

Juan Alcaiz-Monge

List of Publications by Citations

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58

papers

2,813

citations

25

h-index

53

g-index

59

ext. papers

2,998

ext. citations

6.5

avg, IF

4.77

L-index

#	Paper	IF	Citations
58	Characterization of Activated Carbon Fibers by CO ₂ Adsorption. <i>Langmuir</i> , 1996 , 12, 2820-2824	4	345
57	CO ₂ as an Adsorbent To Characterize Carbon Molecular Sieves and Activated Carbons. <i>Langmuir</i> , 1998 , 14, 4589-4596	4	333
56	Advances in the study of methane storage in porous carbonaceous materials. <i>Fuel</i> , 2002 , 81, 1777-1803	7.1	330
55	Formation of mesopores in phenolic resin-derived carbon fiber by catalytic activation using cobalt. <i>Carbon</i> , 1995 , 33, 1085-1090	10.4	156
54	Methane storage in activated carbon fibres. <i>Carbon</i> , 1997 , 35, 291-297	10.4	131
53	Effect of the activating gas on tensile strength and pore structure of pitch-based carbon fibres. <i>Carbon</i> , 1994 , 32, 1277-1283	10.4	119
52	Theoretical and experimental studies of methane adsorption on microporous carbons. <i>Carbon</i> , 1997 , 35, 1251-1258	10.4	99
51	Characterisation of coal tar pitches by thermal analysis, infrared spectroscopy and solvent fractionation. <i>Fuel</i> , 2001 , 80, 41-48	7.1	91
50	Zirconia-supported tungstophosphoric heteropolyacid as heterogeneous acid catalyst for biodiesel production. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 194-203	21.8	84
49	Preparation of general purpose carbon fibers from coal tar pitches with low softening point. <i>Carbon</i> , 1997 , 35, 1079-1087	10.4	78
48	Mechanism of Adsorption of Water in Carbon Micropores As Revealed by a Study of Activated Carbon Fibers. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3209-3216	3.4	73
47	Fundamentals of methane adsorption in microporous carbons. <i>Microporous and Mesoporous Materials</i> , 2009 , 124, 110-116	5.3	70
46	Preparation and properties of an antibacterial activated carbon fiber containing mesopores. <i>Carbon</i> , 1996 , 34, 53-57	10.4	66
45	Water Adsorption on Activated Carbons: Study of Water Adsorption in Micro- and Mesopores. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7998-8006	3.4	60
44	Further Advances in the Characterization of Microporous Carbons by Physical Adsorption of Gases. <i>Tanso</i> , 1998 , 1998, 316-325	0.1	57
43	Molecular sieve properties of general-purpose carbon fibres. <i>Carbon</i> , 1998 , 36, 1353-1360	10.4	42
42	Influence of microporosity of activated carbons as a support of polyoxometalates. <i>Microporous and Mesoporous Materials</i> , 2008 , 115, 440-446	5.3	42

41	Adsorption properties of carbon molecular sieves prepared from an activated carbon by pitch pyrolysis. <i>Carbon</i> , 2005 , 43, 1643-1651	10.4	42
40	Biodiesel production by acid catalysis with heteropolyacids supported on activated carbon fibers. <i>Applied Catalysis A: General</i> , 2013 , 468, 432-441	5.1	41
39	A Robust Open Framework Formed by Decavanadate Clusters and Copper(II) Complexes of Macrocyclic Polyamines: Permanent Microporosity and Catalytic Oxidation of Cycloalkanes. <i>Inorganic Chemistry</i> , 2016 , 55, 4970-9	5.1	37
38	Effects of compression on the textural properties of porous solids. <i>Microporous and Mesoporous Materials</i> , 2009 , 126, 291-301	5.3	36
37	Isotropic petroleum pitch as a carbon precursor for the preparation of activated carbons by KOH activation. <i>Carbon</i> , 2009 , 47, 2141-2142	10.4	35
36	CO2 separation by carbon molecular sieve monoliths prepared from nitrated coal tar pitch. <i>Fuel Processing Technology</i> , 2011 , 92, 915-919	7.2	33
35	Insight into hydroxides-activated coals: chemical or physical activation?. <i>Journal of Colloid and Interface Science</i> , 2008 , 318, 35-41	9.3	32
34	Preparation of binderless activated carbon monoliths from cocoa bean husk. <i>Microporous and Mesoporous Materials</i> , 2017 , 243, 28-38	5.3	29
33	Production of activated carbons: use of CO2 versus H2O as activating agent. A reply to a letter from P. L. Walker Jr.. <i>Carbon</i> , 1997 , 35, 1665-1668	10.4	23
32	Characterization of activated carbon fibers by small angle x-ray scattering. <i>Carbon</i> , 1998 , 36, 309-312	10.4	21
31	NO adsorption on activated carbon fibers from iron-containing pitch. <i>Microporous and Mesoporous Materials</i> , 2008 , 108, 294-302	5.3	21
30	Influence of peroxometallic intermediaries present on polyoxometalates nanoparticles surface on the adipic acid synthesis. <i>Journal of Molecular Catalysis A</i> , 2014 , 394, 211-216		20
29	Development of new carbon honeycomb structures from cellulose and pitch. <i>Carbon</i> , 2002 , 40, 541-550	10.4	20
28	Stabilisation of low softening point petroleum pitch fibres by HNO3. <i>Carbon</i> , 2003 , 41, 1001-1007	10.4	19
27	Monolithic Carbon Molecular Sieves from activated bituminous coal impregnated with a slurry of coal tar pitch. <i>Fuel Processing Technology</i> , 2012 , 95, 67-72	7.2	17
26	Influence of pore size distribution on water adsorption on silica gels. <i>Journal of Porous Materials</i> , 2010 , 17, 409-416	2.4	17
25	Carbon/ceramic composites from coal tar pitch and clays: application as electrocatalyst support. <i>Carbon</i> , 2002 , 40, 2193-2200	10.4	17
24	Comparative study of the micropore development on physical activation of carbon fibers from coal tar and petroleum pitches. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 125-132	5.3	16

