M MartÃ-nez-Escandell

List of Publications by Year
in descending order

66 papers	2,762 citations	172457 29 h-index	175258 52 g-index
66 all docs	66 docs citations	66 times ranked	3164 citing authors

#	Article	IF	Citations
1	Activated carbon materials with a rich surface chemistry prepared from L-cysteine amino acid. Fluid Phase Equilibria, 2022, 558, 113446.	2.5	3
2	Carbon-based monoliths with improved thermal and mechanical properties for methane storage. Fuel, 2022, 324, 124753.	6.4	2
3	The scientific impact of Francisco RodrÃguez-Reinoso in carbon research and beyond. Carbon, 2021, 179, 275-287.	10.3	2
4	CO2 Adsorption in Activated Carbon Materials. Engineering Materials, 2021, , 139-152.	0.6	1
5	Freezing/melting of water in the confined nanospace of carbon materials: Effect of an external stimulus. Carbon, 2020, 158, 346-355.	10.3	29
6	Well-defined meso/macroporous materials as a host structure for methane hydrate formation: Organic versus carbon xerogels. Chemical Engineering Journal, 2020, 402, 126276.	12.7	19
7	Preparation of Porous Carbons from Petroleum Pitch and Polyaniline by Thermal Treatment for Methane Storage. Industrial & Engineering Chemistry Research, 2020, 59, 5775-5785.	3.7	8
8	Effect of additives in the nucleation and growth of methane hydrates confined in a high-surface area activated carbon material. Chemical Engineering Journal, 2020, 388, 124224.	12.7	22
9	Structural Flexibility in Activated Carbon Materials Prepared under Harsh Activation Conditions. Materials, 2019, 12, 1988.	2.9	15
10	Reverse Hierarchy of Alkane Adsorption in Metalâ€“Organic Frameworks (MOFs) Revealed by Immersion Calorimetry. Journal of Physical Chemistry C, 2019, 123, 11699-11706.	3.1	12
11	Methane hydrate formation in the confined nanospace of activated carbons in seawater environment. Microporous and Mesoporous Materials, 2018, 255, 220-225.	4.4	37
12	Micromesoporous Activated Carbons as Catalysts for the Efficient Oxidation of Aqueous Sulfide. Langmuir, 2017, 33, 11857-11861.	3.5	4
13	Influence of the oxygen-containing surface functional groups in the methane hydrate nucleation and growth in nanoporous carbon. Carbon, 2017, 123, 299-301.	10.3	34
14	HKUST-1@ACM hybrids for adsorption applications: A systematic study of the synthesis conditions. Microporous and Mesoporous Materials, 2017, 237, 74-81.	4.4	15
15	Highâ€Performance of Gas Hydrates in Confined Nanospace for Reversible CH₄/CO₂ Storage. Chemistry - A European Journal, 2016, 22, 10028-10035.	3.3	19
16	Paving the way for methane hydrate formation on metalâ€“organic frameworks (MOFs). Chemical Science, 2016, 7, 3658-3666.	7.4	103
17	Very high methane uptake on activated carbons prepared from mesophase pitch: A compromise between microporosity and bulk density. Carbon, 2015, 93, 11-21.	10.3	52
18	High-Pressure Methane Storage in Porous Materials: Are Carbon Materials in the Pole Position?. Chemistry of Materials, 2015, 27, 959-964.	6.7	178

#	Article	IF	Citations
19	Methane hydrate formation in confined nanospace can surpass nature. Nature Communications, 2015, 6, 6432.	12.8	187
20	Novel synthesis of a micro-mesoporous nitrogen-doped nanostructured carbon from polyaniline. Microporous and Mesoporous Materials, 2015, 218, 199-205.	4.4	30
21	Improved mechanical stability of HKUST-1 in confined nanospace. Chemical Communications, 2015, 51, 14191-14194.	4.1	19
22	Non-porous reference carbon for N2 (77.4 K) and Ar (87.3 K) adsorption. Carbon, 2014, 66, 699-704.	10.3	33
23	CO2 adsorption on crystalline graphitic nanostructures. Journal of CO2 Utilization, 2014, 5, 60-65.	6.8	17
24	Effect of the porous structure in carbon materials for CO2 capture at atmospheric and high-pressure. Carbon, 2014, 67, 230-235.	10.3	187
25	Micro/Mesoporous Activated Carbons Derived from Polyaniline: Promising Candidates for CO₂ Adsorption. Industrial & Engineering Chemistry Research, 2014, 53, 15398-15405.	3.7	66
26	Preparation of high metal content nanoporous carbon. Fuel Processing Technology, 2013, 115, 115-121.	7.2	5
27	KOH activation of carbon materials obtained from the pyrolysis of ethylene tar at different temperatures. Fuel Processing Technology, 2013, 106, 402-407.	7.2	22
28	Production of nanoTiCâ€“graphite composites using Ti-doped self-sintering carbon mesophase powder. Journal of the European Ceramic Society, 2013, 33, 583-591.	5.7	6
29	Porosity determination in doped graphites using small-angle neutron scattering measurements. Journal of Physics: Conference Series, 2012, 340, 012102.	0.4	1
30	Diffusionâ€Barrierâ€Free Porous Carbon Monoliths as a New Form of Activated Carbon. ChemSusChem, 2012, 5, 2271-2277.	6.8	8
31	Ultrahigh CO2 adsorption capacity on carbon molecular sieves at room temperature. Chemical Communications, 2011, 47, 6840.	4.1	166
32	Compilation of erosion yields of metal-doped carbon materials by deuterium impact from ion beam and low temperature plasma. Journal of Nuclear Materials, 2011, 417, 612-615.	2.7	2
33	A site energy distribution function from Toth isotherm for adsorption of gases on heterogeneous surfaces. Physical Chemistry Chemical Physics, 2011, 13, 5753.	2.8	55
34	Heat of adsorption and binding affinity for hydrogen on pitch-based activated carbons. Chemical Engineering Journal, 2011, 168, 972-978.	12.7	21
35	A continuous site energy distribution function from Redlichâ€“Peterson isotherm for adsorption on heterogeneous surfaces. Chemical Physics Letters, 2010, 492, 187-192.	2.6	38
36	Adsorption on Heterogeneous Surfaces: Site Energy Distribution Functions from Fritzâ€“SchlÃ¼ender Isotherms. ChemPhysChem, 2010, 11, 2555-2560.	2.1	6

