the porous carbonaceous materials derived from biorefinery by-products. Applied Materials Today, 2020, 20, 100622.	2.3	10
76	Synthesis and properties of carbon microspheres based on tannin-sucrose mixtures treated in hydrothermal conditions. Industrial Crops and Products, 2020, 154, 112564.	2.5	16
77	Forcespun metal oxide ultrafine tubes for hazardous gas monitoring. Materials Today: Proceedings, 2020, 27, 3124-3131.	0.9	1
78	Engaging nanoporous carbons in “beyond adsorption” applications: Characterization, challenges and performance. Carbon, 2020, 164, 69-84.	5.4	41
79	Towards Non-Mechanical Hybrid Hydrogen Compression for Decentralized Hydrogen Facilities. Energies, 2020, 13, 3145.	1.6	51
80	A 70 MPa hydrogen thermally driven compressor based on cyclic adsorption-desorption on activated carbon. Carbon, 2020, 161, 466-478.	5.4	24
81	Activated carbon xerogels derived from phenolic oil: Basic catalysis synthesis and electrochemical performances. Fuel Processing Technology, 2020, 205, 106427.	3.7	7
82	Modelling the production of solid and liquid products from the hydrothermal carbonisation of two biomasses. Industrial Crops and Products, 2020, 151, 112452.	2.5	10
83	Imprinting isolated single iron atoms onto mesoporous silica by templating with metallosurfactants. Journal of Colloid and Interface Science, 2020, 573, 193-203.	5.0	17
84	Identification of nanomaterials by the volume specific surface area (VSSA) criterion: application to powder mixes. Nanoscale Advances, 2020, 2, 4908-4917.	2.2	9
85	Effect of UV-Light Illumination on Room Temperature ZnO Nanotubes for Ethanol Gas Sensing. , 2020, 7, 155-165.		1
86	Synergetic effect of triglycine sulfate and graphite nanoplatelets on dielectric and piezoelectric properties of epoxy resin composites. Polymer Composites, 2019, 40, E1181.	2.3	4
87	An Enhanced Carbon Capture and Storage Process (e-CCS) Applied to Shallow Reservoirs Using Nanofluids Based on Nitrogen-Rich Carbon Nanospheres. Materials, 2019, 12, 2088.	1.3	11
88	Electromagnetics of carbon: Nano versus micro. , 2019, , 191-204.		1
89	Toward an operational methodology to identify industrial-scaled nanomaterial powders with the volume specific surface area criterion. Nanoscale Advances, 2019, 1, 3232-3242.	2.2	12
90	Permeability of fibrous carbon materials. Journal of Materials Science, 2019, 54, 13537-13556.	1.7	10

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91	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
92	Modelling the hygrothermal behaviour of cement-bonded wood composite panels as permanent formwork. <i>Industrial Crops and Products</i> , 2019, 142, 111784.	2.5	17
93	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
94	Novel Porous Carbons Derived from Coal Tar Rejects: Assessment of the Role of Pore Texture in CO ₂ Capture under Realistic Postcombustion Operating Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36789-36799.	4.0	19
95	Hydrothermal pre-treatment, an efficient tool to improve activated carbon performances. <i>Industrial Crops and Products</i> , 2019, 140, 111717.	2.5	33
96	Lignin-Based Carbon Nanofibers as Electrodes for Vanadium Redox Couple Electrochemistry. <i>Nanomaterials</i> , 2019, 9, 106.	1.9	25
97	Nanomaterial identification of powders: comparing volume specific surface area, X-ray diffraction and scanning electron microscopy methods. <i>Environmental Science: Nano</i> , 2019, 6, 152-162.	2.2	12
98	Confrontation of various adsorption models for assessing the porous structure of activated carbons. <i>Adsorption</i> , 2019, 25, 1673-1682.	1.4	29
99	Experimental investigation of the physical foaming of tannin-based thermoset foams. <i>Industrial Crops and Products</i> , 2019, 138, 111424.	2.5	10
100	Modelling of a hydrogen thermally driven compressor based on cyclic adsorption-desorption on activated carbon. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16811-16823.	3.8	15
101	A new method for measuring the thermal conductivity of small insulating samples. <i>Review of Scientific Instruments</i> , 2019, 90, 054901.	0.6	6
102	Organic and Carbon Gels. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , .	0.3	15
103	Properties of Carbon Aerogels and Their Organic Precursors. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , 87-121.	0.3	3
104	Fitting Carbon Gels and Composites for Environmental Processes. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , 123-147.	0.3	0
105	Organic and Carbon Gels: From Laboratory to Industry?. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , 1-26.	0.3	1
106	Organic and Carbon Gels Derived from Biosourced Polyphenols. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , 27-85.	0.3	2
107	Carbon Gels for Electrochemical Applications. <i>Advances in Sol-gel Derived Materials and Technologies</i> , 2019, , 149-189.	0.3	1
108	Magnetic Carbon Composite Particles for Dye Adsorption from Water and their Electrochemical Regeneration. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800537.	1.2	9

