Francisco Carrasco-MarÃ-n

List of Publications by Year
in descending order

199 papers	9,245 citations	46984 47 h-index	48277 88 g-index
202 all docs	202 docs citations	202 times ranked	9265 citing authors

#	Article	IF	Citations
1	Changes in surface chemistry of activated carbons by wet oxidation. Carbon, 2000, 38, 1995-2001.	5.4	765
2	On the characterization of acidic and basic surface sites on carbons by various techniques. Carbon, 1999, 37, 1215-1221.	5.4	693
3	Activated Carbon Surface Modifications by Nitric Acid, Hydrogen Peroxide, and Ammonium Peroxydisulfate Treatments. Langmuir, 1995, 11, 4386-4392.	1.6	501
4	Activated carbons from KOH-activation of argan (Argania spinosa) seed shells as supercapacitor electrodes. Bioresource Technology, 2012, 111, 185-190.	4.8	368
5	Effects of non-oxidant and oxidant acid treatments on the surface properties of an activated carbon with very low ash content. Carbon, 1998, 36, 145-151.	5.4	290
6	Activated carbons from KOH and H 3 PO 4 -activation of olive residues and its application as supercapacitor electrodes. Electrochimica Acta, 2017, 229, 219-228.	2.6	221
7	Adsorption of some substituted phenols on activated carbons from a bituminous coal. Carbon, 1995, 33, 845-851.	5.4	199
8	The creation of acid carbon surfaces by treatment with (NH4)2S2O8. Carbon, 1997, 35, 1619-1626.	5.4	186
9	Regularities in the temperature-programmed desorption spectra of CO2 and CO from activated carbons. Carbon, 2000, 38, 1297-1308.	5.4	171
10	Chemical and physical activation of olive-mill waste water to produce activated carbons. Carbon, 2001, 39, 1415-1420.	5.4	159
11	Granular and monolithic activated carbons from KOH-activation of olive stones. Microporous and Mesoporous Materials, 2006, 92, 64-70.	2.2	126
12	Thermal regeneration of an activated carbon exhausted with different substituted phenols. Carbon, 1995, 33, 1417-1423.	5.4	123
13	Carbonâ€“TiO₂ composites as high-performance supercapacitor electrodes: synergistic effect between carbon and metal oxide phases. Journal of Materials Chemistry A, 2018, 6, 633-644.	5.2	99
14	Water adsorption on activated carbons with different degrees of oxidation. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 2211-2215.	1.7	98
15	Porosity and surface area of monolithic carbon aerogels prepared using alkaline carbonates and organic acids as polymerization catalysts. Carbon, 2006, 44, 2301-2307.	5.4	96
16	Surface Chemistry, Porous Texture, and Morphology of N-Doped Carbon Xerogels. Langmuir, 2009, 25, 466-470.	1.6	93
17	Functionalized adsorbents prepared from fruit peels: Equilibrium, kinetic and thermodynamic studies for copper adsorption in aqueous solution. Journal of Cleaner Production, 2017, 162, 195-204.	4.6	92
18	New carbon xerogel-TiO2 composites with high performance as visible-light photocatalysts for dye mineralization. Applied Catalysis B: Environmental, 2017, 201, 29-40.	10.8	92

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19	Cooperative adsorption of bisphenol-A and chromium(III) ions from water on activated carbons prepared from olive-mill waste. Carbon, 2014, 73, 338-350.	5.4	87
20	Dehydration of methanol to dimethyl ether catalyzed by oxidized activated carbons with varying surface acidic character. Carbon, 2001, 39, 869-875.	5.4	86
21	Activated carbons as adsorbents of sulfur dioxide in flowing air. Effect of their pore texture and surface basicity. Langmuir, 1993, 9, 1378-1383.	1.6	85
22	Activated carbons from agricultural waste solvothermally doped with sulphur as electrodes for supercapacitors. Chemical Engineering Journal, 2018, 334, 1835-1841.	6.6	84
