Carlos DurÃ¡n-Valle

List of Publications by Year
in descending order

51 papers	1,961 citations	236612 25 h-index	243296 44 g-index
52 all docs	52 docs citations	52 times ranked	2377 citing authors

#	Article	IF	Citations
1	FT-IR study of rockrose and of char and activated carbon. Journal of Analytical and Applied Pyrolysis, 1996, 36, 71-80.	2.6	275
2	Formation of oxygen structures by air activation. A study by FT-IR spectroscopy. Carbon, 1999, 37, 1517-1528.	5.4	188
3	Bare TiO 2 and graphene oxide TiO 2 photocatalysts on the degradation of selected pesticides and influence of the water matrix. Applied Surface Science, 2017, 416, 1013-1021.	3.1	161
4	Synergic adsorption in the simultaneous removal of acid blue 25 and heavy metals from water using a Ca(PO3)2-modified carbon. Journal of Hazardous Materials, 2012, 199-200, 290-300.	6.5	105
5	Study of cherry stones as raw material in preparation of carbonaceous adsorbents. Journal of Analytical and Applied Pyrolysis, 2005, 73, 59-67.	2.6	97
6	Last Decade of Research on Activated Carbons as Catalytic Support in Chemical Processes. Catalysis Reviews - Science and Engineering, 2010, 52, 325-380.	5.7	81
7	Pore structure of activated carbons prepared by carbon dioxide and steam activation at different temperatures from extracted rockrose. Carbon, 2002, 40, 397-402.	5.4	67
8	Ultrasound accelerated Claisenâ€“Schmidt condensation: A green route to chalcones. Applied Surface Science, 2006, 252, 6071-6074.	3.1	63
9	Analysis of synergistic and antagonistic adsorption of heavy metals and acid blue 25 on activated carbon from ternary systems. Chemical Engineering Research and Design, 2015, 93, 755-772.	2.7	58
10	On the optimization of activated carbon-supported iron catalysts in catalytic wet peroxide oxidation process. Applied Catalysis B: Environmental, 2016, 181, 249-259.	10.8	53
11	Synthesis and characterization of nanostructured calcium oxides supported onto biochar and their application as catalysts for biodiesel production. Renewable Energy, 2020, 160, 52-66.	4.3	53
12	Organic chemical structure and structural shrinkage of chars prepared from rockrose. Carbon, 1998, 36, 1251-1256.	5.4	47
13	Sonocatalysis in solvent free conditions: An efficient eco-friendly methodology to prepare chalcones using a new type of amino grafted zeolites. Catalysis Today, 2006, 114, 183-187.	2.2	46
14	Catalysis by basic carbons: Preparation of dihydropyridines. Applied Surface Science, 2006, 252, 6080-6083.	3.1	43
15	Preparation of a new adsorbent for the removal of arsenic and its simulation with artificial neural network-based adsorption models. Journal of Environmental Chemical Engineering, 2020, 8, 103928.	3.3	42
16	Reactions of thioamides with metal carboxylates in organic media. Tetrahedron, 1997, 53, 14463-14480.	1.0	38
17	Chemical study of extracted rockrose and of chars and activated carbons prepared at different temperatures. Journal of Analytical and Applied Pyrolysis, 1999, 50, 1-16.	2.6	37
18	Heat treatment of rockrose char in air. Effect on surface chemistry and porous texture. Carbon, 1996, 34, 533-538.	5.4	36

