

Diego Cazorla-Amoros

List of Publications by Year in descending order

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317
papers

20,060
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10956

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docs citations

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times ranked

16532
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#	ARTICLE	IF	CITATIONS
1	Understanding chemical reactions between carbons and NaOH and KOH. Carbon, 2003, 41, 267-275.	5.4	1,003
2	KOH and NaOH activation mechanisms of multiwalled carbon nanotubes with different structural organisation. Carbon, 2005, 43, 786-795.	5.4	727
3	Preparation of activated carbons from Spanish anthracite. Carbon, 2001, 39, 741-749.	5.4	608
4	Behaviour of activated carbons with different pore size distributions and surface oxygen groups for benzene and toluene adsorption at low concentrations. Carbon, 2005, 43, 1758-1767.	5.4	472
5	Hydrogen storage on chemically activated carbons and carbon nanomaterials at high pressures. Carbon, 2007, 45, 293-303.	5.4	420
6	Influence of pore structure and surface chemistry on electric double layer capacitance in non-aqueous electrolyte. Carbon, 2003, 41, 1765-1775.	5.4	414
7	Structural characterization of N-containing activated carbon fibers prepared from a low softening point petroleum pitch and a melamine resin. Carbon, 2002, 40, 597-608.	5.4	408
8	Characterization of Activated Carbon Fibers by CO ₂ Adsorption. Langmuir, 1996, 12, 2820-2824.	1.6	378
9	Role of surface chemistry on electric double layer capacitance of carbon materials. Carbon, 2005, 43, 2677-2684.	5.4	372
10	Advances in the study of methane storage in porous carbonaceous materials. Fuel, 2002, 81, 1777-1803.	3.4	367
11	CO ₂ as an Adsorptive To Characterize Carbon Molecular Sieves and Activated Carbons. Langmuir, 1998, 14, 4589-4596.	1.6	359
12	About reactions occurring during chemical activation with hydroxides. Carbon, 2004, 42, 1371-1375.	5.4	342
13	Carbon activation with KOH as explored by temperature programmed techniques, and the effects of hydrogen. Carbon, 2007, 45, 2529-2536.	5.4	335
14	Usefulness of CO ₂ adsorption at 273 K for the characterization of porous carbons. Carbon, 2004, 42, 1233-1242.	5.4	317
15	Hydrogen Storage in Activated Carbons and Activated Carbon Fibers. Journal of Physical Chemistry B, 2002, 106, 10930-10934.	1.2	313
16	Activation of coal tar pitch carbon fibres: Physical activation vs. chemical activation. Carbon, 2004, 42, 1367-1370.	5.4	280
17	Enhanced capacitance of carbon nanotubes through chemical activation. Chemical Physics Letters, 2002, 361, 35-41.	1.2	267
18	Preparation of activated carbons from Spanish anthracite. Carbon, 2001, 39, 751-759.	5.4	256

