Nidia C Gallego

List of Publications by Year
in descending order

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71 papers	2,891 citations	172457 29 h-index	168389 53 g-index
80 all docs	80 docs citations	80 times ranked	3740 citing authors

#	Article	IF	Citations
1	Carbon foams for thermal management. Carbon, 2003, 41, 1461-1466.	10.3	359
2	On the characterization and spinning of an organicâ€purified lignin toward the manufacture of lowâ€cost carbon fiber. Journal of Applied Polymer Science, 2012, 124, 227-234.	2.6	209
3	Lab-in-a-Shell: Encapsulating Metal Clusters for Size Sieving Catalysis. Journal of the American Chemical Society, 2014, 136, 11260-11263.	13.7	152
4	Detection of Hydrogen Spillover in Palladium-Modified Activated Carbon Fibers during Hydrogen Adsorption. Journal of Physical Chemistry C, 2009, 113, 5886-5890.	3.1	151
5	Crown ethers in graphene. Nature Communications, 2014, 5, 5389.	12.8	142
6	Topological Defects: Origin of Nanopores and Enhanced Adsorption Performance in Nanoporous Carbon. Small, 2012, 8, 3283-3288.	10.0	139
7	Film Breakdown and Nano-Porous Mg(OH)₂Formation from Corrosion of Magnesium Alloys in Salt Solutions. Journal of the Electrochemical Society, 2015, 162, C140-C149.	2.9	128
8	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. Green Chemistry, 2016, 18, 5015-5024.	9.0	85
9	Single Pd atoms in activated carbon fibers and their contribution to hydrogen storage. Carbon, 2011, 49, 4050-4058.	10.3	74
10	Atypical hydrogen uptake on chemically-activated, ultramicroporous carbon. Carbon, 2010, 48, 1331-1340.	10.3	70
11	Hydrogen Confinement in Carbon Nanopores: Extreme Densification at Ambient Temperature. Journal of the American Chemical Society, 2011, 133, 13794-13797.	13.7	69
12	Effects of heat treatment conditions on the thermal properties of mesophase pitch-derived graphitic foams. Carbon, 2004, 42, 1849-1852.	10.3	67
13	Kinetic effect of Pd additions on the hydrogen uptake of chemically-activated ultramicroporous carbon. Carbon, 2010, 48, 2361-2364.	10.3	64
14	Thermal characterization of porous carbon foamâ€"convection in parallel flow. International Journal of Heat and Mass Transfer, 2006, 49, 1991-1998.	4.8	61
15	Thermal Treatment Effects on Charge Storage Performance of Graphene-Based Materials for Supercapacitors. ACS Applied Materials & Interfaces, 2012, 4, 3239-3246.	8.0	51
16	Advanced surface and microstructural characterization of natural graphite anodes for lithium ion batteries. Carbon, 2014, 72, 393-401.	10.3	50
17	The thermal conductivity of ribbon-shaped carbon fibers. Carbon, 2000, 38, 1003-1010.	10.3	48
18	Structureâ€"property relationships for high thermal conductivity carbon fibers. Composites Part A: Applied Science and Manufacturing, 2001, 32, 1031-1038.	7.6	47