23	Specific and non-specific interactions of water molecules with carbon surfaces from immersion calorimetry. Carbon, 2000, 38, 825-829.	5.4	79
24	Importance of the Adsorption Method Used for Obtaining the Nanoparticle Dosage for Asphaltene-Related Treatments. Energy & Fuels, 2016, 30, 2052-2059.	2.5	79
25	Surface-Treated Activated Carbons as Catalysts for the Dehydration and Dehydrogenation Reactions of Ethanol. Journal of Physical Chemistry B, 1998, 102, 9239-9244.	1.2	76
26	Reversible toluene adsorption on monolithic carbon aerogels. Journal of Hazardous Materials, 2007, 148, 548-552.	6.5	76
27	Design of low-temperature Pt-carbon combustion catalysts for VOC's treatments. Journal of Hazardous Materials, 2010, 183, 814-822.	6.5	75
28	Adsorption of Benzene, Toluene, and Xylenes on Monolithic Carbon Aerogels from Dry Air Flows. Langmuir, 2007, 23, 10095-10101.	1.6	74
29	Tailoring the surface chemistry and porosity of activated carbons: Evidence of reorganization and mobility of oxygenated surface groups. Carbon, 2014, 68, 520-530.	5.4	71
30	Catalysts Supported on Carbon Materials for the Selective Hydrogenation of Citral. Catalysts, 2013, 3, 853-877.	1.6	70
31	Preparation, surface characteristics, and electrochemical double-layer capacitance of KOH-activated carbon aerogels and their O- and N-doped derivatives. Journal of Power Sources, 2012, 219, 80-88.	4.0	68
32	Experimental Design To Optimize Preparation of Activated Carbons for Use in Water Treatment. Environmental Science & Technology, 2002, 36, 3844-3849.	4.6	66
33	Palladium and platinum catalysts supported on carbon nanofiber coated monoliths for low-temperature combustion of BTX. Applied Catalysis B: Environmental, 2009, 89, 411-419.	10.8	66
34	Activated Carbon and Tungsten Oxide Supported on Activated Carbon Catalysts for Toluene Catalytic Combustion. Environmental Science & Technology, 2004, 38, 4664-4670.	4.6	65
35	Surface Characteristics of Titania/Carbon Composite Aerogels. Langmuir, 2002, 18, 2295-2299.	1.6	64
36	Water sorption on silica- and zeolite-supported hygroscopic salts for cooling system applications. Energy Conversion and Management, 2012, 53, 219-223.	4.4	64

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37	Applicability of the Dubinin-Radushkevich equation to carbon dioxide adsorption on activated carbons. Langmuir, 1993, 9, 2758-2760.	1.6	62
38	Surface characteristics and electrochemical capacitances of carbon aerogels obtained from resorcinol and pyrocatechol using boric and oxalic acids as polymerization catalysts. Carbon, 2011, 49, 3808-3819.	5.4	61
39	Synthesis of TixOy nanocrystals in mild synthesis conditions for the degradation of pollutants under solar light. Applied Catalysis B: Environmental, 2019, 241, 385-392.	10.8	61
40	Heterogeneous and homogeneous Fenton processes using activated carbon for the removal of the herbicide amitrole from water. Applied Catalysis B: Environmental, 2011, 101, 425-430.	10.8	60
41	Tungsten and Tungsten Carbide Supported on Activated Carbon:â€‰ Surface Structures and Performance for Ethylene Hydrogenation. Langmuir, 2001, 17, 1752-1756.	1.6	59
42	Tungsten catalysts supported on activated carbonI. Preparation and characterization after their heat treatments in inert atmosphere. Journal of Catalysis, 2000, 192, 363-373.	3.1	57
43	Surface Area and Microporosity of Carbon Aerogels from Gas Adsorption and Small- and Wide-Angle X-ray Scattering Measurements. Journal of Physical Chemistry B, 2006, 110, 8681-8688.	1.2	53
