Nidia C Gallego

List of Publications by Citations

67 papers	2,327 citations	26 h-index	47 g-index
80 ext. papers	2,625 ext. citations	7.4 avg, IF	4.93 L-index

#	Paper	IF	Citations
67	Carbon foams for thermal management. *Carbon*, **2003**, 41, 1461-1466	10.4	321
66	On the characterization and spinning of an organic-purified lignin toward the manufacture of low-cost carbon fiber. *Journal of Applied Polymer Science*, **2012**, 124, 227-234	2.9	170
65	Detection of Hydrogen Spillover in Palladium-Modified Activated Carbon Fibers during Hydrogen Adsorption. *Journal of Physical Chemistry C*, **2009**, 113, 5886-5890	3.8	137
64	Lab-in-a-shell: encapsulating metal clusters for size sieving catalysis. *Journal of the American Chemical Society*, **2014**, 136, 11260-3	16.4	129
63	Topological defects: origin of nanopores and enhanced adsorption performance in nanoporous carbon. *Small*, **2012**, 8, 3283-8	11	113
62	Crown ethers in graphene. *Nature Communications*, **2014**, 5, 5389	17.4	102
61	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	3.9	98
60	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. *Green Chemistry*, **2016**, 18, 5015-5024	10	75
59	Single Pd atoms in activated carbon fibers and their contribution to hydrogen storage. *Carbon*, **2011**, 49, 4050-4058	10.4	65
58	Kinetic effect of Pd additions on the hydrogen uptake of chemically-activated ultramicroporous carbon. *Carbon*, **2010**, 48, 2361-2364	10.4	62
57	Effects of heat treatment conditions on the thermal properties of mesophase pitch-derived graphitic foams. *Carbon*, **2004**, 42, 1849-1852	10.4	62
56	Atypical hydrogen uptake on chemically-activated, ultramicroporous carbon. *Carbon*, **2010**, 48, 1331-1340	10.4	60
55	Thermal characterization of porous carbon foam□convection in parallel flow. *International Journal of Heat and Mass Transfer*, **2006**, 49, 1991-1998	4.9	53
54	Hydrogen confinement in carbon nanopores: extreme densification at ambient temperature. *Journal of the American Chemical Society*, **2011**, 133, 13794-7	16.4	48
53	Thermal treatment effects on charge storage performance of graphene-based materials for supercapacitors. *ACS Applied Materials & Interfaces*, **2012**, 4, 3239-46	9.5	47
52	The thermal conductivity of ribbon-shaped carbon fibers. *Carbon*, **2000**, 38, 1003-1010	10.4	42
51	Structure□roperty relationships for high thermal conductivity carbon fibers. *Composites Part A: Applied Science and Manufacturing*, **2001**, 32, 1031-1038	8.4	41

50	Advanced surface and microstructural characterization of natural graphite anodes for lithium ion batteries. *Carbon*, **2014**, 72, 393-401	10.4	39
49	Modern approaches to studying gas adsorption in nanoporous carbons. *Journal of Materials Chemistry A*, **2013**, 1, 9341	13	37
48	Forced Convection Heat Transfer and Hydraulic Losses in Graphitic Foam. *Journal of Heat Transfer*, **2007**, 129, 1237-1245	1.8	35
47	Clustering of water molecules in ultramicroporous carbon: In-situ small-angle neutron scattering. *Carbon*, **2017**, 111, 681-688	10.4	34
46	The role of destabilization of palladium hydride in the hydrogen uptake of Pd-containing activated carbons. *Nanotechnology*, **2009**, 20, 204011	3.4	33
45	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	10.3	32
44	Investigation of morphology and hydrogen adsorption capacity of disordered carbons. *Carbon*, **2014**, 80, 82-90	10.4	28
43	SANS investigations of CO2 adsorption in microporous carbon. *Carbon*, **2015**, 95, 535-544	10.4	28
42	Characterization of Porous Carbon Foam as a Material for Compact Recuperators. *Journal of Engineering for Gas Turbines and Power*, **2007**, 129, 326-330	1.7	28
41	Isotope effect on adsorbed quantum phases: diffusion of H2 and D2 in nanoporous carbon. *Physical Review Letters*, **2013**, 110, 236102	7.4	26
40	Physical properties of silver-containing pitch-based activated carbon fibers. *Carbon*, **1999**, 37, 1619-1625	10.4	26
39	STEM imaging of single Pd atoms in activated carbon fibers considered for hydrogen storage. *Carbon*, **2011**, 49, 4059-4063	10.4	24
38	Sustainable Energy-Storage Materials from Lignin□raphene Nanocomposite-Derived Porous Carbon Film. *Energy Technology*, **2017**, 5, 1927-1935	3.5	23
37	Generation of Graphite Particles by Sliding Abrasion and Their Characterization. *Nuclear Technology* , **2015**, 189, 241-257	1.4	22
36	Microstructure-Dependent Gas Adsorption: Accurate Predictions of Methane Uptake in Nanoporous Carbons. *Journal of Chemical Theory and Computation*, **2014**, 10, 1-4	6.4	21
35	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. *Carbon*, **2012**, 50, 1071-1082	10.4	21
34	A Novel MK-based Geopolymer Composite Activated with Rice Husk Ash and KOH: Performance at High Temperature. *Materiales De Construccion*, **2017**, 67, 117	1.8	21
33	Local Atomic Density of Microporous Carbons. *Journal of Physical Chemistry C*, **2012**, 116, 2946-2951	3.8	19

