

Jose B Parra

List of Publications by Year in Descending Order

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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.

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	A fast methodology to rank adsorbents for CO ₂ capture with temperature swing adsorption. <i>Chemical Engineering Journal</i> , 2022 , 435, 134703	14.7	4
116	Comparative study of binderless zeolites and carbon molecular sieves as adsorbents for CO ₂ capture processes. <i>Journal of CO₂ Utilization</i> , 2022 , 61, 102012	7.6	0
115	Exploiting the adsorption of simple gases O ₂ and H ₂ with minimal quadrupole moments for the dual gas characterization of nanoporous carbons using 2D-NLDFT models. <i>Carbon</i> , 2020 , 160, 164-175	10.4	23
114	Molecular Sieves for the Separation of Hydrogen Isotopes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18833-18840	9.5	20
113	Tailoring the textural properties of an activated carbon for enhancing its adsorption capacity towards diclofenac from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 6141-6152	5.1	15
112	Metal Oxide Assisted Preparation of Core-Shell Beads with Dense Metal-Organic Framework Coatings for the Enhanced Extraction of Organic Pollutants. <i>Chemistry - A European Journal</i> , 2016 , 22, 11770-7	4.8	20
111	Role of crystal size on swing-effect and adsorption induced structure transition of ZIF-8. <i>Dalton Transactions</i> , 2016 , 45, 6893-900	4.3	45
110	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. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 42-8	2.4	9
109	A rapid microwave-assisted synthesis of a sodium-cadmium metal-organic framework having improved performance as a CO ₂ adsorbent for CCS. <i>Dalton Transactions</i> , 2015 , 44, 9955-63	4.3	27
108	Fast synthesis of micro/mesoporous xerogels: Textural and energetic assessment. <i>Microporous and Mesoporous Materials</i> , 2015 , 209, 2-9	5.3	11
107	Dual gas analysis of microporous carbons using 2D-NLDFT heterogeneous surface model and combined adsorption data of N ₂ and CO ₂ . <i>Carbon</i> , 2015 , 91, 330-337	10.4	95
106	N-doped monolithic carbon aerogel electrodes with optimized features for the electrosorption of ions. <i>Carbon</i> , 2015 , 83, 262-274	10.4	103
105	Insights on the Anomalous Adsorption of Carbon Dioxide in LTA Zeolites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25460-25467	3.8	37
104	Zeolite screening for the separation of gas mixtures containing SO ₂ , CO ₂ and CO. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19884-93	3.6	61
103	Preparation of nodular carbon cryogel from simple and inexpensive polycondensation reaction of commercial modified black wattle tannin. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 67, 519-526	2.3	8
102	Carbon black directed synthesis of ultrahigh mesoporous carbon aerogels. <i>Carbon</i> , 2013 , 63, 487-497	10.4	25
101	Effect of amine and carboxyl functionalization of sub-micrometric MCM-41 spheres on controlled release of cisplatin. <i>Ceramics International</i> , 2013 , 39, 7407-7414	5.1	22