44	On the micro- and mesoporosity of carbon aerogels and xerogels. The role of the drying conditions during the synthesis processes. Chemical Engineering Journal, 2012, 181-182, 851-855.	6.6	52
45	Physicochemical properties of new cellulose-TiO2 composites for the removal of water pollutants: Developing specific interactions and performances by cellulose functionalization. Journal of Environmental Chemical Engineering, 2018, 6, 5032-5041.	3.3	52
46	Carbon Xerogel Microspheres and Monoliths from Resorcinolâ€“Formaldehyde Mixtures with Varying Dilution Ratios: Preparation, Surface Characteristics, and Electrochemical Double-Layer Capacitances. Langmuir, 2013, 29, 6166-6173.	1.6	50
47	Adsorption mechanism of Chromium(III) from water solution on bone char: effect of operating conditions. Adsorption, 2016, 22, 297-308.	1.4	49
48	Microporous activated carbons from a bituminous coal. Fuel, 1996, 75, 966-970.	3.4	48
49	Pd and Pt catalysts supported on carbon-coated monoliths for low-temperature combustion of xylenes. Carbon, 2006, 44, 2463-2468.	5.4	48
50	Electrochemical performance of carbon gels with variable surface chemistry and physics. Carbon, 2012, 50, 3324-3332.	5.4	48
51	Specific and Nonspecific Interactions between Methanol and Ethanol and Active Carbons. Langmuir, 2000, 16, 5967-5972.	1.6	47
52	Water adsorption on zeolite 13X: comparison of the two methods based on mass spectrometry and thermogravimetry. Adsorption, 2010, 16, 141-146.	1.4	47
53	Removal of the surfactant sodium dodecylbenzenesulfonate from water by processes based on adsorption/bioadsorption and biodegradation. Journal of Colloid and Interface Science, 2014, 418, 113-119.	5.0	47
54	Carbon aerogels from gallic acidâ€“resorcinol mixtures as adsorbents of benzene, toluene and xylenes from dry and wet air under dynamic conditions. Carbon, 2009, 47, 463-469.	5.4	46

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55	Textural and mechanical characteristics of carbon aerogels synthesized by polymerization of resorcinol and formaldehyde using alkali carbonates as basification agents. Physical Chemistry Chemical Physics, 2010, 12, 10365.	1.3	46
56	Towards understanding of heterogeneous Fenton reaction using carbon-Fe catalysts coupled to in-situ H2O2 electro-generation as clean technology for wastewater treatment. Chemosphere, 2019, 224, 698-706.	4.2	46
57	Development of Carbon-ZrO2 composites with high performance as visible-light photocatalysts. Applied Catalysis B: Environmental, 2017, 217, 540-550.	10.8	44
58	Influence of carbonâ€“oxygen surface complexes on the surface acidity of tungsten oxide catalysts supported on activated carbons. Carbon, 2003, 41, 1157-1167.	5.4	43
59	Ligand Adsorption on an Activated Carbon for the Removal of Chromate Ions from Aqueous Solutions. Langmuir, 2005, 21, 6908-6914.	1.6	43
60	Biogas upgrading by selective adsorption onto CO 2 activated carbon from wood pellets. Journal of Environmental Chemical Engineering, 2017, 5, 1386-1393.	3.3	41
61	Electrochemical performances of supercapacitors from carbon-ZrO2 composites. Electrochimica Acta, 2018, 259, 803-814.	2.6	41
62	Removal of fluoride from aqueous solution using acid and thermally treated bone char. Adsorption, 2016, 22, 951-961.	1.4	39
63	Importance of the Nanofluid Preparation for Ultra-Low Interfacial Tension in Enhanced Oil Recovery Based on Surfactantâ€“Nanoparticleâ€“Brine System Interaction. ACS Omega, 2019, 4, 16171-16180.	1.6	39
