Jose B Parra

List of Publications by Citations

117 papers	5,830 citations	43 h-index	74 g-index
118 ext. papers	6,227 ext. citations	6.8 avg, IF	5.46 L-index

#	Paper	IF	Citations
117	The Large Electrochemical Capacitance of Microporous Doped Carbon Obtained by Using a Zeolite Template. *Advanced Functional Materials*, **2007**, 17, 1828-1836	15.6	462
116	Assessment of the role of micropore size and N-doping in CO2 capture by porous carbons. *ACS Applied Materials & Interfaces*, **2013**, 5, 6360-8	9.5	265
115	Effect of microwave and conventional regeneration on the microporous and mesoporous network and on the adsorptive capacity of activated carbons. *Microporous and Mesoporous Materials*, **2005**, 85, 7-15	5.3	204
114	Waste-derived activated carbons for removal of ibuprofen from solution: role of surface chemistry and pore structure. *Bioresource Technology*, **2009**, 100, 1720-6	11	179
113	Deep eutectic solvents as both precursors and structure directing agents in the synthesis of nitrogen doped hierarchical carbons highly suitable for CO2 capture. *Energy and Environmental Science*, **2011**, 4, 3535	35.4	165
112	Transferable Force Field for Carbon Dioxide Adsorption in Zeolites. *Journal of Physical Chemistry C*, **2009**, 113, 8814-8820	3.8	160
111	Microwave-induced regeneration of activated carbons polluted with phenol. A comparison with conventional thermal regeneration. *Carbon*, **2004**, 42, 1383-1387	10.4	147
110	A computational study of CO2, N2, and CH4 adsorption in zeolites. *Adsorption*, **2007**, 13, 469-476	2.6	145
109	H2, N2, CO, and CO2 sorption properties of a series of robust sodalite-type microporous coordination polymers. *Inorganic Chemistry*, **2006**, 45, 2397-9	5.1	144
108	Guest-induced modification of a magnetically active ultramicroporous, gismondine-like, copper(II) coordination network. *Journal of the American Chemical Society*, **2008**, 130, 3978-84	16.4	140
107	Hydrogen adsorption studies on single wall carbon nanotubes. *Carbon*, **2004**, 42, 1243-1248	10.4	140
106	Understanding Gas-Induced Structural Deformation of ZIF-8. *Journal of Physical Chemistry Letters*, **2012**, 3, 1159-64	6.4	117
105	Role of activated carbon features on the photocatalytic degradation of phenol. *Applied Surface Science*, **2010**, 256, 5254-5258	6.7	110
104	Porosity, Surface Area, Surface Energy, and Hydrogen Adsorption in Nanostructured Carbons. *Journal of Physical Chemistry B*, **2004**, 108, 15820-15826	3.4	107
103	N-doped monolithic carbon aerogel electrodes with optimized features for the electrosorption of ions. *Carbon*, **2015**, 83, 262-274	10.4	103
102	Biomass waste-derived activated carbon for the removal of arsenic and manganese ions from aqueous solutions. *Applied Surface Science*, **2009**, 255, 4650-4657	6.7	102
101	Microwave-assisted regeneration of activated carbons loaded with pharmaceuticals. *Water Research*, **2007**, 41, 3299-306	12.5	99