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19	Metal-free heteroatom-doped carbon-based catalysts for ORR: A critical assessment about the role of heteroatoms. Carbon, 2020, 165, 434-454.	5.4	231
20	Chemical and electrochemical characterization of porous carbon materials. Carbon, 2006, 44, 2642-2651.	5.4	211
21	Influence of pore size distribution on methane storage at relatively low pressure: preparation of activated carbon with optimum pore size. Carbon, 2002, 40, 989-1002.	5.4	210
22	Tailoring the porosity of chemically activated hydrothermal carbons: Influence of the precursor and hydrothermal carbonization temperature. Carbon, 2013, 62, 346-355.	5.4	198
23	The role of different nitrogen functional groups on the removal of SO ₂ from flue gases by N-doped activated carbon powders and fibres. Carbon, 2003, 41, 1925-1932.	5.4	196
24	Metal-support interaction in Pt/C catalysts. Influence of the support surface chemistry and the metal precursor. Carbon, 1995, 33, 3-13.	5.4	191
25	Factors controlling the SO ₂ removal by porous carbons: relevance of the SO ₂ oxidation step. Carbon, 2000, 38, 335-344.	5.4	178
26	Activated carbon monoliths for methane storage: influence of binder. Carbon, 2002, 40, 2817-2825.	5.4	172
27	Hydrothermal Carbons from Hemicellulose-Derived Aqueous Hydrolysis Products as Electrode Materials for Supercapacitors. ChemSusChem, 2013, 6, 374-382.	3.6	169
28	Competitive adsorption of a benzene-toluene mixture on activated carbons at low concentration. Carbon, 2006, 44, 1455-1463.	5.4	164
29	Effects of different carbon materials on MgH ₂ decomposition. Carbon, 2008, 46, 126-137.	5.4	158
30	Tpd and TPR characterization of carbonaceous supports and Pt/C catalysts. Carbon, 1993, 31, 895-902.	5.4	149
31	From Waste to Wealth: From Kraft Lignin to Free-standing Supercapacitors. Carbon, 2019, 145, 470-480.	5.4	145
32	Methane storage in activated carbon fibres. Carbon, 1997, 35, 291-297.	5.4	144
33	Effect of the activating gas on tensile strength and pore structure of pitch-based carbon fibres. Carbon, 1994, 32, 1277-1283.	5.4	132
34	Activated carbons prepared by pyrolysis of mixtures of carbon precursor/alkaline hydroxide. Journal of Analytical and Applied Pyrolysis, 2007, 80, 166-174.	2.6	131
35	Electrochemical deposition of platinum nanoparticles on different carbon supports and conducting polymers. Journal of Applied Electrochemistry, 2008, 38, 259-268.	1.5	129
36	Semihydrogenation of Phenylacetylene Catalyzed by Palladium Nanoparticles Supported on Carbon Materials. Journal of Physical Chemistry C, 2008, 112, 3827-3834.	1.5	125

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37	Powdered Activated Carbons and Activated Carbon Fibers for Methane Storage: A Comparative Study. <i>Energy & Fuels</i> , 2002, 16, 1321-1328.	2.5	124
38	Semihydrogenation of phenylacetylene catalyzed by metallic nanoparticles containing noble metals. <i>Journal of Catalysis</i> , 2006, 243, 74-81.	3.1	121
39	MOF-5 and activated carbons as adsorbents for gas storage. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2370-2381.	3.8	119
40	Advanced activated carbon monoliths and activated carbons for hydrogen storage. <i>Microporous and Mesoporous Materials</i> , 2008, 112, 235-242.	2.2	117
41	Role of the activated carbon surface chemistry in the adsorption of phenanthrene. <i>Carbon</i> , 2004, 42, 1683-1689.	5.4	115
42	Oxygen functional groups involved in the styrene production reaction detected by quasi in situ XPS. <i>Catalysis Today</i> , 2005, 102-103, 248-253.	2.2	115
43	Characterisation of coal tar pitches by thermal analysis, infrared spectroscopy and solvent fractionation. <i>Fuel</i> , 2001, 80, 41-48.	3.4	110
44	Benzene and toluene adsorption at low concentration on activated carbon fibres. <i>Adsorption</i> , 2011, 17, 473-481.	1.4	110
45	High surface area carbon nanotubes prepared by chemical activation. <i>Carbon</i> , 2002, 40, 1614-1617.	5.4	107
46	Effect of electrochemical treatments on the surface chemistry of activated carbon. <i>Carbon</i> , 2009, 47, 1018-1027.	5.4	105
47	Electrochemical regeneration and porosity recovery of phenol-saturated granular activated carbon in an alkaline medium. <i>Carbon</i> , 2010, 48, 2734-2745.	5.4	105
48	Theoretical and experimental studies of methane adsorption on microporous carbons. <i>Carbon</i> , 1997, 35, 1251-1258.	5.4	104
49	Influence of carbon fibres crystallinities on their chemical activation by KOH and NaOH. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 397-405.	2.2	103
50	Biomass-derived binderless fibrous carbon electrodes for ultrafast energy storage. <i>Green Chemistry</i> , 2016, 18, 1506-1515.	4.6	102
51	Beyond the H ₂ /CO ₂ upper bound: one-step crystallization and separation of nano-sized ZIF-11 by centrifugation and its application in mixed matrix membranes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6549-6556.	5.2	99
52	Investigation of Pd nanoparticles supported on zeolites for hydrogen production from formic acid dehydrogenation. <i>Catalysis Science and Technology</i> , 2015, 5, 364-371.	2.1	99
53	Inorganic materials as supports for palladium nanoparticles: Application in the semi-hydrogenation of phenylacetylene. <i>Journal of Catalysis</i> , 2008, 257, 87-95.	3.1	98
54	Investigating the influence of surfactants on the stabilization of aqueous reduced graphene oxide dispersions and the characteristics of their composite films. <i>Carbon</i> , 2012, 50, 3184-3194.	5.4	97