100	Toward a Transferable Set of Charges to Model Zeolitic Imidazolate Frameworks: Combined Experimental and Theoretical Research. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 466-471	3.8	20
99	Carbon dioxide and nitrogen adsorption on porous copolymers of divinylbenzene and acrylic acid. <i>Adsorption</i> , 2013 , 19, 367-372	2.6	2
98	Insights on the Molecular Mechanisms of Hydrogen Adsorption in Zeolites. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14374-14380	3.8	22
97	Assessment of the role of micropore size and N-doping in CO ₂ capture by porous carbons. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6360-8	9.5	265
96	Characterization of the different fractions obtained from the pyrolysis of rope industry waste. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 95, 31-37	6	10
95	Dual role of copper on the reactivity of activated carbons from coal and lignocellulosic precursors. <i>Microporous and Mesoporous Materials</i> , 2012 , 154, 68-73	5.3	22
94	Porosity development during steam activation of carbon foams from chemically modified pitch. <i>Microporous and Mesoporous Materials</i> , 2012 , 154, 56-61	5.3	35
93	Low temperature regeneration of activated carbons using microwaves: revising conventional wisdom. <i>Journal of Environmental Management</i> , 2012 , 102, 134-40	7.9	54
92	Deep eutectic assisted synthesis of carbon adsorbents highly suitable for low-pressure separation of CO ₂ /CH ₄ gas mixtures. <i>Energy and Environmental Science</i> , 2012 , 5, 8699	35.4	67
91	Micro-, Mesoporous Boron Nitride-Based Materials Templated from Zeolites. <i>Chemistry of Materials</i> , 2012 , 24, 88-96	9.6	83
90	Zeolite Force Fields and Experimental Siliceous Frameworks in a Comparative Infrared Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25797-25805	3.8	26
89	Understanding Gas-Induced Structural Deformation of ZIF-8. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1159-64	6.4	117
88	Photochemical behaviour of activated carbons under UV irradiation. <i>Carbon</i> , 2012 , 50, 249-258	10.4	84
87	Deep eutectic solvents as both precursors and structure directing agents in the synthesis of nitrogen doped hierarchical carbons highly suitable for CO ₂ capture. <i>Energy and Environmental Science</i> , 2011 , 4, 3535	35.4	165
86	On the Adsorption Kinetics and Equilibrium of Polyaromatic Hydrocarbons from Aqueous Solution. <i>Adsorption Science and Technology</i> , 2011 , 29, 467-478	3.6	10
85	Phenol Adsorption and Photo-Oxidation on Porous Carbon/Titania Composites. <i>Adsorption Science and Technology</i> , 2010 , 28, 727-738	3.6	16
84	Carbon foams as catalyst supports for phenol photodegradation. <i>Journal of Hazardous Materials</i> , 2010 , 184, 843-848	12.8	46
83	Surface heterogeneity effects of activated carbons on the kinetics of paracetamol removal from aqueous solution. <i>Applied Surface Science</i> , 2010 , 256, 5171-5175	6.7	78

82	Synthesis of nanoporous carbons from mixtures of coal tar pitch and furfural and their application as electrode materials. <i>Fuel Processing Technology</i> , 2010 , 91, 1710-1716	7.2	25
81	Effect of outgassing temperature on the performance of porous materials. <i>Applied Surface Science</i> , 2010 , 256, 5182-5186	6.7	18
80	Role of activated carbon features on the photocatalytic degradation of phenol. <i>Applied Surface Science</i> , 2010 , 256, 5254-5258	6.7	110
79	Waste-derived activated carbons for removal of ibuprofen from solution: role of surface chemistry and pore structure. <i>Bioresource Technology</i> , 2009 , 100, 1720-6	11	179
78	Thermodynamics of hydrogen adsorption on calcium-exchanged faujasite-type zeolites. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4371-4378	6.7	31
77	Adsorption of naphthalene from aqueous solution on activated carbons obtained from bean pods. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1150-6	12.8	78
76	Improved phenol adsorption on carbons after mild temperature steam reactivation. <i>Journal of Hazardous Materials</i> , 2009 , 166, 1289-95	12.8	9
75	Biomass waste-derived activated carbon for the removal of arsenic and manganese ions from aqueous solutions. <i>Applied Surface Science</i> , 2009 , 255, 4650-4657	6.7	102
74	Kinetics of naphthalene adsorption on an activated carbon: comparison between aqueous and organic media. <i>Chemosphere</i> , 2009 , 76, 433-8	8.4	52
73	Transferable Force Field for Carbon Dioxide Adsorption in Zeolites. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8814-8820	3.8	160
72	Guest-induced modification of a magnetically active ultramicroporous, gismondine-like, copper(II) coordination network. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3978-84	16.4	140
71	Unraveling the Argon Adsorption Processes in MFI-Type Zeolite. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9976-9979	3.8	47
70	Naphthalene adsorption on activated carbons using solvents of different polarity. <i>Adsorption</i> , 2008 , 14, 343-355	2.6	26
69	H ₂ storage in carbon materials. <i>Adsorption</i> , 2008 , 14, 557-566	2.6	35
68	Role of surface adsorption and porosity features in the molecular recognition ability of imprinted sol-gels. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1101-8	11.8	19
67	Relationship between Textural Properties, Fly Ash Carbons, and Hg Capture in Fly Ashes Derived from the Combustion of Anthracitic Pulverized Feed Blends. <i>Energy & Fuels</i> , 2007 , 21, 1915-1923	4.1	28
66	Borderline microporous-ultramicroporous palladium(II) coordination polymer networks. Effect of pore functionalisation on gas adsorption properties. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1939-1946		45
65	The Large Electrochemical Capacitance of Microporous Doped Carbon Obtained by Using a Zeolite Template. <i>Advanced Functional Materials</i> , 2007 , 17, 1828-1836	15.6	462