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19	Pore structure of chars and activated carbons prepared using carbon dioxide at different temperatures from extracted rockrose. Journal of Analytical and Applied Pyrolysis, 2001, 57, 1-13.	2.6	32
20	Sonocatalysis and alkaline-doped carbons: An efficient method for the synthesis of chalcones in heterogeneous media. Catalysis Today, 2005, 107-108, 500-506.	2.2	32
21	Activated carbon as a catalyst for the synthesis of N-alkylimidazoles and imidazolium ionic liquids. Catalysis Today, 2012, 187, 108-114.	2.2	32
22	Preparation of charcoal from cherry stones. Applied Surface Science, 2006, 252, 5957-5960.	3.1	31
23	Water defluoridation with avocado-based adsorbents: Synthesis, physicochemical characterization and thermodynamic studies. Journal of Molecular Liquids, 2018, 254, 188-197.	2.3	31
24	Mesoporous carbon as an efficient catalyst for alcoholysis and aminolysis of epoxides. Applied Catalysis A: General, 2012, 439-440, 24-30.	2.2	28
25	Reaction of thioamides with silver carboxylates in aprotic media. A nucleophilic approach to the synthesis of imides, amides, and nitriles. Tetrahedron Letters, 1994, 35, 477-480.	0.7	27
26	Synthesis of glycoamidines using a mercury-promoted reaction. Tetrahedron, 1995, 51, 8043-8056.	1.0	25
27	Acidâ€Activated Carbon Materials: Cheaper Alternative Catalysts for the Synthesis of Substituted Quinolines. ChemCatChem, 2013, 5, 3736-3742.	1.8	24
28	Ultrasound-promoted N-propargylation of imidazole by alkaline-doped carbons. Carbon, 2004, 42, 1363-1366.	5.4	21
29	Recovery of grape waste for the preparation of adsorbents for water treatment: Mercury removal. Journal of Environmental Chemical Engineering, 2020, 8, 103738.	3.3	17
30	Adsorption in Water Treatment. , 2019, , .		16
31	Enhanced Catalytic Properties of Carbon supported Zirconia and Sulfated Zirconia for the Green Synthesis of Benzodiazepines. ChemCatChem, 2018, 10, 5215-5223.	1.8	15
32	Optimizing P25-rGO composites for pesticides degradation: Elucidation of photo-mechanism. Catalysis Today, 2019, 328, 172-177.	2.2	15
33	The effect of ultrasound on the N-alkylation of imidazole over alkaline carbons: Kinetic aspects. Applied Catalysis A: General, 2010, 378, 26-32.	2.2	14
34	Acidic porous carbons involved in the green and selective synthesis of benzodiazepines. Catalysis Today, 2020, 357, 64-73.	2.2	13
35	Alkylation of imidazole under ultrasound irradiation over alkaline carbons. Applied Surface Science, 2006, 252, 6089-6092.	3.1	12
36	Adsorption of Aqueous Mercury(II) Species by Commercial Activated Carbon Fibres with and without Surface Modification. Adsorption Science and Technology, 2007, 25, 199-215.	1.5	11

#	Article	IF	Citations
37	Acidic Activated Carbons: An Efficient Catalyst for the Epoxide Ring-Opening Reaction with Ethanol. Catalysis Letters, 2009, 130, 37-41.	1.4	11
38	The effect of ultrasound on the catalytic activity of alkaline carbons: preparation of N-alkyl imidazoles. Applied Surface Science, 2004, 238, 97-100.	3.1	9
39	Green chemistry: Efficient epoxides ring-opening with 1-butanol under microwave irradiation. Applied Surface Science, 2006, 252, 6064-6066.	3.1	8
40	Radioactive content of charcoal. Applied Radiation and Isotopes, 2009, 67, 953-956.	0.7	8
41	Synthesis and characterisation of acid/basic modified adsorbents. Application for chlorophenols removal. Environmental Research, 2022, 207, 112187.	3.7	8
42	Eco-friendly mechanochemical synthesis of titania-graphene nanocomposites for pesticide photodegradation. Separation and Purification Technology, 2022, 289, 120638.	3.9	8
43	Use of phosphorylated chitosan/alumina nanoadditives for polymer performance improvement. Cellulose, 2022, 29, 6677-6696.	2.4	6
44	Performance of Iron-Functionalized Activated Carbon Catalysts (Fe/AC-f) on CWPO Wastewater Treatment. Catalysts, 2021, 11, 337.	1.6	4
45	Geometrical relationship between elemental composition and molecular size in carbonaceous materials. Applied Surface Science, 2006, 252, 6097-6101.	3.1	3
46	NMR studies and semiempirical calculations on the structure of glycoamidines. Tetrahedron, 1996, 52, 9263-9274.	1.0	2
47	Hydrothermal Carbonisation: An Eco-Friendly Method for the Production of Carbon Adsorbents. , 2017, , 77-108.		2
48	Sustainable Carbon-Based Materials as Heterogeneous Catalysts in Solvent-Free Acetylation Reactions. Proceedings (mdpi), 2019, 9, 40.	0.2	2
49	Functional porous carbons: Synthetic strategies and catalytic application in fine chemical synthesis. , 2021, , 299-352.		2
50	Carbonâ€“Heteroatom Bond Formation via Coupling Reactions Performed on a Magnetic Nanoparticle Bed. AppliedChem, 2021, 1, 75-89.	0.2	1
51	Modification of carbons with acids, salts, and hydrogen peroxide for the adsorption of anionic and cationic dyes in single and binary systems with Cd2+ and CrO42-. , 0, 106, 139-152.		1