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55	Electrochemical Performance of Hierarchical Porous Carbon Materials Obtained from the Infiltration of Lignin into Zeolite Templates. <i>ChemSusChem</i> , 2014, 7, 1458-1467.	3.6	96
56	Asymmetric hybrid capacitors based on activated carbon and activated carbon fibreâ€PANI electrodes. <i>Electrochimica Acta</i> , 2013, 89, 326-333.	2.6	94
57	States of Pt in Pt/C catalyst precursors after impregnation, drying and reduction steps. <i>Applied Catalysis A: General</i> , 1998, 170, 93-103.	2.2	92
58	On the origin of the high capacitance of nitrogen-containing carbon nanotubes in acidic and alkaline electrolytes. <i>Chemical Communications</i> , 2014, 50, 11343-11346.	2.2	91
59	Free-standing supercapacitors from Kraft lignin nanofibers with remarkable volumetric energy density. <i>Chemical Science</i> , 2019, 10, 2980-2988.	3.7	88
60	Towards understanding the active sites for the ORR in N-doped carbon materials through fine-tuning of nitrogen functionalities: an experimental and computational approach. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24239-24250.	5.2	87
61	Temperature programmed desorption study on the mechanism of SO ₂ oxidation by activated carbon and activated carbon fibres. <i>Carbon</i> , 2001, 39, 231-242.	5.4	86
62	Preparation of general purpose carbon fibers from coal tar pitches with low softening point. <i>Carbon</i> , 1997, 35, 1079-1087.	5.4	85
63	Effect of surface chemistry on electrochemical storage of hydrogen in porous carbon materials. <i>Carbon</i> , 2008, 46, 1053-1059.	5.4	83
64	Application of zeolitic material synthesised from fly ash to the decontamination of waste water and flue gas. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 292-298.	1.6	82
65	Effect of carbon fibres on the mechanical properties and corrosion levels of reinforced portland cement mortars. <i>Cement and Concrete Research</i> , 2005, 35, 324-331.	4.6	82
66	Total oxidation of volatile organic compounds by vanadium promoted palladium-titania catalysts: Comparison of aromatic and polyaromatic compounds. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 66-76.	10.8	82
67	Fundamentals of methane adsorption in microporous carbons. <i>Microporous and Mesoporous Materials</i> , 2009, 124, 110-116.	2.2	82
68	The effects of hydrogen on thermal desorption of oxygen surface complexes. <i>Carbon</i> , 1997, 35, 543-554.	5.4	81
69	Ultraporous nitrogen-doped zeolite-templated carbon for high power density aqueous-based supercapacitors. <i>Carbon</i> , 2018, 129, 510-519.	5.4	79
70	Enhanced electro-oxidation resistance of carbon electrodes induced by phosphorus surface groups. <i>Carbon</i> , 2015, 95, 681-689.	5.4	76
71	Lignin-derived Pt supported carbon (submicron) fiber electrocatalysts for alcohol electro-oxidation. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 18-30.	10.8	75
72	Comparison among Chemical, Thermal, and Electrochemical Regeneration of Phenol-Saturated Activated Carbon. <i>Energy & Fuels</i> , 2010, 24, 3366-3372.	2.5	73