#	ARTICLE	IF	CITATIONS
19	Modern approaches to studying gas adsorption in nanoporous carbons. Journal of Materials Chemistry A, 2013, 1, 9341.	10.3	47
20	Preparation and characterization of a hybrid alkaline binder based on a fly ash with no commercial value. Journal of Cleaner Production, 2015, 104, 346-352.	9.3	44
21	Tensile properties of 3D-printed wood-filled PLA materials using poplar trees. Applied Materials Today, 2020, 21, 100832.	4.3	43
22	Forced Convection Heat Transfer and Hydraulic Losses in Graphitic Foam. Journal of Heat Transfer, 2007, 129, 1237-1245.	2.1	40
23	Clustering of water molecules in ultramicroporous carbon: In-situ small-angle neutron scattering. Carbon, 2017, 111, 681-688.	10.3	39
24	The role of destabilization of palladium hydride in the hydrogen uptake of Pd-containing activated carbons. Nanotechnology, 2009, 20, 204011.	2.6	35
25	Isotope Effect on Adsorbed Quantum Phases: Diffusion of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">D</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> in Nanoporous Carbon. Physical Review Letters, 2013, 110, 236102.	7.8	35
26	SANS investigations of CO2 adsorption in microporous carbon. Carbon, 2015, 95, 535-544.	10.3	33
27	A Novel MK-based Geopolymer Composite Activated with Rice Husk Ash and KOH: Performance at High Temperature. Materiales De Construccion, 2017, 67, 117.	0.7	33
28	Characterization of Porous Carbon Foam as a Material for Compact Recuperators. Journal of Engineering for Gas Turbines and Power, 2007, 129, 326-330.	1.1	32
29	Investigation of morphology and hydrogen adsorption capacity of disordered carbons. Carbon, 2014, 80, 82-90.	10.3	32
30	Development of mesopores in superfine grain graphite neutron-irradiated at high fluence. Carbon, 2019, 141, 663-675.	10.3	31
31	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. Carbon, 2012, 50, 1071-1082.	10.3	29
32	Sustainable Energyâ€Storage Materials from Ligninâ€“Graphene Nanocompositeâ€Derived Porous Carbon Film. Energy Technology, 2017, 5, 1927-1935.	3.8	29
33	Physical properties of silver-containing pitch-based activated carbon fibers. Carbon, 1999, 37, 1619-1625.	10.3	28
34	STEM imaging of single Pd atoms in activated carbon fibers considered for hydrogen storage. Carbon, 2011, 49, 4059-4063.	10.3	28
35	Generation of Graphite Particles by Sliding Abrasion and Their Characterization. Nuclear Technology, 2015, 189, 241-257.	1.2	25
36	Microstructure-Dependent Gas Adsorption: Accurate Predictions of Methane Uptake in Nanoporous Carbons. Journal of Chemical Theory and Computation, 2014, 10, 1-4.	5.3	22

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37	Modeling the effects of oxidation-induced porosity on the elastic moduli of nuclear graphites. Carbon, 2019, 141, 304-315.	10.3	22
38	Properties of immobile hydrogen confined in microporous carbon. Carbon, 2017, 117, 383-392.	10.3	21
39	Local Atomic Density of Microporous Carbons. Journal of Physical Chemistry C, 2012, 116, 2946-2951.	3.1	20
40	Laser ultrasonic assessment of the effects of porosity and microcracking on the elastic moduli of nuclear graphites. Journal of Nuclear Materials, 2016, 471, 80-91.	2.7	20
41	Beyond the classical kinetic model for chronic graphite oxidation by moisture in high temperature gas-cooled reactors. Carbon, 2018, 127, 158-169.	10.3	20
42	Multiscale characterization and comparison of historical and modern nuclear graphite grades. Materials Characterization, 2022, 190, 112047.	4.4	20
43	The effect of processing conditions on microstructure of Pd-containing activated carbon fibers. Carbon, 2008, 46, 54-61.	10.3	19
44	Thermal characterization of porous graphitic foam â€“ Convection in impinging flow. International Journal of Heat and Mass Transfer, 2009, 52, 4296-4301.	4.8	17
45	Hydration level dependence of the microscopic dynamics of water adsorbed in ultramicroporous carbon. Carbon, 2017, 111, 705-712.	10.3	16
46	Irradiation effects on graphite foam. Carbon, 2006, 44, 618-628.	10.3	15
47	Bimodal mesoporous carbon synthesized from large organic precursor and amphiphilic tri-block copolymer by self-assembly. Microporous and Mesoporous Materials, 2012, 155, 71-74.	4.4	13
48	Effect of microstructure and temperature on nuclear graphite oxidation using the 3D Random Pore Model. Carbon, 2022, 191, 132-145.	10.3	11
49	Chemical and Morphological Structure of Transgenic Switchgrass Organosolv Lignin Extracted by Ethanol, Tetrahydrofuran, and Î³-Valerolactone Pretreatments. ACS Sustainable Chemistry and Engineering, 2022, 10, 9041-9052.	6.7	10
50	Electron tomography of unirradiated and irradiated nuclear graphite. Journal of Nuclear Materials, 2021, 545, 152649.	2.7	9
51	Synthesis of Zeolites from a Low-quality Colombian Kaolin. Clays and Clay Minerals, 2016, 64, 75-85.	1.3	8
52	Probing basal planes and edge sites in polygranular nuclear graphite by gas adsorption: Estimation of active surface area. Carbon, 2021, 179, 633-645.	10.3	8
53	Lignin-Derived Carbon Fibers as Efficient Heterogeneous Solid Acid Catalysts for Esterification of Oleic Acid. MRS Advances, 2018, 3, 2865-2873.	0.9	7
54	Use of Carbon Fibre Composite Molecular Sieves for Air Separation. Adsorption Science and Technology, 2005, 23, 175-194.	3.2	6

