Mara Olivares-MarÃ-n

List of Publications by Year
in descending order

47 papers	2,200 citations	218381 26 h-index	243296 44 g-index
47 all docs	47 docs citations	47 times ranked	3119 citing authors

#	Article	IF	Citations
1	Cherry stones as precursor of activated carbons for supercapacitors. Materials Chemistry and Physics, 2009, 114, 323-327.	2.0	180
2	Novel lithium-based sorbents from fly ashes for CO2 capture at high temperatures. International Journal of Greenhouse Gas Control, 2010, 4, 623-629.	2.3	167
3	Preparation of activated carbon from cherry stones by chemical activation with ZnCl2. Applied Surface Science, 2006, 252, 5967-5971.	3.1	165
4	Modification of carbon screen-printed electrodes by adsorption of chemically synthesized Bi nanoparticles for the voltammetric stripping detection of Zn(II), Cd(II) and Pb(II). Talanta, 2009, 80, 631-635.	2.9	135
5	Development of adsorbents for CO₂ capture from waste materials: a review. , 2012, 2, 20-35.		120
6	CO2 adsorption performance of amino-functionalized SBA-15 under post-combustion conditions. International Journal of Greenhouse Gas Control, 2013, 17, 366-375.	2.3	107
7	Preparation of activated carbon from cherry stones by physical activation in air. Influence of the chemical carbonisation with H2SO4. Journal of Analytical and Applied Pyrolysis, 2012, 94, 131-137.	2.6	89
8	Low-cost disordered carbons for Li/S batteries: A high-performance carbon with dual porosity derived from cherry pits. Nano Research, 2018, 11, 89-100.	5.8	88
9	Improving the Performance of Biomass-Derived Carbons in Li-Ion Batteries by Controlling the Lithium Insertion Process. Journal of the Electrochemical Society, 2010, 157, A791.	1.3	84
10	Preparation of activated carbons from cherry stones by activation with potassium hydroxide. Applied Surface Science, 2006, 252, 5980-5983.	3.1	81
11	Preparation and textural characterisation of activated carbon from vine shoots (Vitis vinifera) by H3PO4â€"Chemical activation. Applied Surface Science, 2006, 252, 5961-5966.	3.1	69
12	Alternative lithium-ion battery using biomass-derived carbons as environmentally sustainable anode. Journal of Colloid and Interface Science, 2020, 573, 396-408.	5.0	67
13	Thermal behaviour of lignocellulosic material in the presence of phosphoric acid. Influence of the acid content in the initial solution. Carbon, 2006, 44, 2347-2350.	5.4	64
14	Porous Structure of Activated Carbon Prepared from Cherry Stones by Chemical Activation with Phosphoric Acid. Energy & Fuels, 2007, 21, 2942-2949.	2.5	57
15	Spatial Distributions of Discharged Products of Lithiumâ€"Oxygen Batteries Revealed by Synchrotron X-ray Transmission Microscopy. Nano Letters, 2015, 15, 6932-6938.	4.5	57
16	A Novel Cell Design for the Improved Stripping Voltammetric Detection of Zn(II), Cd(II), and Pb(II) on Commercial Screenâ€Printed Strips by Bismuth Codeposition in Stirred Solutions. Electroanalysis, 2008, 20, 2608-2613.	1.5	54
17	Study of the pore size distribution and fractal dimension of HNO3-treated activated carbons. Applied Surface Science, 2006, 252, 5972-5975.	3.1	50
18	The development of an activated carbon from cherry stones and its use in the removal of ochratoxin A from red wine. Food Control, 2009, 20, 298-303.	2.8	42