64	Effects of activated carbon properties on the adsorption of naphthalene from aqueous solutions. <i>Applied Surface Science</i> , 2007 , 253, 5741-5746	6.7	50
63	On the mechanism of reactive adsorption of dibenzothiophene on organic waste derived carbons. <i>Applied Surface Science</i> , 2007 , 253, 5899-5903	6.7	43
62	Using DFT analysis of adsorption data of multiple gases including H ₂ for the comprehensive characterization of microporous carbons. <i>Carbon</i> , 2007 , 45, 1066-1071	10.4	42
61	A computational study of CO ₂ , N ₂ , and CH ₄ adsorption in zeolites. <i>Adsorption</i> , 2007 , 13, 469-476	2.6	145
60	A comparison of characterization methods based on N ₂ and CO ₂ adsorption for the assessment of the pore size distribution of carbons. <i>Studies in Surface Science and Catalysis</i> , 2007 , 160, 319-326	1.8	9
59	Importance of the Hydrophobic Character of Activated Carbons on the Removal of Naphthalene from the Aqueous Phase. <i>Adsorption Science and Technology</i> , 2007 , 25, 155-167	3.6	31
58	Removal of naphthalene from aqueous solution on chemically modified activated carbons. <i>Water Research</i> , 2007 , 41, 333-40	12.5	69
57	Microwave-assisted regeneration of activated carbons loaded with pharmaceuticals. <i>Water Research</i> , 2007 , 41, 3299-306	12.5	99
56	Removal of Arsenic(III) from Aqueous Solution by Activated Carbons Prepared from Solvent Extracted Olive Pulp and Olive Stones. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 1896-1901	3.8	82
55	Structural Changes in Polyethylene Terephthalate (PET) Waste Materials Caused by Pyrolysis and CO ₂ Activation. <i>Adsorption Science and Technology</i> , 2006 , 24, 439-450	3.6	15
54	Effect of coal pre-oxidation on the optical texture and porosity of pyrolysis chars. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006 , 75, 27-32	6	20
53	H ₂ , N ₂ , CO, and CO ₂ sorption properties of a series of robust sodalite-type microporous coordination polymers. <i>Inorganic Chemistry</i> , 2006 , 45, 2397-9	5.1	144
52	Effect of microwave and conventional regeneration on the microporous and mesoporous network and on the adsorptive capacity of activated carbons. <i>Microporous and Mesoporous Materials</i> , 2005 , 85, 7-15	5.3	204
51	Producing adsorbents from sewage sludge and discarded tyres: Characterization and utilization for the removal of pollutants from water. <i>Chemical Engineering Journal</i> , 2005 , 114, 161-169	14.7	55
50	Surface modification of low cost carbons for their application in the environmental protection. <i>Applied Surface Science</i> , 2005 , 252, 619-624	6.7	95
49	Pyrolysis of activated carbons exhausted with organic compounds. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005 , 74, 518-524	6	34
48	Microwave-induced regeneration of activated carbons polluted with phenol. A comparison with conventional thermal regeneration. <i>Carbon</i> , 2004 , 42, 1383-1387	10.4	147
47	NMR and FTIR spectroscopic studies on the acidity of gallia bilica prepared by a sol-gel route. <i>Microporous and Mesoporous Materials</i> , 2004 , 67, 259-264	5.3	36