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73	Characterization of Bimetallic PtSn Catalysts Supported on Purified and H ₂ O ₂ -Functionalized Carbons Used for Hydrogenation Reactions. <i>Journal of Catalysis</i> , 1999, 184, 514-525.	3.1	72
74	Flexible ruthenium oxide-activated carbon cloth composites prepared by simple electrodeposition methods. <i>Energy</i> , 2013, 58, 519-526.	4.5	69
75	Clay-supported graphene materials: application to hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18635.	1.3	69
76	A comparison of hydrogen storage in activated carbons and a metal-organic framework (MOF-5). <i>Carbon</i> , 2010, 48, 2906-2909.	5.4	67
77	Effect of carbonization conditions of polyaniline on its catalytic activity towards ORR. Some insights about the nature of the active sites. <i>Carbon</i> , 2017, 119, 62-71.	5.4	67
78	Activation of electrospun lignin-based carbon fibers and their performance as self-standing supercapacitor electrodes. <i>Separation and Purification Technology</i> , 2020, 241, 116724.	3.9	67
79	Improvement of carbon materials performance by nitrogen functional groups in electrochemical capacitors in organic electrolyte at severe conditions. <i>Carbon</i> , 2015, 82, 205-213.	5.4	66
80	Asymmetric capacitors using lignin-based hierarchical porous carbons. <i>Journal of Power Sources</i> , 2016, 326, 641-651.	4.0	64
81	Polyaniline/porous carbon electrodes by chemical polymerisation: Effect of carbon surface chemistry. <i>Electrochimica Acta</i> , 2007, 52, 4962-4968.	2.6	62
82	Effects of Carbon-Supported Nickel Catalysts on MgH ₂ Decomposition. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5984-5992.	1.5	62
83	Electrochemical generation of oxygen-containing groups in an ordered microporous zeolite-templated carbon. <i>Carbon</i> , 2013, 54, 94-104.	5.4	62
84	Hydrogen Storage in Porous Materials: Status, Milestones, and Challenges. <i>Chemical Record</i> , 2018, 18, 900-912.	2.9	62
85	Insight into the origin of carbon corrosion in positive electrodes of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7480-7488.	5.2	62
86	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. <i>Langmuir</i> , 2016, 32, 12110-12118.	1.6	61
87	Activated Carbons Prepared through H ₃ PO ₄ -Assisted Hydrothermal Carbonisation from Biomass Wastes: Porous Texture and Electrochemical Performance. <i>ChemPlusChem</i> , 2016, 81, 1349-1359.	1.3	60
88	Further Advances in the Characterization of Microporous Carbons by Physical Adsorption of Gases. <i>Tanso</i> , 1998, 1998, 316-325.	0.1	59
89	Synthesis and characterisation of MFI-type zeolites supported on carbon materials. <i>Microporous and Mesoporous Materials</i> , 2001, 42, 255-268.	2.2	58
90	Micropore Size Distributions of Activated Carbons and Carbon Molecular Sieves Assessed by High-Pressure Methane and Carbon Dioxide Adsorption Isotherms. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9372-9379.	1.2	58