100	Dual gas analysis of microporous carbons using 2D-NLDFT heterogeneous surface model and combined adsorption data of N2 and CO2. *Carbon*, **2015**, 91, 330-337	10.4	95
99	Surface modification of low cost carbons for their application in the environmental protection. *Applied Surface Science*, **2005**, 252, 619-624	6.7	95
98	Photochemical behaviour of activated carbons under UV irradiation. *Carbon*, **2012**, 50, 249-258	10.4	84
97	Micro-, Mesoporous Boron Nitride-Based Materials Templated from Zeolites. *Chemistry of Materials* , **2012**, 24, 88-96	9.6	83
96	Removal of Arsenic(III) from Aqueous Solution by Activated Carbons Prepared from Solvent Extracted Olive Pulp and Olive Stones. *Industrial & Engineering Chemistry Research*, **2006**, 45, 1896-1901	3.8	82
95	Extension of preparation methods employed with ceramic materials to carbon honeycomb monoliths. *Carbon*, **2004**, 42, 3251-3254	10.4	79
94	Sol□gel method for preparing high surface area CoAl2O4 and Al2O3□CoAl2O4 spinels. *Materials Letters*, **1999**, 39, 22-27	3.3	79
93	Adsorption of naphthalene from aqueous solution on activated carbons obtained from bean pods. *Journal of Hazardous Materials*, **2009**, 161, 1150-6	12.8	78
92	Surface heterogeneity effects of activated carbons on the kinetics of paracetamol removal from aqueous solution. *Applied Surface Science*, **2010**, 256, 5171-5175	6.7	78
91	Influence of oxygen-containing functional groups on active carbon adsorption of selected organic compounds. *Fuel Processing Technology*, **2002**, 79, 265-271	7.2	78
90	Removal of naphthalene from aqueous solution on chemically modified activated carbons. *Water Research*, **2007**, 41, 333-40	12.5	69
89	Deep eutectic assisted synthesis of carbon adsorbents highly suitable for low-pressure separation of CO2□CH4 gas mixtures. *Energy and Environmental Science*, **2012**, 5, 8699	35.4	67
88	High surface area nickel aluminate spinels prepared by a sol□gel method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 180, 253-258	5.1	67
87	Influence of pyrolysis temperature on char optical texture and reactivity. *Journal of Analytical and Applied Pyrolysis*, **2001**, 58-59, 887-909	6	65
86	Zeolite screening for the separation of gas mixtures containing SO2, CO2 and CO. *Physical Chemistry Chemical Physics*, **2014**, 16, 19884-93	3.6	61
85	Characterization of Activated Carbons by the BET Equation □An Alternative Approach. *Adsorption Science and Technology*, **1995**, 12, 51-66	3.6	57
84	Textural development and hydrogen adsorption of carbon materials from PET waste. *Journal of Alloys and Compounds*, **2004**, 379, 280-289	5.7	56
83	Producing adsorbents from sewage sludge and discarded tyres: Characterization and utilization for the removal of pollutants from water. *Chemical Engineering Journal*, **2005**, 114, 161-169	14.7	55

82	Low temperature regeneration of activated carbons using microwaves: revising conventional wisdom. *Journal of Environmental Management*, **2012**, 102, 134-40	7.9	54
81	Kinetics of naphthalene adsorption on an activated carbon: comparison between aqueous and organic media. *Chemosphere*, **2009**, 76, 433-8	8.4	52
80	Effects of activated carbon properties on the adsorption of naphthalene from aqueous solutions. *Applied Surface Science*, **2007**, 253, 5741-5746	6.7	50
79	High value carbon materials from PET recycling. *Applied Surface Science*, **2004**, 238, 304-308	6.7	50
78	Unraveling the Argon Adsorption Processes in MFI-Type Zeolite. *Journal of Physical Chemistry C*, **2008**, 112, 9976-9979	3.8	47
77	Carbon foams as catalyst supports for phenol photodegradation. *Journal of Hazardous Materials*, **2010**, 184, 843-848	12.8	46
76	Borderline microporous–ultramicroporous palladium(II) coordination polymer networks. Effect of pore functionalisation on gas adsorption properties. *Journal of Materials Chemistry*, **2007**, 17, 1939-1946		45
75	Role of crystal size on swing-effect and adsorption induced structure transition of ZIF-8. *Dalton Transactions*, **2016**, 45, 6893-900	4.3	45
74	On the mechanism of reactive adsorption of dibenzothiophene on organic waste derived carbons. *Applied Surface Science*, **2007**, 253, 5899-5903	6.7	43
73	Effect of gasification on the porous characteristics of activated carbons from a semianthracite. *Carbon*, **1995**, 33, 801-807	10.4	43
72	Using DFT analysis of adsorption data of multiple gases including H2 for the comprehensive characterization of microporous carbons. *Carbon*, **2007**, 45, 1066-1071	10.4	42
71	Effect of coal preoxidation on the development of microporosity in activated carbons. *Carbon*, **1996**, 34, 783-787	10.4	40
70	Effect of texture and surface chemistry on adsorptive capacities of activated carbons for phenolic compounds removal. *Fuel Processing Technology*, **2002**, 77-78, 337-343	7.2	39
69	Insights on the Anomalous Adsorption of Carbon Dioxide in LTA Zeolites. *Journal of Physical Chemistry C*, **2014**, 118, 25460-25467	3.8	37
68	NMR and FTIR spectroscopic studies on the acidity of gallia–silica prepared by a sol–gel route. *Microporous and Mesoporous Materials*, **2004**, 67, 259-264	5.3	36
67	Porosity development during steam activation of carbon foams from chemically modified pitch. *Microporous and Mesoporous Materials*, **2012**, 154, 56-61	5.3	35
66	H2 storage in carbon materials. *Adsorption*, **2008**, 14, 557-566	2.6	35
65	Pyrolysis of activated carbons exhausted with organic compounds. *Journal of Analytical and Applied Pyrolysis*, **2005**, 74, 518-524	6	34