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55	Effect of potassium-doping on the microstructure development in polyfurfuryl alcohol â€“ derived activated carbon. Carbon, 2012, 50, 5278-5285.	10.3	6
56	Tetrahydrofuran-Induced K and Li Doping onto Poly(furfuryl alcohol)-Derived Activated Carbon (PFAC): Influence on Microstructure and H₂ Sorption Properties. Langmuir, 2012, 28, 5669-5677.	3.5	6
57	Nitrogen adsorption data, FIB-SEM tomography and TEM micrographs of neutron-irradiated superfine grain graphite. Data in Brief, 2018, 21, 2643-2650.	1.0	6
58	Theory and application of laser ultrasonic shear wave birefringence measurements to the determination of microstructure orientation in transversely isotropic, polycrystalline graphite materials. Carbon, 2017, 115, 460-470.	10.3	5
59	Using porous random fields to predict the elastic modulus of unoxidized and oxidized superfine graphite. Materials and Design, 2022, 220, 110840.	7.0	5
60	Nanoporous Carbon: Topological Defects: Origin of Nanopores and Enhanced Adsorption Performance in Nanoporous Carbon (Small 21/2012). Small, 2012, 8, 3282-3282.	10.0	3
61	Atomic-scale imaging of graphene-based nanoporous carbon. Microscopy and Microanalysis, 2012, 18, 1528-1529.	0.4	2
62	Fine grinding of thermoplastics by high speed friction grinding assisted by guar gum. Journal of Applied Polymer Science, 2021, 138, 50797.	2.6	2
63	Experimental Evidence of Super Densification of Adsorbed Hydrogen by in-situ Small Angle Neutron Scattering (SANS). Materials Research Society Symposia Proceedings, 2011, 1334, 31301.	0.1	1
64	Effects of graphite porosity and anisotropy on measurements of elastic modulus using laser ultrasonics. , 2014, , .		1
65	In situ high pressure XRD study on hydrogen uptake behavior of Pd-carbon systems. Materials Research Society Symposia Proceedings, 2007, 1042, 1.	0.1	0
66	Atomic Resolution Investigation of Metal-Assisted Hydrogen Storage Mechanisms in Activated Carbon Fibers. Microscopy and Microanalysis, 2009, 15, 1426-1427.	0.4	0
67	Monitoring phase behavior of hydrogen confined in carbon nanopores by in-situ Small Angle Neutron Scattering technique. Materials Research Society Symposia Proceedings, 2012, 1440, 49.	0.1	0
68	Characterization of nuclear graphite elastic properties using laser ultrasonic methods. Proceedings of SPIE, 2015, , .	0.8	0
69	Laser ultrasonic assessment of the effects of oxidation and microcracking on the elastic moduli of nuclear graphites. , 2017, , .		0
70	Laser Ultrasonic Sensing of Oxidation-Induced Microstructural Changes in Nuclear Graphites. , 2019, , .		0
71	Carbon-Based Nanostructures. , 2008, , 535-552.		0