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91	Key factors improving oxygen reduction reaction activity in cobalt nanoparticles modified carbon nanotubes. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 303-312.	10.8	58
92	Strategies to Enhance the Performance of Electrochemical Capacitors Based on Carbon Materials. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	58
93	Modeling of oxygen reduction reaction in porous carbon materials in alkaline medium. Effect of microporosity. <i>Journal of Power Sources</i> , 2019, 412, 451-464.	4.0	56
94	Electrochemical Methods to Enhance the Capacitance in Activated Carbon/Polyaniline Composites. <i>Journal of the Electrochemical Society</i> , 2008, 155, A672.	1.3	53
95	Screening of different zeolites and silicoaluminophosphates for the retention of propene under cold start conditions. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 239-247.	2.2	53
96	A new strategy for germanium adsorption on activated carbon by complex formation. <i>Carbon</i> , 2007, 45, 2519-2528.	5.4	50
97	Oxygen-reduction catalysis of N-doped carbons prepared via heat treatment of polyaniline at over 1100 Å°C. <i>Chemical Communications</i> , 2018, 54, 4441-4444.	2.2	50
98	Palladium and Bimetallic Palladium-Nickel Nanoparticles Supported on Multiwalled Carbon Nanotubes: Application to Carbon-Carbon Bond-Forming Reactions in Water. <i>ChemCatChem</i> , 2015, 7, 1841-1847.	1.8	49
99	Design of Activated Carbon/Activated Carbon Asymmetric Capacitors. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	49
100	Nature and structure of calcium dispersed on carbon. <i>Energy & Fuels</i> , 1990, 4, 467-474.	2.5	48
101	Silica-templated ordered mesoporous carbon thin films as electrodes for micro-capacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4570-4579.	5.2	48
102	Adsorption properties of carbon molecular sieves prepared from an activated carbon by pitch pyrolysis. <i>Carbon</i> , 2005, 43, 1643-1651.	5.4	47
103	Ni-doped carbon xerogels for H ₂ storage. <i>Carbon</i> , 2010, 48, 2722-2733.	5.4	47
104	Preferential oxidation of CO catalyzed by supported polymer-protected palladium-based nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2010, 98, 161-170.	10.8	47
105	New insights on electrochemical hydrogen storage in nanoporous carbons by in situ Raman spectroscopy. <i>Carbon</i> , 2014, 69, 401-408.	5.4	47
106	Probe Molecule Kinetic Studies of Adsorption on MCM-41. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1012-1020.	1.2	46
107	Characterization of pore distribution in activated carbon fibers by microbeam small angle X-ray scattering. <i>Carbon</i> , 2002, 40, 2727-2735.	5.4	44
108	Generation of nitrogen functionalities on activated carbons by amidation reactions and Hofmann rearrangement: Chemical and electrochemical characterization. <i>Carbon</i> , 2015, 91, 252-265.	5.4	44

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109	Calcium-carbon interaction study: Its importance in the carbon-gas reactions. Carbon, 1991, 29, 361-369.	5.4	43
110	Molecular sieve properties of general-purpose carbon fibres. Carbon, 1998, 36, 1353-1360.	5.4	43
111	Further evidences of the usefulness of CO ₂ adsorption to characterize microporous solids.. Studies in Surface Science and Catalysis, 2000, 128, 485-494.	1.5	43
112	A comparison between oxidation of activated carbon by electrochemical and chemical treatments. Carbon, 2012, 50, 1123-1134.	5.4	43
113	Selective porosity development by calcium-catalyzed carbon gasification. Carbon, 1996, 34, 869-878.	5.4	42
114	Regeneration of activated carbons saturated with benzene or toluene using an oxygen-containing atmosphere. Chemical Engineering Science, 2010, 65, 2190-2198.	1.9	42
115	Nitrogen doped superporous carbon prepared by a mild method. Enhancement of supercapacitor performance. International Journal of Hydrogen Energy, 2016, 41, 19691-19701.	3.8	42
116	New insights into the electrochemical behaviour of porous carbon electrodes for supercapacitors. Journal of Energy Storage, 2018, 19, 337-347.	3.9	42
117	Nitrogen-Doped Superporous Activated Carbons as Electrocatalysts for the Oxygen Reduction Reaction. Materials, 2019, 12, 1346.	1.3	42
118	Pseudocapacitance of zeolite-templated carbon in organic electrolytes. Energy Storage Materials, 2015, 1, 35-41.	9.5	41
119	Carbon dioxide-calcium oxide surface and bulk reactions: thermodynamic and kinetic approach. The Journal of Physical Chemistry, 1991, 95, 6611-6617.	2.9	40
120	Scale-up activation of carbon fibres for hydrogen storage. International Journal of Hydrogen Energy, 2010, 35, 2393-2402.	3.8	40
121	Measuring cycle efficiency and capacitance of chemically activated carbons in propylene carbonate. Carbon, 2010, 48, 1451-1456.	5.4	40
122	Single wall carbon nanotubes loaded with Pd and NiPd nanoparticles for H ₂ sensing at room temperature. Carbon, 2014, 66, 599-611.	5.4	40
123	Porosity Development during CO ₂ and Steam Activation in a Fluidized Bed Reactor. Energy & Fuels, 2000, 14, 142-149.	2.5	39
124	Pd/zeolite-based catalysts for the preferential CO oxidation reaction: ion-exchange, Si/Al and structure effect. Catalysis Science and Technology, 2016, 6, 2623-2632.	2.1	39
125	Biomass waste conversion into low-cost carbon-based materials for supercapacitors: A sustainable approach for the energy scenario. Journal of Electroanalytical Chemistry, 2021, 880, 114899.	1.9	39
126	Isotropic petroleum pitch as a carbon precursor for the preparation of activated carbons by KOH activation. Carbon, 2009, 47, 2141-2142.	5.4	37