46	Effects of oxidative treatments with air and CO ₂ on vapour grown carbon nanofibres (VGCNFs) produced at industrial scale. <i>Thermochimica Acta</i> , 2004 , 423, 99-106	2.9	18
45	High value carbon materials from PET recycling. <i>Applied Surface Science</i> , 2004 , 238, 304-308	6.7	50
44	Hydrogen adsorption studies on single wall carbon nanotubes. <i>Carbon</i> , 2004 , 42, 1243-1248	10.4	140
43	Extension of preparation methods employed with ceramic materials to carbon honeycomb monoliths. <i>Carbon</i> , 2004 , 42, 3251-3254	10.4	79
42	Porosity, Surface Area, Surface Energy, and Hydrogen Adsorption in Nanostructured Carbons. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15820-15826	3.4	107
41	Textural development and hydrogen adsorption of carbon materials from PET waste. <i>Journal of Alloys and Compounds</i> , 2004 , 379, 280-289	5.7	56
40	Oxygen-Induced Decrease in the Equilibrium Adsorptive Capacities of Activated Carbons. <i>Adsorption Science and Technology</i> , 2004 , 22, 337-351	3.6	28
39	Effect of texture and surface chemistry on adsorptive capacities of activated carbons for phenolic compounds removal. <i>Fuel Processing Technology</i> , 2002 , 77-78, 337-343	7.2	39
38	Relation between texture and reactivity in metallurgical cokes obtained from coal using petroleum coke as additive. <i>Fuel Processing Technology</i> , 2002 , 77-78, 199-205	7.2	20
37	Influence of char structure on reactivity and nitric oxide emissions. <i>Fuel Processing Technology</i> , 2002 , 77-78, 103-109	7.2	25
36	Influence of oxygen-containing functional groups on active carbon adsorption of selected organic compounds. <i>Fuel Processing Technology</i> , 2002 , 79, 265-271	7.2	78
35	A comparison of ASA values determined by different methods. <i>Carbon</i> , 2002 , 40, 1381-1383	10.4	6
34	Textural characterisation of activated carbons obtained from poly(ethylene terephthalate) by carbon dioxide activation. <i>Studies in Surface Science and Catalysis</i> , 2002 , 537-543	1.8	20
33	Active surface area of carbon materials determined by different methods. <i>Studies in Surface Science and Catalysis</i> , 2002 , 144, 209-216	1.8	1
32	Influence of pyrolysis temperature on char optical texture and reactivity. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 887-909	6	65
31	Study of porous development in pyrolysis chars obtained from a low-volatile coal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001 , 58-59, 873-886	6	17
30	High surface area nickel aluminate spinels prepared by a sol-gel method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 180, 253-258	5.1	67
29	Alkoxy-derived high surface area perovskites: BaTiO ₃ and LaAlO ₃ . <i>Journal of Materials Science Letters</i> , 2001 , 20, 819-821		3

