Miguel Ãngel MuÃ±oz-MÃ¡rquez

List of Publications by Year
in descending order

43 papers	1,592 citations	304743 22 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	2620 citing authors

#	Article	IF	Citations
1	Naâ€Ion Batteries for Large Scale Applications: A Review on Anode Materials and Solid Electrolyte Interphase Formation. Advanced Energy Materials, 2017, 7, 1700463.	19.5	261
2	Composition and Evolution of the Solid-Electrolyte Interphase in Na₂Ti₃O₇ Electrodes for Na-Ion Batteries: XPS and Auger Parameter Analysis. ACS Applied Materials & Interfaces, 2015, 7, 7801-7808.	8.0	164
3	Tailored synthesis of nanostructured WC/a-C coatings by dual magnetron sputtering. Surface and Coatings Technology, 2010, 204, 3490-3500.	4.8	110
4	Absence of Ni on the outer surface of Sr doped La₂NiO₄single crystals. Energy and Environmental Science, 2014, 7, 311-316.	30.8	85
5	Oxidation State and Local Structure of Ti-Based Additives in the Reactive Hydride Composite 2LiBH₄ + MgH₂. Journal of Physical Chemistry C, 2010, 114, 3309-3317.	3.1	66
6	Fluorineâ€Free Noble Salt Anion for Highâ€Performance Allâ€Solidâ€State Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1900763.	19.5	66
7	Surface structure of sphalerite studied by medium energy ion scattering and XPS. Surface Science, 2007, 601, 352-361.	1.9	56
8	Surface plasmon resonance and magnetism of thiol-capped gold nanoparticles. Nanotechnology, 2008, 19, 175701.	2.6	55
9	Unraveling the role of Ti in the stability of positive layered oxide electrodes for rechargeable Na-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14169-14179.	10.3	55
10	Structure of H₂Ti₃O₇and its evolution during sodium insertion as anode for Na ion batteries. Physical Chemistry Chemical Physics, 2015, 17, 6988-6994.	2.8	46
11	Direct observation of electronic conductivity transitions and solid electrolyte interphase stability of Na2Ti3O7 electrodes for Na-ion batteries. Journal of Power Sources, 2016, 330, 78-83.	7.8	42
12	Work Function Evolution in Li Anode Processing. Advanced Energy Materials, 2020, 10, 2000520.	19.5	40
13	Towards environmentally friendly Na-ion batteries: Moisture and water stability of Na2Ti3O7. Journal of Power Sources, 2016, 324, 378-387.	7.8	39
14	Electronic structure, magnetic properties, and microstructural analysis of thiol-functionalized Au nanoparticles: role of chemical and structural parameters in the ferromagnetic behaviour. Journal of Nanoparticle Research, 2008, 10, 179-192.	1.9	38
15	Nitrogen-doped carbons prepared from eutectic mixtures as metal-free oxygen reduction catalysts. Journal of Materials Chemistry A, 2016, 4, 478-488.	10.3	35
16	Toward Stable Electrode/Electrolyte Interface of P2-Layered Oxide for Rechargeable Na-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28885-28893.	8.0	35
17	Predicting the suitability of aqueous solutions of deep eutectic solvents for preparation of co-continuous porous carbons via spinodal decomposition processes. Carbon, 2017, 123, 536-547.	10.3	29
18	Medium-energy ion-scattering study of the structure of cleanTiO2(110)â^'(1Ã—1). Physical Review B, 2006, 73, .	3.2	28

