Jordi Jacas Biendicho

List of Publications by Year
in descending order

39 papers	1,410 citations	448610 19 h-index	371746 37 g-index
41 all docs	41 docs citations	41 times ranked	1717 citing authors

#	Article	IF	Citations
1	High performance silicon electrode enabled by titanicone coating. Scientific Reports, 2022, 12, 137.	1.6	10
2	A High Conductivity 1D Ï€â€“d Conjugated Metalâ€“Organic Framework with Efficient Polysulfide Trappingâ€Diffusionâ€Catalysis in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2108835.	11.1	86
3	Robust Lithiumâ€“Sulfur Batteries Enabled by Highly Conductive WSe₂â€Based Superlattices with Tunable Interlayer Space. Advanced Functional Materials, 2022, 32, .	7.8	51
4	Enhanced Polysulfide Conversion with Highly Conductive and Electrocatalytic Iodineâ€Doped Bismuth Selenide Nanosheets in Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	7.8	49
5	Temperature-Driven Chemical Segregation in Co-Free Li-Rich-Layered Oxides and Its Influence on Electrochemical Performance. Chemistry of Materials, 2022, 34, 3637-3647.	3.2	8
6	Rational design of MXene/activated carbon/polyoxometalate triple hybrid electrodes with enhanced capacitance for organic-electrolyte supercapacitors. Journal of Colloid and Interface Science, 2022, 623, 947-961.	5.0	21
7	Phase Engineering of Defective Copper Selenide toward Robust Lithiumâ€“Sulfur Batteries. ACS Nano, 2022, 16, 11102-11114.	7.3	50
8	Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2003507.	10.2	91
9	Contact resistance stability and cation mixing in a Vulcan-based LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ slurry for semi-solid flow batteries. Dalton Transactions, 2021, 50, 6710-6717.	1.6	7
10	2Dâ€Organic Layered Materials: Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithiumâ€“Sulfur Batteries (Adv. Energy Mater. 5/2021). Advanced Energy Materials, 2021, 11, 2170022.	10.2	3
11	Tubular CoFeP@CN as a Mottâ€“Schottky Catalyst with Multiple Adsorption Sites for Robust Lithiumâˆ’Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100432.	10.2	125
12	Future Material Developments for Electric Vehicle Battery Cells Answering Growing Demands from an End-User Perspective. Energies, 2021, 14, 4223.	1.6	21
13	NbSe₂ Meets C₂N: A 2Dâ€2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultraâ€Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2101250.	10.2	89
14	ZnSe/N-Doped Carbon Nanoreactor with Multiple Adsorption Sites for Stable Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 15492-15504.	7.3	114
15	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. Nano Energy, 2019, 64, 103961.	8.2	78
16	A low temperature solid state reaction to produce hollow MnxFe3-xO4 nanoparticles as anode for lithium-ion batteries. Nano Energy, 2019, 66, 104199.	8.2	21
17	Combined High Catalytic Activity and Efficient Polar Tubular Nanostructure in Urchinâ€Like Metallic NiCo₂Se₄ for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2019, 29, 1903842.	7.8	153
18	Modelling the rheology and electrochemical performance of Li4Ti5O12 and LiNi1/3Co1/3Mn1/3O2 based suspensions for semi-solid flow batteries. Electrochimica Acta, 2019, 304, 146-157.	2.6	15