64	Thermodynamics of hydrogen adsorption on calcium-exchanged faujasite-type zeolites. *International Journal of Hydrogen Energy*, **2009**, 34, 4371-4378	6.7	31
63	Preparation of active carbons from coal: Part III: Activation of char. *Fuel Processing Technology*, **1998**, 57, 149-161	7.2	31
62	Importance of the Hydrophobic Character of Activated Carbons on the Removal of Naphthalene from the Aqueous Phase. *Adsorption Science and Technology*, **2007**, 25, 155-167	3.6	31
61	Preparation of active carbons from coal Part I. Oxidation of coal. *Fuel Processing Technology*, **1996**, 47, 119-138	7.2	30
60	Influence of coal oxidation on the structure of char. *Fuel*, **1994**, 73, 1358-1364	7.1	30
59	Relationship between Textural Properties, Fly Ash Carbons, and Hg Capture in Fly Ashes Derived from the Combustion of Anthracitic Pulverized Feed Blends. *Energy & Fuels*, **2007**, 21, 1915-1923	4.1	28
58	Oxygen-Induced Decrease in the Equilibrium Adsorptive Capacities of Activated Carbons. *Adsorption Science and Technology*, **2004**, 22, 337-351	3.6	28
57	A rapid microwave-assisted synthesis of a sodium-cadmium metal-organic framework having improved performance as a CO2 adsorbent for CCS. *Dalton Transactions*, **2015**, 44, 9955-63	4.3	27
56	Zeolite Force Fields and Experimental Siliceous Frameworks in a Comparative Infrared Study. *Journal of Physical Chemistry C*, **2012**, 116, 25797-25805	3.8	26
55	Naphthalene adsorption on activated carbons using solvents of different polarity. *Adsorption*, **2008**, 14, 343-355	2.6	26
54	Carbon black directed synthesis of ultrahigh mesoporous carbon aerogels. *Carbon*, **2013**, 63, 487-497	10.4	25
53	Synthesis of nanoporous carbons from mixtures of coal tar pitch and furfural and their application as electrode materials. *Fuel Processing Technology*, **2010**, 91, 1710-1716	7.2	25
52	Influence of char structure on reactivity and nitric oxide emissions. *Fuel Processing Technology*, **2002**, 77-78, 103-109	7.2	25
51	Exploiting the adsorption of simple gases O2 and H2 with minimal quadrupole moments for the dual gas characterization of nanoporous carbons using 2D-NLDFT models. *Carbon*, **2020**, 160, 164-175	10.4	23
50	Dual role of copper on the reactivity of activated carbons from coal and lignocellulosic precursors. *Microporous and Mesoporous Materials*, **2012**, 154, 68-73	5.3	22
49	Effect of amine and carboxyl functionalization of sub-micrometric MCM-41 spheres on controlled release of cisplatin. *Ceramics International*, **2013**, 39, 7407-7414	5.1	22
48	Insights on the Molecular Mechanisms of Hydrogen Adsorption in Zeolites. *Journal of Physical Chemistry C*, **2013**, 117, 14374-14380	3.8	22
47	Modification of coal-tar pitch by air-blowing II. Influence on coke structure and properties. *Carbon*, **1995**, 33, 1235-1245	10.4	21

