## Michel Menetrier

List of Publications by Year in descending order

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43 papers

3,392 citations

28 h-index 243625 44 g-index

44 all docs

44 docs citations

times ranked

44

4246 citing authors

#	Article	IF	CITATIONS
1	The insulator-metal transition upon lithium deintercalation from LiCoO2: electronic properties and 7Li NMR study. Journal of Materials Chemistry, 1999, 9, 1135-1140.	6.7	437
2	Reversible Oxygen Participation to the Redox Processes Revealed for Li <sub>1.20</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> . Journal of the Electrochemical Society, 2013, 160, A786-A792.	2.9	313
3	Different oxygen redox participation for bulk and surface: A possible global explanation for the cycling mechanism of Li1.20Mn0.54Co0.13Ni0.13O2. Journal of Power Sources, 2013, 236, 250-258.	7.8	280
4	Synthesis and characterization of boron-substituted carbons. Carbon, 2000, 38, 1461-1467.	10.3	212
5	On the structure of Li3Ti2(PO4)3. Journal of Materials Chemistry, 2002, 12, 2971-2978.	6.7	176
6	Li <sub>1.20</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> with Different Particle Sizes as Attractive Positive Electrode Materials for Lithium-Ion Batteries: Insights into Their Structure. Journal of Physical Chemistry C, 2012, 116, 13497-13506.	3.1	162
7	Relationship between Chemical Bonding Nature and Electrochemical Property of LiMn2O4 Spinel Oxides with Various Particle Sizes:  "Electrochemical Grafting―Concept. Journal of Physical Chemistry B, 1999, 103, 2100-2106.	2.6	137
8	Lithium secondary batteries working at very high temperature: Capacity fade and understanding of aging mechanisms. Journal of Power Sources, 2013, 236, 265-275.	7.8	134
9	Oxygen Vacancies and Intermediate Spin Trivalent Cobalt Ions in Lithium-Overstoichiometric LiCoO2. Chemistry of Materials, 2003, 15, 348-354.	6.7	132
10	6Li and 7Li NMR in the LiNi1-yCoyO2 Solid Solution (O .ltoreq. y .ltoreq. 1). Inorganic Chemistry, 1995, 34, 1773-1778.	4.0	122
11	Al-doped ZnO powdered materials: Al solubility limit and IR absorption properties. Solid State Sciences, 2009, 11, 1192-1197.	<b>3.</b> 2	121
12	Insight into the Atomic Structure of Cycled Lithium-Rich Layered Oxide Li <sub>1.20</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> Using HAADF STEM and Electron Nanodiffraction. Journal of Physical Chemistry C, 2015, 119, 75-83.	3.1	117
13	On the clathrate form of elemental silicon, Si136: preparation and characterisation of NaxSi136 (xâ†'0). Solid State Sciences, 2004, 6, 393-400.	3.2	102
14	Redox processes in LixNi1â^'yCoyO2 cobalt-rich phases. Journal of Materials Chemistry, 1997, 7, 2505-2511.	6.7	76
15	Structural Polymorphism in Li2CoSiO4 Intercalation Electrodes: A Combined Diffraction and NMR Study. Chemistry of Materials, 2010, 22, 1892-1900.	6.7	74
16	7Li MAS NMR study of electrochemically deintercalated LixNi0.30Co0.70O2 phases: evidence of electronic and ionic mobility, and redox processes. Journal of Materials Chemistry, 2001, 11, 594-603.	6.7	72
17	<sup>6</sup> Li MAS NMR Investigation of Electrochemical Lithiation of RuO <sub>2</sub> : Evidence for an Interfacial Storage Mechanism. Chemistry of Materials, 2009, 21, 856-861.	6.7	64
18	Elucidating the origins of phase transformation hysteresis during electrochemical cycling of Li–Sb electrodes. Journal of Materials Chemistry A, 2015, 3, 18928-18943.	10.3	48