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19	In-Situ Neutron Studies of Electrodes for Li-Ion Batteries Using a Deuterated Electrolyte: LiCoO₂as a Case Study. Journal of the Electrochemical Society, 2018, 165, A793-A801.	1.3	17
20	A structural study of Ruddlesdenâ€“Popper phases Sr_{3â^’x}Y_x(Fe_{1.25}Ni_{0.75})O_{7â^’Î´} with <i>x</i> â‰ 0.75 by neutron powder diffraction and EXAFS/XANES spectroscopy. Journal of Materials Chemistry A, 2018, 6, 5313-5323.	5.2	8
21	Crystal Structure and Coordination of B-Cations in the Ruddlesdenâ€“Popper Phases Sr3â^’xPrx(Fe1.25Ni0.75)O7â^’Î´ (0 â‰ x â‰ 0.4). Inorganics, 2018, 6, 89.	1.2	3
22	The Fluorite-Like Phase Nd₅Mo₃O_{16Â±Î´} in the MoO₃â€“Nd₂O₃ System: Synthesis, Crystal Structure, and Conducting Properties. Inorganic Chemistry, 2018, 57, 7025-7035.	1.9	20
23	New Opportunities for Air Cathode Batteries; in-Situ Neutron Diffraction Measurements. Frontiers in Energy Research, 2018, 6, .	1.2	5
24	Investigation of Antisite Defect Formation and Chemical Expansion in LiNiPO₄ by in Situ Neutron Diffraction. Inorganic Chemistry, 2017, 56, 3657-3662.	1.9	15
25	Insights into the Performance of Co_{<i>x</i>}Ni_{1â€“<i>x</i>}TiO₃ Solid Solutions as Photocatalysts for Sun-Driven Water Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 40290-40297.	4.0	23
26	Static and Dynamic Studies on LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂â€Based Suspensions for Semiâ€Solid Flow Batteries. ChemSusChem, 2016, 9, 1938-1944.	3.6	33
27	Tuning the high-temperature properties of Pr₂NiO_{4+Î´}by simultaneous Pr- and Ni-cation replacement. RSC Advances, 2016, 6, 33951-33958.	1.7	8
28	A large format in operando wound cell for analysing the structural dynamics of lithium insertion materials. Journal of Power Sources, 2016, 336, 279-285.	4.0	16
29	Synthesis, structure and electrical properties of N-doped Li3VO4. Journal of Materials Chemistry A, 2016, 4, 1408-1413.	5.2	14
30	In situ investigation of commercial Ni(OH)₂and LaNi₅-based electrodes by neutron powder diffraction. Journal of Materials Research, 2015, 30, 407-416.	1.2	15
31	Crystal structure, thermal expansion and high-temperature electrical conductivity of A-site deficient La2â^’Co1+(Mg Nb1â^’)1â^’O6 double perovskites. Journal of Solid State Chemistry, 2015, 229, 243-251.	1.4	6
32	Crystal structure and high-temperature properties of the Ruddlesdenâ€“Popper phases Sr3â^’Y (Fe1.25Ni0.75)O7â^’ (0â‰xâ‰0.75). Journal of Solid State Chemistry, 2015, 227, 45-54.	1.4	13
33	New in-situ neutron diffraction cell for electrode materials. Journal of Power Sources, 2014, 248, 900-904.	4.0	42
34	Proton conductivity of hexagonal and cubic BaTi_{1â^’x}Sc_xO_{3â^’Î´} (0.1 â‰) Tj ETQq0 0 0 rgBT /Ove	1.6	23
35	Design of a new lithium ion battery test cell for in-situ neutron diffraction measurements. Journal of Power Sources, 2013, 226, 249-255.	4.0	62
36	Synthesis and characterization of perovskite-type SrxY1â^’xFeO3â^’Î´ (0.63â‰x<1.0) and Sr0.75Y0.25Fe1â^’yMyO3â^’Î´ (M=Cr, Mn, Ni), (y=0.2, 0.33, 0.5). Journal of Solid State Chemistry, 2013, 200, 30-38.	1.4	12

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37	Impedance characterisation of LiFePO4 ceramics. Solid State Ionics, 2012, 226, 41-52.	1.3	12
38	Pyrochlore to Fluorite Transition: The Y₂(Ti_{1â€“<i>x</i>}Zr_{<i>x</i>})₂O₇ (0.0 â‰) Tj ETQq0 0 0 rgBT /Overlo	3.4	54
39	Thermally-induced cation disorder in LiFePO4. Solid State Ionics, 2011, 203, 33-36.	1.3	16