32	The effect of processing conditions on microstructure of Pd-containing activated carbon fibers. *Carbon*, **2008**, 46, 54-61	10.4	18
31	Tensile properties of 3D-printed wood-filled PLA materials using poplar trees. *Applied Materials Today*, **2020**, 21, 100832	6.6	17
30	Hydration level dependence of the microscopic dynamics of water adsorbed in ultramicroporous carbon. *Carbon*, **2017**, 111, 705-712	10.4	15
29	Thermal characterization of porous graphitic foam Convection in impinging flow. *International Journal of Heat and Mass Transfer*, **2009**, 52, 4296-4301	4.9	14
28	Irradiation effects on graphite foam. *Carbon*, **2006**, 44, 618-628	10.4	14
27	Development of mesopores in superfine grain graphite neutron-irradiated at high fluence. *Carbon*, **2019**, 141, 663-675	10.4	14
26	Beyond the classical kinetic model for chronic graphite oxidation by moisture in high temperature gas-cooled reactors. *Carbon*, **2018**, 127, 158-169	10.4	13
25	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	3.3	12
24	Properties of immobile hydrogen confined in microporous carbon. *Carbon*, **2017**, 117, 383-392	10.4	11
23	Bimodal mesoporous carbon synthesized from large organic precursor and amphiphilic tri-block copolymer by self-assembly. *Microporous and Mesoporous Materials*, **2012**, 155, 71-74	5.3	11
22	Modeling the effects of oxidation-induced porosity on the elastic moduli of nuclear graphites. *Carbon*, **2019**, 141, 304-315	10.4	11
21	Effect of potassium-doping on the microstructure development in polyfurfuryl alcohol derived activated carbon. *Carbon*, **2012**, 50, 5278-5285	10.4	6
20	Tetrahydrofuran-induced K and Li doping onto poly(furfuryl alcohol)-derived activated carbon (PFAC): influence on microstructure and H2 sorption properties. *Langmuir*, **2012**, 28, 5669-77	4	6
19	Synthesis of Zeolites from A Low-Quality Colombian Kaolin. *Clays and Clay Minerals*, **2016**, 64, 75-85	2.1	6
18	Lignin-Derived Carbon Fibers as Efficient Heterogeneous Solid Acid Catalysts for Esterification of Oleic Acid. *MRS Advances*, **2018**, 3, 2865-2873	0.7	5
17	Use of Carbon Fibre Composite Molecular Sieves for Air Separation. *Adsorption Science and Technology*, **2005**, 23, 175-194	3.6	5
16	Nanoporous Carbon: Topological Defects: Origin of Nanopores and Enhanced Adsorption Performance in Nanoporous Carbon (Small 21/2012). *Small*, **2012**, 8, 3282-3282	11	3
15	A Review of Stored Energy Release of Irradiated Graphite		3

14	Progress Report on Graphite-Salt Intrusion Studies **2020**,		3
13	Nitrogen adsorption data, FIB-SEM tomography and TEM micrographs of neutron-irradiated superfine grain graphite. *Data in Brief*, **2018**, 21, 2643-2650	1.2	3
12	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	10.4	2
11	Atomic-scale imaging of graphene-based nanoporous carbon. *Microscopy and Microanalysis*, **2012**, 18, 1528-1529	0.5	2
10	Summary of US DOE R&D Activities on Graphite Oxidation (2006 2021) **2021**,		2
9	Electron tomography of unirradiated and irradiated nuclear graphite. *Journal of Nuclear Materials*, **2021**, 545, 152649	3.3	2
8	Experimental Evidence of Super Densification of Adsorbed Hydrogen by in-situ Small Angle Neutron Scattering (SANS). *Materials Research Society Symposia Proceedings*, **2011**, 1334, 31301		1
7	Effect of microstructure and temperature on nuclear graphite oxidation using the 3D Random Pore Model. *Carbon*, **2022**, 191, 132-145	10.4	1
6	Probing basal planes and edge sites in polygranular nuclear graphite by gas adsorption: Estimation of active surface area. *Carbon*, **2021**, 179, 633-645	10.4	1
5	Fine grinding of thermoplastics by high speed friction grinding assisted by guar gum. *Journal of Applied Polymer Science*, **2021**, 138, 50797	2.9	0
4	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		
3	Atomic Resolution Investigation of Metal-Assisted Hydrogen Storage Mechanisms in Activated Carbon Fibers. *Microscopy and Microanalysis*, **2009**, 15, 1426-1427	0.5	
2	In situ high pressure XRD study on hydrogen uptake behavior of Pd-carbon systems. *Materials Research Society Symposia Proceedings*, **2007**, 1042, 1		
1	Carbon-Based Nanostructures **2008**, 535-552		