Cristina Botas

List of Publications by Year
in descending order

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29 papers	2,504 citations	279487 23 h-index	476904 29 g-index
29 all docs	29 docs citations	29 times ranked	4757 citing authors

#	Article	IF	Citations
1	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. Carbon, 2013, 65, 156-164.	5.4	345
2	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	2.0	333
3	Raman spectroscopy for the study of reduction mechanisms and optimization of conductivity in graphene oxide thin films. Journal of Materials Chemistry C, 2013, 1, 6905.	2.7	259
4	Critical temperatures in the synthesis of graphene-like materials by thermal exfoliationâ€“reduction of graphite oxide. Carbon, 2013, 52, 476-485.	5.4	236
5	The effect of the parent graphite on the structure of graphene oxide. Carbon, 2012, 50, 275-282.	5.4	188
6	Multimaterial 3D Printing of Graphene-Based Electrodes for Electrochemical Energy Storage Using Thermoresponsive Inks. ACS Applied Materials & Interfaces, 2017, 9, 37136-37145.	4.0	148
7	Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. Carbon, 2012, 50, 828-834.	5.4	129
8	Snâ€“ and SnO₂â€“graphene flexible foams suitable as binder-free anodes for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 13402-13410.	5.2	91
9	Optimization of the size and yield of graphene oxide sheets in the exfoliation step. Carbon, 2013, 63, 576-578.	5.4	77
10	Graphene-based technologies for energy applications, challenges and perspectives. 2D Materials, 2015, 2, 030204.	2.0	74
11	Reduced graphene oxide decorated with SnO2 nanoparticles as negative electrode for lithium ion capacitors. Electrochimica Acta, 2018, 284, 542-550.	2.6	73
12	Graphite oxide-based graphene materials as positive electrodes in vanadium redox flow batteries. Journal of Power Sources, 2013, 241, 349-354.	4.0	57
13	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. RSC Advances, 2012, 2, 9643.	1.7	51
14	Silicon-Reduced Graphene Oxide Self-Standing Composites Suitable as Binder-Free Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 28800-28808.	4.0	50
15	Graphene-based lithium ion capacitor with high gravimetric energy and power densities. Journal of Power Sources, 2017, 363, 422-427.	4.0	49
16	Highly packed grapheneâ€“CNT films as electrodes for aqueous supercapacitors with high volumetric performance. Journal of Materials Chemistry A, 2018, 6, 3667-3673.	5.2	43
17	Thermally reduced graphite and graphene oxides in VRFBs. Nano Energy, 2013, 2, 1322-1328.	8.2	37
18	Pathways towards high performance Naâ€“O₂ batteries: tailoring graphene aerogel cathode porosity & nanostructure. Journal of Materials Chemistry A, 2018, 6, 20778-20787.	5.2	36

#	Article	IF	Citations
19	Graphene oxide-carbon nanotubes aerogels with high sulfur loadings suitable as binder-free cathodes for high performance lithium sulfur batteries. Journal of Power Sources, 2019, 412, 408-415.	4.0	36
20	Self-organized amorphous titania nanotubes with deposited graphene film like a new heterostructured electrode for lithium ion batteries. Journal of Power Sources, 2014, 248, 886-893.	4.0	35
21	High density grapheneâ€“carbon nanosphere films for capacitive energy storage. Journal of Materials Chemistry A, 2019, 7, 6126-6133.	5.2	30
22	Hydrothermally reduced graphene oxide for the effective wrapping of sulfur particles showing long term stability as electrodes for Li-S batteries. Carbon, 2018, 139, 226-233.	5.4	27
23	Reconstruction of the carbon sp²network in graphene oxide by low-temperature reaction with CO. Journal of Materials Chemistry, 2012, 22, 51-56.	6.7	26
24	Comparative Study of Screen-Printed Electrodes Modified with Graphene Oxides Reduced by a Constant Current. Journal of the Electrochemical Society, 2015, 162, B282-B290.	1.3	17
25	Development and validation of new methods for the determination of melatonin and its oxidative metabolites by high performance liquid chromatography and capillary electrophoresis, using multivariate optimization. Journal of Chromatography A, 2010, 1217, 1368-1374.	1.8	15
26	Optimization by Factorial Design of a Capillary Electrophoresis Method for the Chiral Resolution and Determination of Zopiclone and Its Synthesis Precursor. Journal of Liquid Chromatography and Related Technologies, 2009, 32, 2654-2668.	0.5	13
27	Synthesis of activated carbons by chemical activation of new anthracene oil-based pitches and their optimization by response surface methodology. Fuel Processing Technology, 2011, 92, 1987-1992.	3.7	13
28	Macroporous carbon monoliths derived from phloroglucinolâ€“sucrose resins as binder-free thick electrodes for supercapacitors. Journal of Materials Science, 2017, 52, 11191-11200.	1.7	12
29	Multivariate Characterization of Milk Fat Fractions by Gas Chromatography. Food and Bioprocess Technology, 2013, 6, 2651-2658.	2.6	4