46	Molecular Sieves for the Separation of Hydrogen Isotopes. *ACS Applied Materials & Interfaces*, **2019**, 11, 18833-18840	9.5	20
45	Metal Oxide Assisted Preparation of Core-Shell Beads with Dense Metal-Organic Framework Coatings for the Enhanced Extraction of Organic Pollutants. *Chemistry - A European Journal*, **2016**, 22, 11770-7	4.8	20
44	Toward a Transferable Set of Charges to Model Zeolitic Imidazolate Frameworks: Combined Experimental□Theoretical Research. *Journal of Physical Chemistry C*, **2013**, 117, 466-471	3.8	20
43	Effect of coal pre-oxidation on the optical texture and porosity of pyrolysis chars. *Journal of Analytical and Applied Pyrolysis*, **2006**, 75, 27-32	6	20
42	Relation between texture and reactivity in metallurgical cokes obtained from coal using petroleum coke as additive. *Fuel Processing Technology*, **2002**, 77-78, 199-205	7.2	20
41	Textural characterisation of activated carbons obtained from poly(ethylene terephthalate) by carbon dioxide activation. *Studies in Surface Science and Catalysis*, **2002**, 537-543	1.8	20
40	Reactivity of alpha-titanium phosphate/n-alkylamine intercalation compounds with mono- and polymeric aluminum species. *Materials Chemistry and Physics*, **1993**, 35, 250-256	4.4	20
39	Role of surface adsorption and porosity features in the molecular recognition ability of imprinted sol-gels. *Biosensors and Bioelectronics*, **2008**, 23, 1101-8	11.8	19
38	Effect of outgassing temperature on the performance of porous materials. *Applied Surface Science*, **2010**, 256, 5182-5186	6.7	18
37	Effects of oxidative treatments with air and CO2 on vapour grown carbon nanofibres (VGCNFs) produced at industrial scale. *Thermochimica Acta*, **2004**, 423, 99-106	2.9	18
36	Calorimetric Study of Amine Adsorption on □and □Titanium Phosphate. *Journal of Physical Chemistry B*, **1998**, 102, 1713-1716	3.4	18
35	Study of porous development in pyrolysis chars obtained from a low-volatile coal. *Journal of Analytical and Applied Pyrolysis*, **2001**, 58-59, 873-886	6	17
34	Phenol Adsorption and Photo-Oxidation on Porous Carbon/Titania Composites. *Adsorption Science and Technology*, **2010**, 28, 727-738	3.6	16
33	Structural Changes in Polyethylene Terephthalate (PET) Waste Materials Caused by Pyrolysis and CO2 Activation. *Adsorption Science and Technology*, **2006**, 24, 439-450	3.6	15
32	Effect of operation variables in the obtention of tailored active carbons from coals. *Fuel Processing Technology*, **1993**, 36, 333-339	7.2	15
31	Tailoring the textural properties of an activated carbon for enhancing its adsorption capacity towards diclofenac from aqueous solution. *Environmental Science and Pollution Research*, **2019**, 26, 6141-6152	5.1	15
30	Sulphur retention by limestone particles under PFBC conditions. *Fuel Processing Technology*, **1993**, 36, 65-71	7.2	14
29	Active carbons from semianthracites. *Applied Catalysis A: General*, **1993**, 98, 115-123	5.1	12