64	Enlarging an Isoreticular Family: 3,3â€²,5,5â€²-Tetramethyl-4,4â€²-bipyrazolato-Based Porous Coordination Polymers. Crystal Growth and Design, 2013, 13, 3087-3097.	1.4	38
65	Pt-catalysts supported on activated carbons for catalytic wet air oxidation of aniline: Activity and stability. Applied Catalysis B: Environmental, 2011, 105, 86-94.	10.8	37
66	Methanol partial oxidation on carbon-supported Pt and Pd catalysts. Catalysis Today, 2007, 123, 158-163.	2.2	36
67	Preparation of carbon aerogel supported platinum catalysts for the selective hydrogenation of cinnamaldehyde. Applied Catalysis A: General, 2012, 425-426, 161-169.	2.2	36
68	Development of Composite Materials Based on the Interaction between Nanoparticles and Surfactants for Application in Chemical Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2018, 57, 12367-12377.	1.8	36
69	Carbon-based monolithic supports for palladium catalysts: The role of the porosity in the gas-phase total combustion of m-xylene. Applied Catalysis B: Environmental, 2008, 77, 272-277.	10.8	35
70	Effect of Magnetic Iron Coreâ€“Carbon Shell Nanoparticles in Chemical Enhanced Oil Recovery for Ultralow Interfacial Tension Region. Energy & Fuels, 2019, 33, 4158-4168.	2.5	34
71	Development of Vanadiumâ€Coated Carbon Microspheres: Electrochemical Behavior as Electrodes for Supercapacitors. Advanced Functional Materials, 2018, 28, 1802337.	7.8	33
72	Heteroatom-doped graphene aerogels and carbon-magnetite catalysts for the heterogeneous electro-Fenton degradation of acetaminophen in aqueous solution. Journal of Catalysis, 2019, 378, 68-79.	3.1	33

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73	Functionalized Cellulose for the Controlled Synthesis of Novel Carbonâ€“Ti Nanocomposites: Physicochemical and Photocatalytic Properties. Nanomaterials, 2020, 10, 729.	1.9	33
74	From CO2 to Value-Added Products: A Review about Carbon-Based Materials for Electro-Chemical CO2 Conversion. Catalysts, 2021, 11, 351.	1.6	33
75	Removal of emerging pollutants present in water using an E-coli biofilm supported onto activated carbons prepared from argan wastes: Adsorption studies in batch and fixed bed. Science of the Total Environment, 2020, 720, 137491.	3.9	31
76	Tungsten catalysts supported on activated carbonII. Skeletal isomerization of 1-butene. Journal of Catalysis, 2000, 192, 374-380.	3.1	30
77	Structural characterization of carbon xerogels: From film to monolith. Microporous and Mesoporous Materials, 2012, 153, 24-29.	2.2	30
78	Free metal oxygen-reduction electro-catalysts obtained from biomass residue of the olive oil industry. Chemical Engineering Journal, 2016, 306, 1109-1115.	6.6	30
79	Controlling interpenetration for tuning porosity and luminescence properties of flexible MOFs based on biphenyl-4,4â€²-dicarboxylic acid. CrystEngComm, 2016, 18, 1282-1294.	1.3	30
80	Surface functionalization to abate the irreversible capacity of hard carbons derived from grapefruit peels for sodium-ion batteries. Electrochimica Acta, 2019, 326, 134973.	2.6	30
81	A microfluidic study to investigate the effect of magnetic iron core-carbon shell nanoparticles on displacement mechanisms of crude oil for chemical enhanced oil recovery. Journal of Petroleum Science and Engineering, 2020, 184, 106589.	2.1	30
82	Wet air oxidation of trinitrophenol with activated carbon catalysts: Effect of textural properties on the mechanism of degradation. Applied Catalysis B: Environmental, 2010, 100, 310-317.	10.8	29
83	Synthesis and characterization of carbon xerogel/graphene hybrids as adsorbents for metronidazole pharmaceutical removal: Effect of operating parameters. Separation and Purification Technology, 2020, 237, 116341.	3.9	29