23	Upper limit of hydrogen adsorption on activated carbons at room temperature: A thermodynamic approach to understand the hydrogen adsorption on microporous carbons. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 510-520	5.3	16
22	Dimeric assemblies of lanthanide-stabilised dilacunary Keggin tungstogermanates: A new class of catalysts for the selective oxidation of aniline. <i>Journal of Catalysis</i> , 2015 , 331, 110-117	7.3	15
21	Activated carbon fibre monoliths. <i>Fuel Processing Technology</i> , 2002 , 77-78, 445-451	7.2	15
20	The influence of iron chloride addition to the precursor pitch on the formation of activated carbon fibers. <i>Microporous and Mesoporous Materials</i> , 2007 , 100, 202-209	5.3	12
19	Effect of the stabilisation time of pitch fibres on the molecular sieve properties of carbon fibres. <i>Microporous and Mesoporous Materials</i> , 2008 , 109, 21-27	5.3	12
18	New insights on the direct activation of isotropic petroleum pitch by alkaline hydroxides. <i>Fuel Processing Technology</i> , 2010 , 91, 145-149	7.2	10
17	Removal of Harmful Volatile Organic Compounds on Activated Carbon Fibres Prepared by Steam or Carbon Dioxide Activation. <i>Adsorption Science and Technology</i> , 2012 , 30, 473-482	3.6	9
16	Effect of counteranion of ammonium salts on the synthesis of porous nanoparticles (NH ₄) ₃ [PMo ₁₂ O ₄₀]. <i>Solid State Sciences</i> , 2011 , 13, 30-37	3.4	9
15	Effect of the Pre-oxidation of Coals in the Preparation of Chemically Activated Carbon Pellets. <i>Energy & Fuels</i> , 2010 , 24, 3385-3393	4.1	9
14	Development of tailored mesoporosity in carbonised cocoa bean husk. <i>Microporous and Mesoporous Materials</i> , 2018 , 256, 128-139	5.3	8
13	Stabilisation of low softening point petroleum pitch fibres by iodine treatment. <i>Fuel Processing Technology</i> , 2007 , 88, 265-272	7.2	8
12	Assessment of Ultramicroporosity on Carbon Molecular Sieves by Water Adsorption. <i>Adsorption Science and Technology</i> , 2003 , 21, 841-848	3.6	8
11	Superactivated carbons by CO ₂ activation of loquat stones. <i>Fuel Processing Technology</i> , 2017 , 159, 345-352	7.2	7
10	Modification of activated carbon porosity by pyrolysis under pressure of organic compounds. <i>Adsorption</i> , 2008 , 14, 93-100	2.6	6
9	Unusual pre-oxidized polyacrylonitrile fibres behaviour against their activation with CO ₂ : carbonization effect. <i>Adsorption</i> , 2016 , 22, 223-231	2.6	5
8	Fundamentals of vapors adsorption onto activated carbon fibers assessed by the comparative analysis of N ₂ and CO ₂ adsorption. <i>Separation and Purification Technology</i> , 2012 , 85, 83-89	8.3	5
7	Characterisation of conductive CVD carbon/glass fibres. <i>Carbon</i> , 2004 , 42, 2349-2351	10.4	4
6	A Simple Approach To Develop Tailored Mesoporosity in Nanostructured Heteropolysalts. <i>Chemistry - A European Journal</i> , 2017 , 23, 2387-2395	4.8	1

5	Theoretical calculation of high micropore volumes on activated carbons. <i>Studies in Surface Science and Catalysis</i> , 2002 , 144, 193-200	1.8	1
4	Zirconia-supported 11-molybdovanadophosphoric acid catalysts: effect of the preparation method on their catalytic activity and selectivity. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 1334-1347	0.8	1
3	Gas-Adsorbing Nanoporous Carbons 2016 , 465-486		
2	Assessment of ultramicroporosity on carbon molecular sieves by water adsorption. <i>Studies in Surface Science and Catalysis</i> , 2002 , 144, 201-208	1.8	
1	Water adsorption on micro and mesoporous silicas. <i>Studies in Surface Science and Catalysis</i> , 2002 , 144, 291-298	1.8	