#	Article	IF	Citations
19	Revealing Defects in Crystalline Lithium-Ion Battery Electrodes by Solid-State NMR: Applications to LiVPO <sub>4</sub> F. Chemistry of Materials, 2015, 27, 5212-5221.	6.7	47
20	New Spinel Cobalt Oxides, Potential Conductive Additives for the Positive Electrode of Niâ^'MH Batteries. Chemistry of Materials, 2006, 18, 5840-5851.	6.7	40
21	59Co and6,7Li MAS NMR in Polytypes O2 and O3 of LiCoO2. Journal of Physical Chemistry B, 2001, 105, 4166-4174.	2.6	39
22	n- and p-Type behaviour of the gold-substituted type-l clathrate, Ba8AuxSi46–x (xÂ=Â5.4 and 5.9). Comptes Rendus Chimie, 2005, 8, 39-46.	0.5	37
23	Sodium Ion Mobility in Na <sub><i>x</i></sub> CoO <sub>2</sub> (0.6 < <i>x</i> < 0.75) Cobaltites Studied by <sup>23</sup> Na MAS NMR. Inorganic Chemistry, 2009, 48, 7018-7025.	4.0	37
24	<sup>7</sup> Li NMR Knight Shifts in Liâ^'Sn Compounds: MAS NMR Measurements and Correlation with DFT Calculations. Journal of Physical Chemistry C, 2010, 114, 6749-6754.	3.1	33
25	Electrochemical characterization of Li10SnP2S12: An electrolyte or a negative electrode for solid state Li-ion batteries?. Solid State Ionics, 2016, 296, 18-25.	2.7	33
26	A brief overview on low sodium content silicides: are they mainly clathrates, fullerenes, intercalation compounds or Zintl phases?. Solid State Sciences, 2002, 4, 723-729.	3.2	31
27	6/7Li NMR study of the Li1-zNi1+zO2 phases. Magnetic Resonance in Chemistry, 2005, 43, 849-857.	1.9	30
28	Simulation of NMR Fermi Contact Shifts for Lithium Battery Materials: The Need for an Efficient Hybrid Functional Approach. Journal of Physical Chemistry C, 2012, 116, 17393-17402.	3.1	30
29	Structural investigation of oxygen insertion within the Ce2Sn2O7–Ce2Sn2O8 pyrochlore solid solution by means of in situ neutron diffraction experiments. Journal of Materials Chemistry, 1999, 9, 3131-3136.	6.7	24
30	59Co, 23Na NMR and electric field gradient calculations in the layered cobalt oxides NaCoO2 and HCoO2. Solid State Nuclear Magnetic Resonance, 2003, 23, 243-262.	2.3	22
31	Polydimethylsiloxane-based ORMOSIL microstructure: correlation with compressive behavior. Materials Letters, 2000, 42, 305-310.	2.6	20
32	Improvement by heating of the electronic conductivity of cobalt spinel phases, electrochemically synthesized in various electrolytes. Journal of Solid State Chemistry, 2009, 182, 1273-1280.	2.9	20
33	Effect of Thermal Treatment on the Electronic Conductivity Properties of Cobalt Spinel Phases Synthesized by Electro-Oxidation in Ternary Alkaline Electrolyte (KOH, LiOH, NaOH). Chemistry of Materials, 2008, 20, 6880-6888.	6.7	19
34	Multinuclear NMR Study of the Solid Electrolyte Interface on the Li-FeSn <sub>2</sub> Negative Electrodes for Li-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 2390-2398.	3.1	19
35	Structural and electrochemical studies of a new Tavorite composition: LiVPO <sub>4</sub> OH. Journal of Materials Chemistry A, 2016, 4, 11030-11045.	10.3	19
36	Iron Substitution in Lithium-Overstoichiometric "Li1.1CoO2― Combined57Fe Mössbauer and7Li NMR Spectroscopies Studies. Chemistry of Materials, 2005, 17, 4653-4659.	6.7	17

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37	DFT Modeling of NMR Contact Shift Mechanism in the Ideal LiNi <sub>2</sub> O <sub>4</sub> Spinel and Application to Thermally Treated Layered Li <sub>0.5</sub> NiO <sub>2</sub> . Chemistry of Materials, 2007, 19, 4166-4173.	6.7	17
38	DFT+U Calculations and XAS Study: Further Confirmation of the Presence of CoO5 Square-Based Pyramids with IS-Co3+ in Li-Overstoichiometric LiCoO2. Journal of Physical Chemistry C, 2013, 117, 26493-26500.	3.1	17
39	Reinvestigation of the magnetic behavior of O3–LiCoO2. Journal of Applied Physics, 2009, 106, .	2.5	16
40	Aggregation of the doping salt in B2S3–Li2S–Lil glasses, effect on the dynamical properties. Solid State Ionics, 1999, 116, 35-45.	2.7	15
41	X-ray photoelectron spectrum of glassy B2S3. Experimental and theoretical study. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 93.	1.7	14
42	Promising Nanometric Spinel Cobalt Oxides for Electrochemical Energy Storage: Investigation of Li and H Environments by NMR. Journal of Physical Chemistry C, 2012, 116, 26598-26607.	3.1	7
43	One-step precipitation of nanometric LiMO2 powders (M=Co, Fe) in alcoholic media. Solid State Ionics, 2010, 181, 623-630.	2.7	6