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109	Effect of morphology and hydrophobization of MoS ₂ microparticles on the stability of poly- α -olefins lubricants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 572, 174-181.	2.3	13
110	Carbon aerogels prepared by autocondensation of flavonoid tannin. <i>Carbon Resources Conversion</i> , 2019, 2, 72-84.	3.2	9
111	Floating hollow carbon spheres for improved solar evaporation. <i>Carbon</i> , 2019, 146, 232-247.	5.4	22
112	Structural Characterisation and Chemical Stability of Commercial Fibrous Carbons in Molten Lithium Salts. <i>Materials</i> , 2019, 12, 4232.	1.3	4
113	Electromagnetic Properties of Carbon Gels. <i>Materials</i> , 2019, 12, 4143.	1.3	6
114	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
115	Enhanced resolution of ultra micropore size determination of biochars and activated carbons by dual gas analysis using N ₂ and CO ₂ with 2D-NLDFT adsorption models. <i>Carbon</i> , 2019, 144, 206-215.	5.4	86
116	Size-Dependent Electrical and Thermal Properties of Onion-Like Carbons/Polyurethane Composites. <i>Polymer Composites</i> , 2018, 39, E1834.	2.3	6
117	Impact of the formulation of biosourced phenolic foams on their fire properties. <i>Polymer Degradation and Stability</i> , 2018, 153, 1-14.	2.7	18
118	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
119	Mechanically blown wall-projected tannin-based foams. <i>Industrial Crops and Products</i> , 2018, 113, 316-323.	2.5	23
120	Adsorption of Model Dyes Onto Porous Materials: Effect of pH and Temperature on the Parameters of Brouers-Sotolongo Kinetic Fractal and Generalized Isotherm. <i>Advances in Science, Technology and Innovation</i> , 2018, , 1039-1041.	0.2	3
121	Physical meaning of the parameters used in fractal kinetic and generalised adsorption models of Brouers-Sotolongo. <i>Adsorption</i> , 2018, 24, 11-27.	1.4	30
122	Adsorption of Bisphenol A on KOH-activated tyre pyrolysis char. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 823-833.	3.3	63
123	The severity factor as a useful tool for producing hydrochars and derived carbon materials. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1497-1507.	2.7	13
124	Optimisation of "green" tannin-furanic foams for thermal insulation by experimental design. <i>Materials and Design</i> , 2018, 139, 7-15.	3.3	23
125	Radiation modification and radiation hardness of microwave properties for some polymer nanocomposites under Co-60 gamma irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 435, 242-245.	0.6	4
126	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