28	Fast synthesis of micro/mesoporous xerogels: Textural and energetic assessment. *Microporous and Mesoporous Materials*, **2015**, 209, 2-9	5.3	11
27	Characterization of the different fractions obtained from the pyrolysis of rope industry waste. *Journal of Analytical and Applied Pyrolysis*, **2012**, 95, 31-37	6	10
26	On the Adsorption Kinetics and Equilibrium of Polyaromatic Hydrocarbons from Aqueous Solution. *Adsorption Science and Technology*, **2011**, 29, 467-478	3.6	10
25	Design and development of a controlled pressure/temperature set-up for in situ studies of solid-gas processes and reactions in a synchrotron X-ray powder diffraction station. *Journal of Synchrotron Radiation*, **2015**, 22, 42-8	2.4	9
24	Improved phenol adsorption on carbons after mild temperature steam reactivation. *Journal of Hazardous Materials*, **2009**, 166, 1289-95	12.8	9
23	A comparison of characterization methods based on N2 and CO2 adsorption for the assessment of the pore size distribution of carbons. *Studies in Surface Science and Catalysis*, **2007**, 160, 319-326	1.8	9
22	Textural properties in density-separated coal fractions. *Fuel*, **1999**, 78, 1631-1637	7.1	9
21	Carbonization of wet and preheated coal. Effect on coke quality and its relation with textural properties. *Journal of Analytical and Applied Pyrolysis*, **1996**, 38, 119-130	6	9
20	Preparation of nodular carbon cryogel from simple and inexpensive polycondensation reaction of commercial modified black wattle tannin. *Journal of Sol-Gel Science and Technology*, **2013**, 67, 519-526	2.3	8
19	Crystal structure of the dicarbonyl cations cis- and trans-[Mn(CO)2(dppm-PP?)2]+ and their reactions with nucleophiles. *Journal of Organometallic Chemistry*, **1987**, 326, 201-216	2.3	7
18	Carbonyl complexes of manganese(I) with chelating phosphino-alkyl or -acyl ligands. Crystal and molecular structure of [Ph2n(CO)2(dppm)l. *Journal of Organometallic Chemistry*, **1985**, 297, 193-203	2.3	7
17	A comparison of ASA values determined by different methods. *Carbon*, **2002**, 40, 1381-1383	10.4	6
16	Layered mixed tin-titanium phosphates. *Journal of Materials Research*, **1998**, 13, 754-759	2.5	5
15	Influence of Coal Preoxidation and Reactive Gas Flow Rate on Textural Properties of Active Carbons. *Studies in Surface Science and Catalysis*, **1991**, 347-355	1.8	5
14	Relation between reactivity and textural properties in cokes from wet and preheated coals. *Solid State Ionics*, **1993**, 63-65, 772-776	3.3	5
13	Properties of some catalysts used for the decarbonylation of furfural. *Reaction Kinetics and Catalysis Letters*, **1982**, 20, 415-423		4
12	A fast methodology to rank adsorbents for CO2 capture with temperature swing adsorption. *Chemical Engineering Journal*, **2022**, 435, 134703	14.7	4
11	Alkoxy-derived high surface area perovskites: BaTiO3 and LaAlO3. *Journal of Materials Science Letters*, **2001**, 20, 819-821		3

10	Binding of molybdenum□iron□sulfur clusters by amino acid esters. *Journal of the Chemical Society Dalton Transactions*, **1993**, 543-548		3
9	Activated carbons from semianthracite by steam activation. Effect of coal preoxidation and burn-off. *Studies in Surface Science and Catalysis*, **1994**, 87, 603-612	1.8	3
8	The binding of a MoFe3S4 double-cubane cluster by cysteine ethyl esters. *Polyhedron*, **1989**, 8, 1865-1866	2.7	3
7	Carbon dioxide and nitrogen adsorption on porous copolymers of divinylbenzene and acrylic acid. *Adsorption*, **2013**, 19, 367-372	2.6	2
6	Influence of coal preoxidation on textural properties of chars. *Studies in Surface Science and Catalysis*, **1994**, 651-659	1.8	2
5	Assessment of porosity in materials formed by oligomeric aluminum hydroxides and □titanium phosphate intercalation compounds. *Studies in Surface Science and Catalysis*, **1994**, 87, 467-475	1.8	2
4	Modification of coke properties as a consequence of coal preheating. *Fuel Processing Technology*, **1993**, 36, 307-312	7.2	2
3	Activated Carbon from Bituminous Coal. *Studies in Surface Science and Catalysis*, **1991**, 63, 439-448	1.8	2
2	Active surface area of carbon materials determined by different methods. *Studies in Surface Science and Catalysis*, **2002**, 144, 209-216	1.8	1
1	Comparative study of binderless zeolites and carbon molecular sieves as adsorbents for CO2 capture processes. *Journal of CO2 Utilization*, **2022**, 61, 102012	7.6	0