84	The use of activated carbon columns for the removal of ortho-phosphate ions from aqueous solutions. Carbon, 1990, 28, 91-95.	5.4	28
85	Influence of support porosity and Pt content of Pt/carbon aerogel catalysts on metal dispersion and formation of self-assembled Ptâ€“carbon hybrid nanostructures. Carbon, 2009, 47, 2679-2687.	5.4	28
86	Tailoring activated carbons for the development of specific adsorbents of gasoline vapors. Journal of Hazardous Materials, 2013, 263, 533-540.	6.5	28
87	Electrodes Based on Carbon Aerogels Partially Graphitized by Doping with Transition Metals for Oxygen Reduction Reaction. Nanomaterials, 2018, 8, 266.	1.9	28
88	Carbon-supported Pt as catalysts for low-temperature methanol decomposition to carbon monoxide and hydrogen. Applied Catalysis A: General, 2004, 275, 119-126.	2.2	27
89	Microspheres of carbon xerogel: An alternative Pt-support for the selective hydrogenation of citral. Applied Catalysis A: General, 2014, 482, 318-326.	2.2	27
90	On the Interactions and Synergism between Phases of Carbonâ€“Phosphorusâ€“Titanium Composites Synthetized from Cellulose for the Removal of the Orange-G Dye. Materials, 2018, 11, 1766.	1.3	27

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91	Adsorption of SO2 in flowing air onto activated carbons from olive stones. Fuel, 1992, 71, 575-578.	3.4	26
92	Adsorption of carbon dioxide on activated carbons from diluted ambient environments. Energy & Fuels, 1994, 8, 239-243.	2.5	26
93	Cobalt-Doped Carbon Gels as Electro-Catalysts for the Reduction of CO2 to Hydrocarbons. Catalysts, 2017, 7, 25.	1.6	26
94	Effects of ageing on the oxygen surface complexes of an oxidized activated carbon. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2779-2782.	1.7	25
95	Inter- and Intra-Primary-Particle Structure of Monolithic Carbon Aerogels Obtained with Varying Solvents. Langmuir, 2008, 24, 2820-2825.	1.6	25
96	Coupling Noble Metals and Carbon Supports in the Development of Combustion Catalysts for the Abatement of BTX Compounds in Air Streams. Catalysts, 2015, 5, 774-799.	1.6	25
97	Grapefruit peels as biosorbent: characterization and use in batch and fixed bed column for Cu(II) uptake from wastewater. Journal of Chemical Technology and Biotechnology, 2017, 92, 1650-1658.	1.6	25
98	Microcalorimetric study of the absorption of hydrogen by palladium powders and carbon-supported palladium particles. Langmuir, 1993, 9, 984-992.	1.6	24
99	Distribution of surface oxygen complexes on activated carbons from immersion calorimetry, titration and temperature-programmed desorption techniques. Carbon, 2001, 39, 2235-2237.	5.4	23
100	Adsorption of 1,3,6-Naphthalenetrisulfonic Acid on Activated Carbon in the Presence of Cd(II), Cr(III), and Hg(II). Importance of Electrostatic Interactions. Langmuir, 2003, 19, 10857-10861.	1.6	23
101	Influence of the pretreatment conditions on the development and performance of active sites of Pt/TiO2 catalysts used for the selective citral hydrogenation. Journal of Catalysis, 2015, 327, 86-95.	3.1	23
102	Insight of the effect of graphitic cluster in the performance of carbon aerogels doped with nickel as electrodes for supercapacitors. Carbon, 2018, 139, 888-895.	5.4	23
103	Selective hydrogenation of citral by noble metals supported on carbon xerogels: Catalytic performance and stability. Applied Catalysis A: General, 2016, 512, 63-73.	2.2	22
