

M Martinez-Escandell

List of Publications by Citations

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

65
papers

2,267
citations

25
h-index

47
g-index

66
ext. papers

2,525
ext. citations

7.6
avg. IF

4.77
L-index

#	Paper	IF	Citations
65	High-surface-area carbon molecular sieves for selective CO(2) adsorption. <i>ChemSusChem</i> , 2010 , 3, 974-813	8.3	282
64	Ultrahigh CO2 adsorption capacity on carbon molecular sieves at room temperature. <i>Chemical Communications</i> , 2011 , 47, 6840-2	5.8	153
63	Effect of the porous structure in carbon materials for CO2 capture at atmospheric and high-pressure. <i>Carbon</i> , 2014 , 67, 230-235	10.4	146
62	High-Pressure Methane Storage in Porous Materials: Are Carbon Materials in the Pole Position?. <i>Chemistry of Materials</i> , 2015 , 27, 959-964	9.6	141
61	An activated carbon monolith as an electrode material for supercapacitors. <i>Carbon</i> , 2009 , 47, 195-200	10.4	140
60	Methane hydrate formation in confined nanospace can surpass nature. <i>Nature Communications</i> , 2015 , 6, 6432	17.4	133
59	Semicokes from pitch pyrolysis: mechanisms and kinetics. <i>Carbon</i> , 1999 , 37, 363-390	10.4	101
58	Carbon foam prepared by pyrolysis of olive stones under steam. <i>Carbon</i> , 2006 , 44, 1448-1454	10.4	73
57	Pyrolysis of petroleum residues. <i>Carbon</i> , 2000 , 38, 535-546	10.4	73
56	Paving the way for methane hydrate formation on metal-organic frameworks (MOFs). <i>Chemical Science</i> , 2016 , 7, 3658-3666	9.4	66
55	Micro/Mesoporous Activated Carbons Derived from Polyaniline: Promising Candidates for CO2 Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15398-15405	3.9	57
54	Production of binderless activated carbon monoliths by KOH activation of carbon mesophase materials. <i>Carbon</i> , 2008 , 46, 384-386	10.4	50
53	A site energy distribution function from Toth isotherm for adsorption of gases on heterogeneous surfaces. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5753-9	3.6	48
52	The combined effect of porosity and reactivity of the carbon preforms on the properties of SiC produced by reactive infiltration with liquid Si. <i>Carbon</i> , 2009 , 47, 2200-2210	10.4	45
51	High saturation capacity of activated carbons prepared from mesophase pitch in the removal of volatile organic compounds. <i>Carbon</i> , 2010 , 48, 548-556	10.4	43
50	Pyrolysis of petroleum residues: I. Yields and product analyses. <i>Carbon</i> , 1999 , 37, 1567-1582	10.4	42
49	Very high methane uptake on activated carbons prepared from mesophase pitch: A compromise between microporosity and bulk density. <i>Carbon</i> , 2015 , 93, 11-21	10.4	41

48	Pyrolysis of petroleum residues: analysis of semicokes by X-ray diffraction. <i>Carbon</i> , 1999 , 37, 1627-1632	10.4	34
47	Hydrogen adsorption on KOH activated carbons from mesophase pitch containing Si, B, Ti or Fe. <i>Carbon</i> , 2010 , 48, 636-644	10.4	33
46	CO ₂ activation of olive stones carbonized under pressure. <i>Carbon</i> , 2001 , 39, 320-323	10.4	30
45	Non-porous reference carbon for N ₂ (77.4 K) and Ar (87.3 K) adsorption. <i>Carbon</i> , 2014 , 66, 699-704	10.4	29
44	Selective Hydrogenation of Cinnamaldehyde over (111) Preferentially Oriented Pt Particles Supported on Expanded Graphite. <i>Catalysis Letters</i> , 2009 , 133, 267-272	2.8	29
43	The role of carbon biotemplate density in mechanical properties of biomorphic SiC. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 465-472	6	29
42	Novel synthesis of a micro-mesoporous nitrogen-doped nanostructured carbon from polyaniline. <i>Microporous and Mesoporous Materials</i> , 2015 , 218, 199-205	5.3	27
41	Manufacture of Biomorphic SiC Components with Homogeneous Properties from Sawdust by Reactive Infiltration with Liquid Silicon. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1003-1009	3.8	25
40	A continuous site energy distribution function from Redlich-Peterson isotherm for adsorption on heterogeneous surfaces. <i>Chemical Physics Letters</i> , 2010 , 492, 187-192	2.5	25
39	Influence of pressure variations on the formation and development of mesophase in a petroleum residue. <i>Carbon</i> , 1999 , 37, 445-455	10.4	24
38	Methane hydrate formation in the confined nanospace of activated carbons in seawater environment. <i>Microporous and Mesoporous Materials</i> , 2018 , 255, 220-225	5.3	23
37	Influence of the oxygen-containing surface functional groups in the methane hydrate nucleation and growth in nanoporous carbon. <i>Carbon</i> , 2017 , 123, 299-301	10.4	23
36	Pyrolysis of petroleum residues: III. Kinetics of pyrolysis. <i>Carbon</i> , 2001 , 39, 61-71	10.4	19
35	Heat of adsorption and binding affinity for hydrogen on pitch-based activated carbons. <i>Chemical Engineering Journal</i> , 2011 , 168, 972-978	14.7	18
34	Preparation of mesophase pitch doped with TiO ₂ or TiC particles. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007 , 80, 477-484	6	18
33	Freezing/melting of water in the confined nanospace of carbon materials: Effect of an external stimulus. <i>Carbon</i> , 2020 , 158, 346-355	10.4	18
32	KOH activation of carbon materials obtained from the pyrolysis of ethylene tar at different temperatures. <i>Fuel Processing Technology</i> , 2013 , 106, 402-407	7.2	17
31	Improved mechanical stability of HKUST-1 in confined nanospace. <i>Chemical Communications</i> , 2015 , 51, 14191-4	5.8	16

