Jean FranÃ§ois Colin

List of Publications by Year
in descending order

25 papers	1,514 citations	567281 15 h-index	580821 25 g-index
28 all docs	28 docs citations	28 times ranked	2635 citing authors

#	Article	IF	Citations
1	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
2	Lithium-Rich Rock Salt Type Sulfides-Selenides (Li2TiSexS3âˆ’x): High Energy Cathode Materials for Lithium-Ion Batteries. Materials, 2022, 15, 3037.	2.9	2
3	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
4	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
5	Stabilization of Li-Rich Disordered Rocksalt Oxyfluoride Cathodes by Particle Surface Modification. ACS Applied Energy Materials, 2020, 3, 5937-5948.	5.1	19
6	Influence of Electrolyte Additives on the Degradation of Li₂VO₂F Li-Rich Cathodes. Journal of Physical Chemistry C, 2020, 124, 12956-12967.	3.1	8
7	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
8	Environmental Screening of Electrode Materials for a Rechargeable Aluminum Battery with an AlCl3/EMIMCl Electrolyte. Materials, 2018, 11, 936.	2.9	19
9	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
10	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
11	Electrochemical performances and gassing behavior of high surface area titanium niobium oxides. Journal of Materials Chemistry A, 2016, 4, 11531-11541.	10.3	37
12	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
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	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
15	Synthesis and electrochemical properties of Li(Fe0.5Co0.5)BO3. RSC Advances, 2015, 5, 72801-72804.	3.6	8
16	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
17	Study of lithiation mechanisms in silicon electrodes by Auger Electron Spectroscopy. Journal of Materials Chemistry A, 2013, 1, 4956.	10.3	62
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	A structural and electrochemical study of Ni0.5TiOPO4 synthesized via modified solution route. Electrochimica Acta, 2012, 77, 244-249.	5.2	12
23	In situ neutron diffraction study of Li insertion in Li4Ti5O12. Electrochemistry Communications, 2010, 12, 804-807.	4.7	65
24	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
25	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