104	Electrochemical detection of copper in water using carbon paste electrodes prepared from bio-template (grapefruit peels) functionalized with carboxyl groups. Journal of Electroanalytical Chemistry, 2019, 837, 22-29.	1.9	22
105	Unveiling the exceptional synergism-induced design of Co-Mg-Al layered triple hydroxides (LTHs) for boosting catalytic activity toward the green synthesis of indol-3-yl derivatives under mild conditions. Journal of Colloid and Interface Science, 2021, 599, 227-244.	5.0	22
106	Air gasification of activated carbons and chars catalysed by Cr2O3 and MoO2. Fuel, 1990, 69, 354-361.	3.4	21
107	Electrochemical performance of Cu- and Ag-doped carbon aerogels. Materials Chemistry and Physics, 2013, 138, 870-876.	2.0	21
108	Carbon - iron electro-catalysts for CO2 reduction. The role of the iron particle size. Journal of CO2 Utilization, 2018, 24, 240-249.	3.3	21

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109	On the Carbon Dioxide and Benzene Adsorption on Activated Carbons To Study Their Micropore Structure. Langmuir, 1997, 13, 5208-5210.	1.6	20
110	Development of carbon xerogels as alternative Pt-supports for the selective hydrogenation of citral. Catalysis Communications, 2015, 58, 64-69.	1.6	20
111	A novel one-pot facile economic approach for the mass synthesis of exfoliated multilayered nitrogen-doped graphene-like nanosheets: new insights into the mechanistic study. Physical Chemistry Chemical Physics, 2019, 21, 13611-13622.	1.3	20
112	Nickel Cobaltite Functionalized Silver Doped Carbon Xerogels as Efficient Electrode Materials for High Performance Symmetric Supercapacitor. Materials, 2020, 13, 4906.	1.3	20
113	Dynamic adsorption of methyl iodide on activated carbons. Carbon, 1991, 29, 629-634.	5.4	19
114	Cobalt catalysts supported on activated carbons: preparation and behaviour in the hydrogenation of carbon oxides. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3519.	1.7	19
115	Title is missing!. Reaction Kinetics and Catalysis Letters, 2000, 71, 137-142.	0.6	19
116	Nanoporous carbon materials: Comparison between information obtained by SAXS and WAXS and by gas adsorption. Carbon, 2005, 43, 3009-3012.	5.4	18
117	Development of Carbon Coatings for Cordierite Foams:â€‰ An Alternative to Cordierite Honeycombs. Langmuir, 2008, 24, 3267-3273.	1.6	18
118	Activated carbon cloth as adsorbent and oxidation catalyst forÂtheÂremoval of amitrole from aqueous solution. Adsorption, 2011, 17, 413-419.	1.4	18
119	Micropore Structure of Activated Carbons Prepared From a Spanish Subbituminous Coal Studied by CO2, Benzene, and Cyclohexane Adsorption. Langmuir, 1995, 11, 247-252.	1.6	17
120	Influence of the Boron Precursor and Drying Method on Surface Properties and Electrochemical Behavior of Boron-Doped Carbon Gels. Langmuir, 2014, 30, 1716-1722.	1.6	17
121	Fitting the porosity of carbon xerogel by CO2 activation to improve the TMP/n-octane separation. Microporous and Mesoporous Materials, 2015, 209, 10-17.	2.2	17
122	Bacteria supported on carbon films for water denitrification. Chemical Engineering Journal, 2015, 259, 424-429.	6.6	17
123	Mesoporous carbon nanospheres with improved conductivity for electro-catalytic reduction of O2 and CO2. Carbon, 2019, 155, 88-99.	5.4	17
124	Chemoselective Pt-catalysts supported on carbon-TiO2 composites for the direct hydrogenation of citral to unsaturated alcohols. Journal of Catalysis, 2016, 344, 701-711.	3.1	16
125	Adsorption of Diclofenac from Aqueous Solution onto Carbon Xerogels: Effect of Synthesis Conditions and Presence of Bacteria. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	16