#	Article	IF	Citations
19	Preparation of a highly microporous carbon from a carpet material and its application as CO2 sorbent. Fuel Processing Technology, 2011, 92, 322-329.	3.7	42
20	Influence of morphology, porosity and crystal structure of CaCO3 precursors on the CO2 capture performance of CaO-derived sorbents. Chemical Engineering Journal, 2013, 217, 71-81.	6.6	42
21	Organic radicals for the enhancement of oxygen reduction reaction in Liâ€“O₂ batteries. Chemical Communications, 2015, 51, 17623-17626.	2.2	35
22	Operando UV-visible spectroscopy evidence of the reactions of iodide as redox mediator in Liâ€“O2 batteries. Electrochemistry Communications, 2015, 59, 24-27.	2.3	32
23	Use of small-amplitude oscillatory shear rheometry to study the flow properties of pure and potassium-doped Li2ZrO3 sorbents during the sorption of CO2 at high temperatures. Separation and Purification Technology, 2010, 73, 415-420.	3.9	31
24	Simple Method to Relate Experimental Pore Size Distribution and Discharge Capacity in Cathodes for Li/O2 Batteries. Journal of Physical Chemistry C, 2014, 118, 20772-20783.	1.5	31
25	The influence of the precursor and synthesis method on the CO2 capture capacity of carpet waste-based sorbents. Journal of Environmental Management, 2011, 92, 2810-2817.	3.8	30
26	Potassium Salts as Electrolyte Additives in Lithiumâ€“Oxygen Batteries. Journal of Physical Chemistry C, 2017, 121, 3822-3829.	1.5	28
27	Method for promoting in-situ hydrochar porosity in hydrothermal carbonization of almond shells with air activation. Journal of Supercritical Fluids, 2018, 138, 187-192.	1.6	26
28	Development of Activated Carbon Using Vine Shoots (Vitis Vinifera) and Its Use for Wine Treatment. Journal of Agricultural and Food Chemistry, 2005, 53, 644-650.	2.4	23
29	Development and characterization of carbon-honeycomb monoliths from kenaf natural fibers: A preliminary study. Industrial Crops and Products, 2012, 35, 105-110.	2.5	23
30	Effects of architecture on the electrochemistry of binder-free inverse opal carbons as Liâ€“air cathodes in an ionic liquid-based electrolyte. Journal of Materials Chemistry A, 2013, 1, 14270.	5.2	23
31	Influence of texture in hybrid carbon-phosphomolybdic acid materials on their performance as electrodes in supercapacitors. Carbon, 2017, 111, 74-82.	5.4	18
32	Development of regenerable sorbents from abundant wastes for capture of CO2. Energy Procedia, 2011, 4, 1118-1124.	1.8	16
33	Discharge products of ionic liquid-based Li-O2 batteries observed by energy dependent soft x-ray transmission microscopy. Journal of Power Sources, 2017, 359, 234-241.	4.0	16
34	A Stable Highâ€Capacity Lithiumâ€Ion Battery Using a Biomassâ€Derived Sulfurâ€Carbon Cathode and Lithiated Silicon Anode. ChemSusChem, 2021, 14, 3333-3343.	3.6	16
35	Influence of the operation conditions on CO2 capture by CaO-derived sorbents prepared from synthetic CaCO3. Chemosphere, 2013, 93, 2148-2158.	4.2	15
36	Massâ€transport Control on the Discharge Mechanism in Liâ€“O₂ Batteries Using Carbon Cathodes with Varied Porosity. ChemSusChem, 2015, 8, 3465-3471.	3.6	13

#	Article	IF	Citations
37	Adsorption of mercury from single and multicomponent metal systems on activated carbon developed from cherry stones. Adsorption, 2008, 14, 601-610.	1.4	12
38	Suppressing Irreversible Capacity in Low Cost Disordered Carbons for Li-Ion Batteries. Electrochemical and Solid-State Letters, 2009, 12, A167.	2.2	11
39	Combined Influence of Meso- and Macroporosity of Soft-Hard Templated Carbon Electrodes on the Performance of Li-O2 Cells with Different Configurations. Nanomaterials, 2019, 9, 810.	1.9	9
40	Collaborative online international learning: A way to develop studentsâ€™ engineering capabilities and awareness to become global citizens. International Journal of Mechanical Engineering Education, 2022, 50, 89-104.	0.6	8
41	Magnetic Behavior of Carbon Materials Made from Biomass by Fe-Assisted Hydrothermal Carbonization. Molecules, 2019, 24, 3996.	1.7	6
42	Preparation and characterization of ZrO2/Y2O3/Al2O3-based microstructured multilayer solâ€“gel coatings. Ceramics International, 2017, 43, 14210-14217.	2.3	5
43	Tailoring oxygen redox reactions in ionic liquid based Li/O2 batteries by means of the Li+ dopant concentration. Sustainable Energy and Fuels, 2018, 2, 118-124.	2.5	4
44	Preparation of Micropore-Containing Adsorbents from Kenaf Fibers and Their Use in Mercury Removal from Aqueous Solution. Journal of Natural Fibers, 2012, 9, 98-116.	1.7	3
45	Organic Polyradicals as Redox Mediators: Effect of Intramolecular Radical Interactions on Their Efficiency. ACS Applied Materials & Interfaces, 2020, 12, 45968-45975.	4.0	3
46	Studies of Lithium-Oxygen Battery Electrodes by Energy- Dependent Full-Field Transmission Soft X-Ray Microscopy. , 2017, , .		2
47	Hydrocarbonization. Does It Worth to Be Called a Pretreatment?. , 2019, , .		1