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37	Highâ€Surfaceâ€Area Carbon Molecular Sieves for Selective CO₂ Adsorption. ChemSusChem, 2010, 3, 974-981.	6.8	316
38	Neural network and principal component analysis for modeling of hydrogen adsorption isotherms on KOH activated pitch-based carbons containing different heteroatoms. Chemical Engineering Journal, 2010, 159, 272-279.	12.7	16
39	High saturation capacity of activated carbons prepared from mesophase pitch in the removal of volatile organic compounds. Carbon, 2010, 48, 548-556.	10.3	53
40	Hydrogen adsorption on KOH activated carbons from mesophase pitch containing Si, B, Ti or Fe. Carbon, 2010, 48, 636-644.	10.3	41
41	Manufacture of Biomorphic SiC Components with Homogeneous Properties from Sawdust by Reactive Infiltration with Liquid Silicon. Journal of the American Ceramic Society, 2010, 93, 1003-1009.	3.8	32
42	A Continuous Binding Site Affinity Distribution Function from the Freundlich Isotherm for the Supercritical Adsorption of Hydrogen on Activated Carbon. Journal of Physical Chemistry C, 2010, 114, 13759-13765.	3.1	15
43	Selective Hydrogenation of Cinnamaldehyde over (111) Preferentially Oriented Pt Particles Supported on Expanded Graphite. Catalysis Letters, 2009, 133, 267-272.	2.6	30
44	The role of carbon biotemplate density in mechanical properties of biomorphic SiC. Journal of the European Ceramic Society, 2009, 29, 465-472.	5.7	33
45	An activated carbon monolith as an electrode material for supercapacitors. Carbon, 2009, 47, 195-200.	10.3	158
46	The combined effect of porosity and reactivity of the carbon preforms on the properties of SiC produced by reactive infiltration with liquid Si. Carbon, 2009, 47, 2200-2210.	10.3	58
47	Manufacturing and high heat-flux testing of brazed actively cooled mock-ups with Ti-doped graphite and CFC as plasma-facing materials. Physica Scripta, 2009, T138, 014062.	2.5	5
48	Sinterability enhancement in semicokes obtained by controlled pyrolysis of a petroleum residue. Journal of Analytical and Applied Pyrolysis, 2008, 82, 163-169.	5.5	3
49	Preparation of graphite/nano-SiC composites by co-pyrolysis of a petroleum residue with phenylsilanes. Journal of Analytical and Applied Pyrolysis, 2008, 83, 137-144.	5.5	4
50	Production of binderless activated carbon monoliths by KOH activation of carbon mesophase materials. Carbon, 2008, 46, 384-386.	10.3	55
51	Preparation of mesophase pitch doped with TiO2 or TiC particles. Journal of Analytical and Applied Pyrolysis, 2007, 80, 477-484.	5.5	22
52	Carbon foam prepared by pyrolysis of olive stones under steam. Carbon, 2006, 44, 1448-1454.	10.3	82
53	Chemistry of the co-pyrolysis of an aromatic petroleum residue with a pyridineâ€"borane complex. Carbon, 2003, 41, 549-561.	10.3	4
54	Effect of boron carbide particle addition on the thermomechanical behavior of carbon matrix silicon carbide particle composites. Carbon, 2003, 41, 1096-1099.	10.3	4

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55	Production of High-Strength Carbon Artifacts from Petroleum Residues:â€‰ Influence of the Solvent Used to Prepare Mesophase Powder. Energy & Fuels, 2002, 16, 1087-1094.	5.1	6
56	Modification of the sintering behaviour of mesophase powder from a petroleum residue. Carbon, 2002, 40, 2843-2853.	10.3	10
57	Pyrolysis of petroleum residues. Carbon, 2001, 39, 61-71.	10.3	20
58	Co-pyrolysis of an aromatic petroleum residue with triphenylsilane. Carbon, 2001, 39, 1001-1011.	10.3	12
59	CO2 activation of olive stones carbonized under pressure. Carbon, 2001, 39, 320-323.	10.3	33
60	Pyrolysis of petroleum residues. Carbon, 2000, 38, 535-546.	10.3	76
61	Semicokes from pitch pyrolysis: mechanisms and kinetics. Carbon, 1999, 37, 363-390.	10.3	114
62	Influence of pressure variations on the formation and development of mesophase in a petroleum residue. Carbon, 1999, 37, 445-455.	10.3	26
63	Pyrolysis of petroleum residues: I. Yields and product analyses. Carbon, 1999, 37, 1567-1582.	10.3	46
64	Pyrolysis of petroleum residues: analysis of semicokes by X-ray diffraction. Carbon, 1999, 37, 1627-1632.	10.3	38
65	Self-sintering of carbon mesophase powders: effect of extraction/washing with solvents. Carbon, 1999, 37, 1662-1665.	10.3	24
66	A new parameter relating the properties of semicokes and the resulting sintered carbons. Carbon, 1995, 33, 1182-1184.	10.3	2