126	Valorization of agricultural wood wastes as electrodes for electrochemical capacitors by chemical activation with H3PO4 and KOH. Wood Science and Technology, 2020, 54, 401-420.	1.4	16

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127	Pt/carbon catalysts: Effect of pretreatment on the dispersion and morphology of the Pt particles, on their capacity to chemisorb H2 and on the H2/n-C4H10 reaction. Journal of Molecular Catalysis, 1991, 66, 329-341.	1.2	15
128	Activated carbon columns as adsorbents of gallic acid from aqueous solutions: Effect of the presence of different electrolytes. Carbon, 1992, 30, 107-111.	5.4	15
129	Synthesis, surface characteristics, and electrochemical capacitance of Cu-doped carbon xerogel microspheres. Carbon, 2013, 55, 260-268.	5.4	15
130	Symmetric Supercapacitor Electrodes from KOH Activation of Pristine, Carbonized, and Hydrothermally Treated Melia azedarach Stones. Materials, 2017, 10, 747.	1.3	15
131	Carbon-vanadium composites as non-precious catalysts for electro-reduction of oxygen. Carbon, 2019, 144, 289-300.	5.4	15
132	Activated carbon-based coloured titania nanoparticles with high visible radiation absorption and excellent photoactivity in the degradation of emerging drugs of wastewater. Carbon, 2021, 178, 753-766.	5.4	15
133	Carbon-based monoliths for the catalytic elimination of benzene, toluene and m-xylene. Applied Catalysis A: General, 2009, 366, 282-287.	2.2	14
134	Immobilization of P. stutzeri on Activated Carbons for Degradation of Hydrocarbons from Oil-in-Saltwater Emulsions. Nanomaterials, 2019, 9, 500.	1.9	14
135	Isotherm, kinetic, and thermodynamic studies for dynamic adsorption of toluene in gas phase onto porous Fe-MIL-101/OAC composite. Environmental Science and Pollution Research, 2020, 27, 44022-44035.	2.7	14
136	Toluene adsorption on porous Cuâ€“BDC@OAC composite at various operating conditions: optimization by response surface methodology. RSC Advances, 2020, 10, 35582-35596.	1.7	14
137	MoO2 as catalyst in the CO2 gasification of activated carbons and chars. Fuel, 1991, 70, 13-16.	3.4	13
138	Influence of the Pt-particle size on the performance of carbon supported catalysts used in the hydrogenation of citral. Catalysis Communications, 2016, 82, 36-40.	1.6	13
139	From Carbon Molecular Sieves to VOCs filters: Carbon gels with tailored porosity for hexane isomers adsorption and separation. Microporous and Mesoporous Materials, 2018, 270, 161-167.	2.2	13
140	Chemical characterization of tequila maturation process and their connection with the physicochemical properties of the cask. Journal of Food Composition and Analysis, 2021, 98, 103804.	1.9	13
141	Removal of tannic acid from aqueous solutions by activated carbons. The Chemical Engineering Journal, 1993, 52, 37-39.	0.4	12
142	Preparation of V/ZrO2 catalysts by the sol-gel method: Physical and structural characterization. Journal of Materials Science, 1996, 31, 437-444.	1.7	12
143	Adsorption of SO2 from flowing air by alkaline-oxide-containing activated carbons. Applied Catalysis B: Environmental, 1997, 13, 229-240.	10.8	12
144	Organic xerogels doped with Tris(2,2â€²-bipyridine) ruthenium(II) as hydroxyl radical promoters: Synthesis, characterization, and photoactivity. Chemical Engineering Journal, 2016, 306, 289-297.	6.6	12

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145	Resorcinolâ€“formaldehyde carbon xerogel as selective adsorbent of carbon dioxide present on biogas. Adsorption, 2018, 24, 169-177.	1.4	12