28	Textural properties in density-separated coal fractions. <i>Fuel</i> , 1999 , 78, 1631-1637	7.1	9
27	Sol-gel method for preparing high surface area CoAl ₂ O ₄ and Al ₂ O ₃ -CoAl ₂ O ₄ spinels. <i>Materials Letters</i> , 1999 , 39, 22-27	3.3	79
26	Preparation of active carbons from coal: Part III: Activation of char. <i>Fuel Processing Technology</i> , 1998 , 57, 149-161	7.2	31
25	Calorimetric Study of Amine Adsorption on γ and δ Titanium Phosphate. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 1713-1716	3.4	18
24	Layered mixed tin-titanium phosphates. <i>Journal of Materials Research</i> , 1998 , 13, 754-759	2.5	5
23	Effect of coal preoxidation on the development of microporosity in activated carbons. <i>Carbon</i> , 1996 , 34, 783-787	10.4	40
22	Preparation of active carbons from coal Part I. Oxidation of coal. <i>Fuel Processing Technology</i> , 1996 , 47, 119-138	7.2	30
21	Carbonization of wet and preheated coal. Effect on coke quality and its relation with textural properties. <i>Journal of Analytical and Applied Pyrolysis</i> , 1996 , 38, 119-130	6	9
20	Characterization of Activated Carbons by the BET Equation - An Alternative Approach. <i>Adsorption Science and Technology</i> , 1995 , 12, 51-66	3.6	57
19	Effect of gasification on the porous characteristics of activated carbons from a semianthracite. <i>Carbon</i> , 1995 , 33, 801-807	10.4	43
18	Modification of coal-tar pitch by air-blowing II. Influence on coke structure and properties. <i>Carbon</i> , 1995 , 33, 1235-1245	10.4	21
17	Activated carbons from semianthracite by steam activation. Effect of coal preoxidation and burn-off. <i>Studies in Surface Science and Catalysis</i> , 1994 , 87, 603-612	1.8	3
16	Influence of coal preoxidation on textural properties of chars. <i>Studies in Surface Science and Catalysis</i> , 1994 , 651-659	1.8	2
15	Influence of coal oxidation on the structure of char. <i>Fuel</i> , 1994 , 73, 1358-1364	7.1	30
14	Assessment of porosity in materials formed by oligomeric aluminum hydroxides and titanium phosphate intercalation compounds. <i>Studies in Surface Science and Catalysis</i> , 1994 , 87, 467-475	1.8	2
13	Binding of molybdenum-iron-sulfur clusters by amino acid esters. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993 , 543-548		3
12	Modification of coke properties as a consequence of coal preheating. <i>Fuel Processing Technology</i> , 1993 , 36, 307-312	7.2	2
11	Effect of operation variables in the obtention of tailored active carbons from coals. <i>Fuel Processing Technology</i> , 1993 , 36, 333-339	7.2	15

10	Relation between reactivity and textural properties in cokes from wet and preheated coals. <i>Solid State Ionics</i> , 1993 , 63-65, 772-776	3.3	5
9	Active carbons from semianthracites. <i>Applied Catalysis A: General</i> , 1993 , 98, 115-123	5.1	12
8	Reactivity of alpha-titanium phosphate/n-alkylamine intercalation compounds with mono- and polymeric aluminum species. <i>Materials Chemistry and Physics</i> , 1993 , 35, 250-256	4.4	20
7	Sulphur retention by limestone particles under PFBC conditions. <i>Fuel Processing Technology</i> , 1993 , 36, 65-71	7.2	14
6	Influence of Coal Preoxidation and Reactive Gas Flow Rate on Textural Properties of Active Carbons. <i>Studies in Surface Science and Catalysis</i> , 1991 , 347-355	1.8	5
5	Activated Carbon from Bituminous Coal. <i>Studies in Surface Science and Catalysis</i> , 1991 , 63, 439-448	1.8	2
4	The binding of a MoFe ₃ S ₄ double-cubane cluster by cysteine ethyl esters. <i>Polyhedron</i> , 1989 , 8, 1865-1866.	7	3
3	Crystal structure of the dicarbonyl cations cis- and trans-[Mn(CO) ₂ (dppm-PP?) ₂] ⁺ and their reactions with nucleophiles. <i>Journal of Organometallic Chemistry</i> , 1987 , 326, 201-216	2.3	7
2	Carbonyl complexes of manganese(I) with chelating phosphino-alkyl or -acyl ligands. Crystal and molecular structure of [Ph ₂ n(CO) ₂ (dppm)l. <i>Journal of Organometallic Chemistry</i> , 1985 , 297, 193-203	2.3	7
1	Properties of some catalysts used for the decarbonylation of furfural. <i>Reaction Kinetics and Catalysis Letters</i> , 1982 , 20, 415-423		4