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127	Pillared carbons consisting of silsesquioxane bridged graphene layers for hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10702-10708.	3.8	37
128	Tailoring the Surface Chemistry of Activated Carbon Cloth by Electrochemical Methods. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11682-11691.	4.0	37
129	HRTEM study of activated carbons prepared by alkali hydroxide activation of anthracite. <i>Carbon</i> , 2004, 42, 1305-1310.	5.4	36
130	Electrochemical behaviour of activated carbons obtained via hydrothermal carbonization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15558-15567.	5.2	36
131	Analysis of the microporosity shrinkage upon thermal post-treatment of H ₃ PO ₄ activated carbons. <i>Carbon</i> , 2004, 42, 1339-1343.	5.4	35
132	Impact of the carbonisation temperature on the activation of carbon fibres and their application for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3091-3095.	3.8	35
133	Functionalization of carbon nanotubes using aminobenzene acids and electrochemical methods. Electroactivity for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11242-11253.	3.8	34
134	Highly Stable N-Doped Carbon-Supported Pd-Based Catalysts Prepared from Biomass Waste for H ₂ Production from Formic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15030-15043.	3.2	34
135	Effects of the surface chemistry and structure of carbon nanotubes on the coating of glucose oxidase and electrochemical biosensors performance. <i>RSC Advances</i> , 2017, 7, 26867-26878.	1.7	34
136	Usefulness of chemically activated anthracite for the abatement of VOC at low concentrations. <i>Fuel Processing Technology</i> , 2002, 77-78, 331-336.	3.7	33
137	Effect of the aging time of PVP coated palladium nanoparticles colloidal suspensions on their catalytic activity in the preferential oxidation of CO. <i>Catalysis Today</i> , 2012, 187, 2-9.	2.2	33
138	Structural and morphological alterations induced by cobalt substitution in LaMnO ₃ perovskites. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 658-666.	5.0	33
139	XAFS Study of Dried and Reduced PtSn/C Catalysts: Nature and Structure of the Catalytically Active Phase. <i>Langmuir</i> , 2000, 16, 1123-1131.	1.6	32
140	Kinetics of Double-Layer Formation: Influence of Porous Structure and Pore Size Distribution. <i>Energy & Fuels</i> , 2010, 24, 3378-3384.	2.5	32
141	Molecular sieve properties obtained by cracking of methane on activated carbon fibers. <i>Carbon</i> , 2002, 40, 2489-2494.	5.4	31
142	Influence of the nature and the content of carbon fiber on properties of thermoplastic polyurethane-carbon fiber composites. <i>Journal of Applied Polymer Science</i> , 2003, 90, 2676-2683.	1.3	31
143	Total oxidation of naphthalene using palladium nanoparticles supported on BETA, ZSM-5, SAPO-5 and alumina powders. <i>Applied Catalysis B: Environmental</i> , 2013, 129, 98-105.	10.8	31
144	Electrochemical performance of a superporous activated carbon in ionic liquid-based electrolytes. <i>Journal of Power Sources</i> , 2016, 336, 419-426.	4.0	31