146	Carbon Xerogels Hydrothermally Doped with Bimetal Oxides for Oxygen Reduction Reaction. Materials, 2019, 12, 2446.	1.3	12
147	Iron precursor salt effect on the generation of OH radicals and sulfamethoxazole degradation through a heterogeneous Fenton process using Carbon-Fe catalysts. Journal of Water Process Engineering, 2020, 36, 101273.	2.6	12
148	Novel biomaterial design based on Pseudomonas stutzeriâ€“carbon xerogel microspheres for hydrocarbon removal from oil-in-saltwater emulsions: A new proposed treatment of produced water in oilfields. Journal of Water Process Engineering, 2020, 35, 101222.	2.6	12
149	Insights into the Morphology Effect of Ceria on the Catalytic Performance of NiOâ€“PdO/CeO₂ Nanoparticles for Thermo-oxidation of n-C₇ Asphaltenes under Isothermal Heating at Different Pressures. Energy & Fuels, 2021, 35, 18170-18184.	2.5	12
150	Adsorption of hydrocarbons on thermally treated aluminosilicate. Journal of Colloid and Interface Science, 1988, 126, 552-560.	5.0	11
151	Steam gasification of a lignite char catalysed by metals from chromium to zinc. Fuel, 1992, 71, 105-108.	3.4	11
152	Demineralization of a bituminous coal by froth flotation before obtaining activated carbons. Carbon, 1996, 34, 917-921.	5.4	11
153	Effect of dilution ratio and drying method of resorcinolâ€“formaldehyde carbon gels on their electrocapacitive properties in aqueous and non-aqueous electrolytes. Journal of Sol-Gel Science and Technology, 2015, 75, 407-412.	1.1	11
154	Influence of the physicochemical properties of inorganic supports on the activity of immobilized bacteria for water denitrification. Journal of Environmental Management, 2015, 156, 81-88.	3.8	11
155	Synthesis and characterization of solid polymer and carbon spheres derived from an emulsion polymerization reaction of different phenolic compounds with formaldehyde. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 488-496.	2.3	11
156	Chars from waste tire rubber by catalytic pyrolysis and the statistical analysis of the adsorption of Fe in potable water. Environmental Progress and Sustainable Energy, 2017, 36, 1794-1801.	1.3	11
157	Optimization Models Type Box-Behnken in the Obtaining of Biodiesel from Waste Frying Oil using a Large-acidity Carbonaceous Catalyst. International Journal of Chemical Reactor Engineering, 2017, 15, .	0.6	11
158	An Enhanced Carbon Capture and Storage Process (e-CCS) Applied to Shallow Reservoirs Using Nanofluids Based on Nitrogen-Rich Carbon Nanospheres. Materials, 2019, 12, 2088.	1.3	11
159	Monolithic carbon xerogels-metal composites for crude oil removal from oil in-saltwater emulsions and subsequent regeneration through oxidation process: Composites synthesis, adsorption studies, and oil decomposition experiments. Microporous and Mesoporous Materials, 2021, 319, 111039.	2.2	11
160	Aminoâ€functionalized material from a bioâ€template for silver adsorption: process evaluation in batch and fixed bed. Journal of Chemical Technology and Biotechnology, 2019, 94, 590-599.	1.6	10
161	Influence of Surface Chemistry on the Electrochemical Performance of Biomass-Derived Carbon Electrodes for its Use as Supercapacitors. Materials, 2019, 12, 2458.	1.3	10
162	The use of functionalized carbon xerogels in cells growth. Materials Science and Engineering C, 2019, 100, 598-607.	3.8	10

#	Article	IF	Citations
163	Binary and Ternary 3D Nanobundles Metal Oxides Functionalized Carbon Xerogels as Electrocatalysts toward Oxygen Reduction Reaction. Materials, 2020, 13, 3531.	1.3	10
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