

Nidia C Gallego

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6344297/nidia-c-gallego-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Effect of microstructure and temperature on nuclear graphite oxidation using the 3D Random Pore Model. <i>Carbon</i> , 2022 , 191, 132-145	10.4	1
66	Summary of US DOE R&D Activities on Graphite Oxidation (2006-2021) 2021 ,		2
65	Fine grinding of thermoplastics by high speed friction grinding assisted by guar gum. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50797	2.9	0
64	Probing basal planes and edge sites in polygranular nuclear graphite by gas adsorption: Estimation of active surface area. <i>Carbon</i> , 2021 , 179, 633-645	10.4	1
63	Electron tomography of unirradiated and irradiated nuclear graphite. <i>Journal of Nuclear Materials</i> , 2021 , 545, 152649	3.3	2
62	Progress Report on Graphite-Salt Intrusion Studies 2020 ,		3
61	Tensile properties of 3D-printed wood-filled PLA materials using poplar trees. <i>Applied Materials Today</i> , 2020 , 21, 100832	6.6	17
60	Modeling the effects of oxidation-induced porosity on the elastic moduli of nuclear graphites. <i>Carbon</i> , 2019 , 141, 304-315	10.4	11
59	Development of mesopores in superfine grain graphite neutron-irradiated at high fluence. <i>Carbon</i> , 2019 , 141, 663-675	10.4	14
58	Lignin-Derived Carbon Fibers as Efficient Heterogeneous Solid Acid Catalysts for Esterification of Oleic Acid. <i>MRS Advances</i> , 2018 , 3, 2865-2873	0.7	5
57	Beyond the classical kinetic model for chronic graphite oxidation by moisture in high temperature gas-cooled reactors. <i>Carbon</i> , 2018 , 127, 158-169	10.4	13
56	Nitrogen adsorption data, FIB-SEM tomography and TEM micrographs of neutron-irradiated superfine grain graphite. <i>Data in Brief</i> , 2018 , 21, 2643-2650	1.2	3
55	Theory and application of laser ultrasonic shear wave birefringence measurements to the determination of microstructure orientation in transversely isotropic, polycrystalline graphite materials. <i>Carbon</i> , 2017 , 115, 460-470	10.4	2
54	Properties of immobile hydrogen confined in microporous carbon. <i>Carbon</i> , 2017 , 117, 383-392	10.4	11
53	Clustering of water molecules in ultramicroporous carbon: In-situ small-angle neutron scattering. <i>Carbon</i> , 2017 , 111, 681-688	10.4	34
52	Hydration level dependence of the microscopic dynamics of water adsorbed in ultramicroporous carbon. <i>Carbon</i> , 2017 , 111, 705-712	10.4	15
51	A Novel MK-based Geopolymer Composite Activated with Rice Husk Ash and KOH: Performance at High Temperature. <i>Materiales De Construccion</i> , 2017 , 67, 117	1.8	21

50	Sustainable Energy-Storage Materials from Lignin-Graphene Nanocomposite-Derived Porous Carbon Film. <i>Energy Technology</i> , 2017 , 5, 1927-1935	3.5	23
49	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. <i>Green Chemistry</i> , 2016 , 18, 5015-5024	10	75
48	Laser ultrasonic assessment of the effects of porosity and microcracking on the elastic moduli of nuclear graphites. <i>Journal of Nuclear Materials</i> , 2016 , 471, 80-91	3.3	12
47	Synthesis of Zeolites from A Low-Quality Colombian Kaolin. <i>Clays and Clay Minerals</i> , 2016 , 64, 75-85	2.1	6
46	Film Breakdown and Nano-Porous Mg(OH) ₂ Formation from Corrosion of Magnesium Alloys in Salt Solutions. <i>Journal of the Electrochemical Society</i> , 2015 , 162, C140-C149	3.9	98
45	Generation of Graphite Particles by Sliding Abrasion and Their Characterization. <i>Nuclear Technology</i> , 2015 , 189, 241-257	1.4	22
44	Preparation and characterization of a hybrid alkaline binder based on a fly ash with no commercial value. <i>Journal of Cleaner Production</i> , 2015 , 104, 346-352	10.3	32
43	SANS investigations of CO ₂ adsorption in microporous carbon. <i>Carbon</i> , 2015 , 95, 535-544	10.4	28
42	Crown ethers in graphene. <i>Nature Communications</i> , 2014 , 5, 5389	17.4	102
41	Investigation of morphology and hydrogen adsorption capacity of disordered carbons. <i>Carbon</i> , 2014 , 80, 82-90	10.4	28
40	Lab-in-a-shell: encapsulating metal clusters for size sieving catalysis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11260-3	16.4	129
39	Microstructure-Dependent Gas Adsorption: Accurate Predictions of Methane Uptake in Nanoporous Carbons. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1-4	6.4	21
38	Advanced surface and microstructural characterization of natural graphite anodes for lithium ion batteries. <i>Carbon</i> , 2014 , 72, 393-401	10.4	39
37	Modern approaches to studying gas adsorption in nanoporous carbons. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9341	13	37
36	Isotope effect on adsorbed quantum phases: diffusion of H ₂ and D ₂ in nanoporous carbon. <i>Physical Review Letters</i> , 2013 , 110, 236102	7.4	26
35	Bimodal mesoporous carbon synthesized from large organic precursor and amphiphilic tri-block copolymer by self-assembly. <i>Microporous and Mesoporous Materials</i> , 2012 , 155, 71-74	5.3	11
34	On the characterization and spinning of an organic-purified lignin toward the manufacture of low-cost carbon fiber. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 227-234	2.9	170
33	Effect of potassium-doping on the microstructure development in polyfurfuryl alcohol derived activated carbon. <i>Carbon</i> , 2012 , 50, 5278-5285	10.4	6