30	Self-sintering of carbon mesophase powders: effect of extraction/washing with solvents. <i>Carbon</i> , 1999 , 37, 1662-1665	10.4	16
29	High-Performance of Gas Hydrates in Confined Nanospace for Reversible CH ₄ /CO ₂ Storage. <i>Chemistry - A European Journal</i> , 2016 , 22, 10028-35	4.8	15
28	CO ₂ adsorption on crystalline graphitic nanostructures. <i>Journal of CO₂ Utilization</i> , 2014 , 5, 60-65	7.6	14
27	Effect of additives in the nucleation and growth of methane hydrates confined in a high-surface area activated carbon material. <i>Chemical Engineering Journal</i> , 2020 , 388, 124224	14.7	13
26	Neural network and principal component analysis for modeling of hydrogen adsorption isotherms on KOH activated pitch-based carbons containing different heteroatoms. <i>Chemical Engineering Journal</i> , 2010 , 159, 272-279	14.7	13
25	HKUST-1@ACM hybrids for adsorption applications: A systematic study of the synthesis conditions. <i>Microporous and Mesoporous Materials</i> , 2017 , 237, 74-81	5.3	12
24	Co-pyrolysis of an aromatic petroleum residue with triphenylsilane. <i>Carbon</i> , 2001 , 39, 1001-1011	10.4	11
23	A Continuous Binding Site Affinity Distribution Function from the Freundlich Isotherm for the Supercritical Adsorption of Hydrogen on Activated Carbon. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13759-13765	3.8	10
22	Modification of the sintering behaviour of mesophase powder from a petroleum residue. <i>Carbon</i> , 2002 , 40, 2843-2853	10.4	10
21	Structural Flexibility in Activated Carbon Materials Prepared under Harsh Activation Conditions. <i>Materials</i> , 2019 , 12,	3.5	8
20	Reverse Hierarchy of Alkane Adsorption in Metal-Organic Frameworks (MOFs) Revealed by Immersion Calorimetry. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11699-11706	3.8	8
19	Well-defined meso/macroporous materials as a host structure for methane hydrate formation: Organic versus carbon xerogels. <i>Chemical Engineering Journal</i> , 2020 , 402, 126276	14.7	8
18	Diffusion-barrier-free porous carbon monoliths as a new form of activated carbon. <i>ChemSusChem</i> , 2012 , 5, 2271-7	8.3	7
17	Production of nanoTiC/graphite composites using Ti-doped self-sintering carbon mesophase powder. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 583-591	6	6
16	Manufacturing and high heat-flux testing of brazed actively cooled mock-ups with Ti-doped graphite and CFC as plasma-facing materials. <i>Physica Scripta</i> , 2009 , T138, 014062	2.6	5
15	Adsorption on heterogeneous surfaces: site energy distribution functions from Fritz-Schländer isotherms. <i>ChemPhysChem</i> , 2010 , 11, 2555-60	3.2	5
14	Production of High-Strength Carbon Artifacts from Petroleum Residues: Influence of the Solvent Used to Prepare Mesophase Powder. <i>Energy & Fuels</i> , 2002 , 16, 1087-1094	4.1	5
13	Preparation of Porous Carbons from Petroleum Pitch and Polyaniline by Thermal Treatment for Methane Storage. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5775-5785	3.9	4

12	Chemistry of the co-pyrolysis of an aromatic petroleum residue with a pyridineBorane complex. <i>Carbon</i> , 2003 , 41, 549-561	10.4	4
11	Effect of boron carbide particle addition on the thermomechanical behavior of carbon matrix silicon carbide particle composites. <i>Carbon</i> , 2003 , 41, 1096-1099	10.4	4
10	Micromesoporous Activated Carbons as Catalysts for the Efficient Oxidation of Aqueous Sulfide. <i>Langmuir</i> , 2017 , 33, 11857-11861	4	3
9	Preparation of high metal content nanoporous carbon. <i>Fuel Processing Technology</i> , 2013 , 115, 115-121	7.2	3
8	Sinterability enhancement in semicokes obtained by controlled pyrolysis of a petroleum residue. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008 , 82, 163-169	6	3
7	Preparation of graphite/nano-SiC composites by co-pyrolysis of a petroleum residue with phenylsilanes. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008 , 83, 137-144	6	3
6	Compilation of erosion yields of metal-doped carbon materials by deuterium impact from ion beam and low temperature plasma. <i>Journal of Nuclear Materials</i> , 2011 , 417, 612-615	3.3	2
5	A new parameter relating the properties of semicokes and the resulting sintered carbons. <i>Carbon</i> , 1995 , 33, 1182-1184	10.4	2
4	Porosity determination in doped graphites using small-angle neutron scattering measurements. <i>Journal of Physics: Conference Series</i> , 2012 , 340, 012102	0.3	1
3	CO2 Adsorption in Activated Carbon Materials. <i>Engineering Materials</i> , 2021 , 139-152	0.4	1
2	The scientific impact of Francisco Rodríguez-Reinoso in carbon research and beyond. <i>Carbon</i> , 2021 , 179, 275-287	10.4	0
1	Activated carbon materials with a rich surface chemistry prepared from L-cysteine amino acid. <i>Fluid Phase Equilibria</i> , 2022 , 558, 113446	2.5	0