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145	Carbon Nanotubes Modified With Au for Electrochemical Detection of Prostate Specific Antigen: Effect of Au Nanoparticle Size Distribution. <i>Frontiers in Chemistry</i> , 2019, 7, 147.	1.8	31
146	Effect of the support in Pt and PtSn catalysts used for selective hydrogenation of carvone. <i>Catalysis Today</i> , 2001, 66, 289-295.	2.2	30
147	State of Pt in Dried and Reduced PtIn and PtSn Catalysts Supported on Carbon. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4710-4716.	1.5	30
148	One step-synthesis of highly dispersed iron species into silica for propylene epoxidation with dioxygen. <i>Journal of Catalysis</i> , 2016, 338, 154-167.	3.1	30
149	On why do different carbons show different gasification rates: A transient isotopic CO ₂ gasification study. <i>Carbon</i> , 1994, 32, 1223-1231.	5.4	29
150	CuH-ZSM-5 as Hydrocarbon Trap under Cold Start Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 5851-5857.	4.6	29
151	XAFS and thermogravimetry study of the sintering of calcium supported on carbon. <i>Energy & Fuels</i> , 1993, 7, 139-145.	2.5	28
152	Structural study of a phenolformaldehyde char. <i>Carbon</i> , 1996, 34, 719-727.	5.4	28
153	Catalytic cracking of ethylene-vinyl acetate copolymers: comparison of different zeolites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 68-69, 495-506.	2.6	28
154	Activated Carbons for the Removal of Low-Concentration Gaseous Toluene at the Semipilot Scale. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 2066-2075.	1.8	28
155	Understanding of oxygen reduction reaction by examining carbon-oxygen gasification reaction and carbon active sites on metal and heteroatoms free carbon materials of different porosities and structures. <i>Carbon</i> , 2019, 148, 430-440.	5.4	28
156	Hardwood versus softwood Kraft lignin precursor-product relationships in the manufacture of porous carbon nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23543-23554.	5.2	28
157	Preparation of thin silicalite-1 layers on carbon materials by electrochemical methods. <i>Microporous and Mesoporous Materials</i> , 2003, 66, 331-340.	2.2	27
158	Capillary microreactors based on hierarchical SiO ₂ monoliths incorporating noble metal nanoparticles for the Preferential Oxidation of CO. <i>Chemical Engineering Journal</i> , 2015, 275, 71-78.	6.6	27
159	Relevance of the Interaction between the M-Phthalocyanines and Carbon Nanotubes in the Electroactivity toward ORR. <i>Langmuir</i> , 2017, 33, 11945-11955.	1.6	27
160	Synthesis of conducting polymer/carbon material composites and their application in electrical energy storage. , 2017, , 173-209.		27
161	Effect of Nitrogen-Functional Groups on the ORR Activity of Activated Carbon Fiber-Polypyrrole-Based Electrodes. <i>Electrocatalysis</i> , 2018, 9, 697-705.	1.5	27
162	Graphene-Clay Based Nanomaterials for Clean Energy Storage. <i>Science of Advanced Materials</i> , 2014, 6, 151-158.	0.1	27

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163	Manganese oxides/LaMnO ₃ perovskite materials and their application in the oxygen reduction reaction. <i>Energy</i> , 2022, 247, 123456.	4.5	27
164	Hydrogen Production from Formic Acid Attained by Bimetallic Heterogeneous PdAg Catalytic Systems. <i>Energies</i> , 2019, 12, 4027.	1.6	26
165	Zn-Promoted Selective Gas-Phase Hydrogenation of Tertiary and Secondary C ₄ Alkynols over Supported Pd. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28158-28168.	4.0	26
166	Effect of carbon surface on degradation of supercapacitors in a negative potential range. <i>Journal of Power Sources</i> , 2020, 457, 228042.	4.0	26
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