32	Nanoporous Carbon: Topological Defects: Origin of Nanopores and Enhanced Adsorption Performance in Nanoporous Carbon (Small 21/2012). <i>Small</i> , 2012 , 8, 3282-3282	11	3
31	Local Atomic Density of Microporous Carbons. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2946-2951	3.8	19
30	Tetrahydrofuran-induced K and Li doping onto poly(furfuryl alcohol)-derived activated carbon (PFAC): influence on microstructure and H ₂ sorption properties. <i>Langmuir</i> , 2012 , 28, 5669-77	4	6
29	Topological defects: origin of nanopores and enhanced adsorption performance in nanoporous carbon. <i>Small</i> , 2012 , 8, 3283-8	11	113
28	Thermal treatment effects on charge storage performance of graphene-based materials for supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3239-46	9.5	47
27	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. <i>Carbon</i> , 2012 , 50, 1071-1082	10.4	21
26	Monitoring phase behavior of hydrogen confined in carbon nanopores by in-situ Small Angle Neutron Scattering technique. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1440, 49		
25	Atomic-scale imaging of graphene-based nanoporous carbon. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1528-1529	0.5	2
24	Hydrogen confinement in carbon nanopores: extreme densification at ambient temperature. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13794-7	16.4	48
23	STEM imaging of single Pd atoms in activated carbon fibers considered for hydrogen storage. <i>Carbon</i> , 2011 , 49, 4059-4063	10.4	24
22	Single Pd atoms in activated carbon fibers and their contribution to hydrogen storage. <i>Carbon</i> , 2011 , 49, 4050-4058	10.4	65
21	Experimental Evidence of Super Densification of Adsorbed Hydrogen by in-situ Small Angle Neutron Scattering (SANS). <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1334, 31301		1
20	Atypical hydrogen uptake on chemically-activated, ultramicroporous carbon. <i>Carbon</i> , 2010 , 48, 1331-1340	10.4	60
19	Kinetic effect of Pd additions on the hydrogen uptake of chemically-activated ultramicroporous carbon. <i>Carbon</i> , 2010 , 48, 2361-2364	10.4	62
18	The role of destabilization of palladium hydride in the hydrogen uptake of Pd-containing activated carbons. <i>Nanotechnology</i> , 2009 , 20, 204011	3.4	33
17	Thermal characterization of porous graphitic foam [Convection in impinging flow. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 4296-4301	4.9	14
16	Detection of Hydrogen Spillover in Palladium-Modified Activated Carbon Fibers during Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5886-5890	3.8	137
15	Atomic Resolution Investigation of Metal-Assisted Hydrogen Storage Mechanisms in Activated Carbon Fibers. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1426-1427	0.5	

14	The effect of processing conditions on microstructure of Pd-containing activated carbon fibers. <i>Carbon</i> , 2008 , 46, 54-61	10.4	18
13	Carbon-Based Nanostructures 2008 , 535-552		
12	Characterization of Porous Carbon Foam as a Material for Compact Recuperators. <i>Journal of Engineering for Gas Turbines and Power</i> , 2007 , 129, 326-330	1.7	28
11	Forced Convection Heat Transfer and Hydraulic Losses in Graphitic Foam. <i>Journal of Heat Transfer</i> , 2007 , 129, 1237-1245	1.8	35
10	In situ high pressure XRD study on hydrogen uptake behavior of Pd-carbon systems. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1042, 1		
9	Irradiation effects on graphite foam. <i>Carbon</i> , 2006 , 44, 618-628	10.4	14
8	Thermal characterization of porous carbon foam convection in parallel flow. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 1991-1998	4.9	53
7	Use of Carbon Fibre Composite Molecular Sieves for Air Separation. <i>Adsorption Science and Technology</i> , 2005 , 23, 175-194	3.6	5
6	Effects of heat treatment conditions on the thermal properties of mesophase pitch-derived graphitic foams. <i>Carbon</i> , 2004 , 42, 1849-1852	10.4	62
5	Carbon foams for thermal management. <i>Carbon</i> , 2003 , 41, 1461-1466	10.4	321
4	Structure-property relationships for high thermal conductivity carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001 , 32, 1031-1038	8.4	41
3	The thermal conductivity of ribbon-shaped carbon fibers. <i>Carbon</i> , 2000 , 38, 1003-1010	10.4	42
2	Physical properties of silver-containing pitch-based activated carbon fibers. <i>Carbon</i> , 1999 , 37, 1619-1625	10.4	26
1	A Review of Stored Energy Release of Irradiated Graphite		3