#	Article	IF	Citations
19	Identification of the critical synthesis parameters for enhanced cycling stability of Na-ion anode material Na2Ti3O7. Acta Materialia, 2016, 104, 125-130.	7.9	27
20	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrodeâ€Electrolyte Interphase in Nonâ€Aqueous Naâ€Ion Batteries. Advanced Materials Interfaces, 2022, 9, .	3.7	27
21	Combined x-ray photoelectron spectroscopy and scanning electron microscopy studies of the LiBH4â€“MgH2 reactive hydride composite with and without a Ti-based additive. Journal of Applied Physics, 2011, 109, .	2.5	25
22	Evolution of the microstructure, chemical composition and magnetic behaviour during the synthesis of alkanethiol-capped gold nanoparticles. Acta Materialia, 2007, 55, 1723-1730.	7.9	23
23	Permanent magnetism in phosphine- and chlorine-capped gold: from clusters to nanoparticles. Journal of Nanoparticle Research, 2010, 12, 1307-1318.	1.9	21
24	Revealing In Situ Li Metal Anode Surface Evolution upon Exposure to CO₂ Using Ambient Pressure X-Ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2020, 12, 26607-26613.	8.0	21
25	The methanethiolate-induced pseudo-(100) reconstruction of Cu(111): A medium energy ion scattering structure study. Surface Science, 2005, 598, 209-217.	1.9	20
26	Local Structure and Stability of SEI in Graphite and ZFO Electrodes Probed by As K-Edge Absorption Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 4287-4295.	3.1	20
27	Surface and subsurface oxide formation on Ni(100) and Ni(111). Surface Science, 2004, 565, 1-13.	1.9	17
28	Influence of Using Metallic Na on the Interfacial and Transport Properties of Na-Ion Batteries. Batteries, 2017, 3, 16.	4.5	17
29	Direct Observation and Theory of Trajectory-Dependent Electronic Energy Losses in Medium-Energy Ion Scattering. Physical Review Letters, 2009, 102, 096103.	7.8	14
30	Alumina Nanofilms As Active Barriers for Polysulfides in High-Performance All-Solid-State Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 2463-2470.	5.1	14
31	Understanding the electrode â€“ electrolyte interphase of high voltage positive electrode Na4Co3(PO4)2P2O7 for rechargeable sodium-ion batteries. Electrochimica Acta, 2021, 372, 137846.	5.2	14
32	N-induced pseudo-(100) reconstruction of Cu(111): One layer or more?. Surface Science, 2005, 582, 97-109.	1.9	12
33	Role of the voltage window on the capacity retention of P2-Na2/3[Fe1/2Mn1/2]O2 cathode material for rechargeable sodium-ion batteries. Communications Chemistry, 2022, 5, .	4.5	12
34	Energy loss in medium-energy ion scattering: A combined theoretical and experimental study of the model system Y on Si(111). Physical Review B, 2005, 72, .	3.2	11
35	Magnetometry and electron paramagnetic resonance studies of phosphine- and thiol-capped gold nanoparticles. Journal of Applied Physics, 2010, 107, 064303.	2.5	11
36	Influence of the Capping Molecule on the Magnetic Behavior of Thiol-Capped Gold Nanoparticles. IEEE Transactions on Magnetics, 2008, 44, 2768-2771.	2.1	10

#	Article	IF	Citations
37	Structural studies at metallic surfaces and interfaces using MEIS. Current Applied Physics, 2003, 3, 19-24.	2.4	8
38	Surface relaxation in Cu(410)â€“O: A medium energy ion scattering study. Surface Science, 2010, 604, 788-796.	1.9	5
39	AC Magnetron Sputtering: An Industrial Approach for Highâ€Voltage and Highâ€Performance Thinâ€Film Cathodes for Liâ€Ion Batteries. Advanced Materials Interfaces, 2021, 8, 2002125.	3.7	4
40	Growth Parameters and Diffusion Barriers for Functional High-Voltage Thin-Film Batteries Based on Spinel LiNi0.5Mn1.5O4 Cathodes. ACS Applied Materials & Interfaces, 2022, , .	8.0	3
41	Influence of the Current Density on the Interfacial Reactivity of Layered Oxide Cathodes for Sodiumâ€Ion Batteries. Energy Technology, 2022, 10, .	3.8	3
42	Surface Evolution of Lithium Titanate upon Electrochemical Cycling Using a Combination of Surface Specific Characterization Techniques. Advanced Materials Interfaces, 2020, 7, 1902164.	3.7	2
43	Compositional and structural medium energy ion scattering study of the temperature mediated diffusion determination at the Co/V interface in Co/V/MgO(100). Surface Science, 2010, 604, 2177-2183.	1.9	1