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127	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
128	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
129	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
130	Auto-crosslinked Rigid Foams Derived from Biorefinery Byproducts. <i>ChemSusChem</i> , 2018, 11, 2797-2809.	3.6	39
131	Structure and Electromagnetic Properties of Cellular Glassy Carbon Monoliths with Controlled Cell Size. <i>Materials</i> , 2018, 11, 709.	1.3	14
132	Ultra-low percolation threshold in epoxy resin/onion-like carbon composites. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	13
133	Chemistry of Carbon Nanostructures. Edited by Klaus Mullen and Xinliang Feng. De Gruyter, 2017. Hardcover, Pp. XI+319. Price EUR 89.95, USD 126.00, GBP 67.99. ISBN 978-3-11-028450-8.. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018, 74, 319-321.	0.5	0
134	Lipid-coated mesoporous silica microparticles for the controlled delivery of β -galactosidase into intestines. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5633-5639.	2.9	17
135	Graphite-based composites for whey protein fouling and bacterial adhesion management. <i>International Dairy Journal</i> , 2018, 86, 69-75.	1.5	3
136	Destructive vs. non-destructive methods for the mechanical characterisation of tannin-based thermoset foams. <i>Polymer Testing</i> , 2018, 69, 332-339.	2.3	2
137	Projectable tannin foams by mechanical and chemical expansion. <i>Industrial Crops and Products</i> , 2018, 120, 90-96.	2.5	17
138	Development of a Carbon Felt/Salt-Based Hybrid Material for Thermal Energy Storage Applications. <i>Journal of Energy and Power Engineering</i> , 2018, 12, .	0.2	1
139	Nanoindentation of flexible graphite: experimental versus simulation studies. <i>Advanced Material Science</i> , 2018, 3, .	0.3	1
140	Short-length carbon nanotubes as building blocks for high dielectric constant materials in the terahertz range. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 08LT01.	1.3	14
141	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
142	Mechanical properties of model vitreous carbon foams. <i>Carbon</i> , 2017, 116, 562-571.	5.4	43
143	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
144	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

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145	Electrical Properties of Carbon Foam in the Microwave Range. Russian Physics Journal, 2017, 59, 1703-1709.	0.2	9
146	Acoustic properties of model cellular vitreous carbon foams. Carbon, 2017, 119, 241-250.	5.4	27
147	Outstanding electrochemical performance of highly N- and O-doped carbons derived from pine tannin. Green Chemistry, 2017, 19, 2653-2665.	4.6	63
148	Fully carbon metasurface: Absorbing coating in microwaves. Journal of Applied Physics, 2017, 121, .	1.1	26
149	Fire-resistant tannin-ethylene glycol gels working as rubber springs with tuneable elastic properties. Journal of Materials Chemistry A, 2017, 5, 14720-14732.	5.2	14
150	Resistivity and low-frequency noise characteristics of epoxy-carbon composites. Journal of Applied Physics, 2017, 121, .	1.1	3
151	Effect of Meso vs Macro Size of Hierarchical Porous Silica on the Adsorption and Activity of Immobilized β -Galactosidase. Langmuir, 2017, 33, 3333-3340.	1.6	26
152	Stability analysis of tannin-based foams using multiple light-scattering measurements. European Polymer Journal, 2017, 87, 318-330.	2.6	20
153	MICROWAVE-ABSORBING PROPERTIES OF PHOSPHATE CERAMICS FILLED WITH CARBON NANOTUBES, BaTiO ₃ AND Fe ₃ O ₄ . , 2017, , 202-205.		1
154	Rubber-like materials derived from biosourced phenolic resins. Journal of Physics: Conference Series, 2017, 879, 012013.	0.3	2
155	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.	5.5	42
156	Easy Preparation of Tannin-Based Ag Catalysts for Ethylene Epoxidation. ChemistrySelect, 2017, 2, 8509-8516.	0.7	3
157	Electromagnetic properties of model vitreous carbon foams. Carbon, 2017, 122, 217-227.	5.4	77
158	Preparation and structural characterisation of model cellular vitreous carbon foams. Carbon, 2017, 112, 208-218.	5.4	32
159	High added-value products from the hydrothermal carbonisation of olive stones. Environmental Science and Pollution Research, 2017, 24, 9859-9869.	2.7	26
160	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.	5.0	37
161	Modelling the physical properties of glasslike carbon foams. Journal of Physics: Conference Series, 2017, 879, 012014.	0.3	8
162	Electromagnetic properties of carbon foams. , 2017, , .		1

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163	Polycondensation Resins by Flavonoid Tannins Reaction with Amines. <i>Polymers</i> , 2017, 9, 37.	2.0	26
164	Hydrothermal Treatment of Tannin: A Route to Porous Metal Oxides and Metal/Carbon Hybrid Materials. <i>Inorganics</i> , 2017, 5, 7.	1.2	18
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