Jean FranÃ§ois Colin

List of Publications by Year
in descending order

#	Article	IF	Citations
1	First Evidence of Manganeseâ€“Nickel Segregation and Densification upon Cycling in Li-Rich Layered Oxides for Lithium Batteries. Nano Letters, 2013, 13, 3857-3863.	9.1	411
2	Evolutions of Li_{1.2}Mn_{0.61}Ni_{0.18}Mg_{0.01}O₂ during the Initial Charge/Discharge Cycle Studied by Advanced Electron Microscopy. Chemistry of Materials, 2012, 24, 3558-3566.	6.7	226
3	New insight into the working mechanism of lithiumâ€“sulfur batteries: in situ and operando X-ray diffraction characterization. Chemical Communications, 2013, 49, 7899.	4.1	201
4	Lithium/Sulfur Batteries Upon Cycling: Structural Modifications and Species Quantification by In Situ and Operando Xâ€Ray Diffraction Spectroscopy. Advanced Energy Materials, 2015, 5, 1500165.	19.5	148
5	In situ investigations of a Li-rich Mnâ€“Ni layered oxide for Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 11316.	6.7	73
6	In situ neutron diffraction study of Li insertion in Li4Ti5O12. Electrochemistry Communications, 2010, 12, 804-807.	4.7	65
7	Study of lithiation mechanisms in silicon electrodes by Auger Electron Spectroscopy. Journal of Materials Chemistry A, 2013, 1, 4956.	10.3	62
8	Multiscale characterization of a lithium/sulfur battery by coupling operando X-ray tomography and spatially-resolved diffraction. Scientific Reports, 2017, 7, 2755.	3.3	47
9	Role of the composition of lithium-rich layered oxide materials on the voltage decay. Journal of Power Sources, 2015, 280, 687-694.	7.8	40
10	Electrochemical performances and gassing behavior of high surface area titanium niobium oxides. Journal of Materials Chemistry A, 2016, 4, 11531-11541.	10.3	37
11	In situ X-ray diffraction study of different graphites in a propylene carbonate based electrolyte at very positive potentials. Electrochimica Acta, 2010, 55, 4964-4969.	5.2	36
12	Circular in situneutron powder diffraction cell for study of reaction mechanism in electrode materials for Li-ion batteries. RSC Advances, 2013, 3, 757-763.	3.6	35
13	Synthesis and Characterization of the LiMnBO3â€“LiCoBO3 Solid Solution and Its Use as a Lithium-Ion Cathode Material. Inorganic Chemistry, 2015, 54, 5273-5279.	4.0	22
14	Environmental Screening of Electrode Materials for a Rechargeable Aluminum Battery with an AlCl3/EMIMCl Electrolyte. Materials, 2018, 11, 936.	2.9	19
15	Stabilization of Li-Rich Disordered Rocksalt Oxyfluoride Cathodes by Particle Surface Modification. ACS Applied Energy Materials, 2020, 3, 5937-5948.	5.1	19
16	Li-Rich Mn/Ni Layered Oxide as Electrode Material for Lithium Batteries: A ⁷Li MAS NMR Study Revealing Segregation into (Nanoscale) Domains with Highly Different Electrochemical Behaviors. Journal of Physical Chemistry C, 2016, 120, 19049-19063.	3.1	13
17	Submicronic LiNi1/3Mn1/3Co1/3O2 synthesized by co-precipitation for lithium ion batteries - Tailoring a classic process for enhanced energy and power density. Journal of Power Sources, 2018, 396, 527-532.	7.8	13
18	A structural and electrochemical study of Ni0.5TiOPO4 synthesized via modified solution route. Electrochimica Acta, 2012, 77, 244-249.	5.2	12

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19	Combining <i>operando</i> X-ray experiments and modelling to understand the heterogeneous lithiation of graphite electrodes. Journal of Materials Chemistry A, 2021, 9, 4281-4290.	10.3	9
20	Synthesis and electrochemical properties of Li(Fe0.5Co0.5)BO3. RSC Advances, 2015, 5, 72801-72804.	3.6	8
21	Influence of Electrolyte Additives on the Degradation of Li₂VO₂F Li-Rich Cathodes. Journal of Physical Chemistry C, 2020, 124, 12956-12967.	3.1	8
22	Influence of Al and F surface modifications on the sudden death effect of Si-Gr/Li1.2Ni0.2Mn0.6O2 Li-Ion cells. Electrochimica Acta, 2021, 400, 139419.	5.2	5
23	Two caesium vanadium hydrogenphosphates with tunnelled structures: Cs₂V₂O₃(PO₄)(HPO₄) and Cs₂[(VO)₃(HPO₄)₄(H₂O)]Â·H₂O. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, i12-i15.	0.4	2
24	Lithium-Rich Rock Salt Type Sulfides-Selenides (Li2TiSexS3âˆ’x): High Energy Cathode Materials for Lithium-Ion Batteries. Materials, 2022, 15, 3037.	2.9	2
25	Original pathway to selectively precipitate cobalt from an old battery solution thanks to imidazole linker. Separation and Purification Technology, 2022, 281, 119890.	7.9	1