Damien Saurel

List of Publications by Year in descending order

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49 papers

3,232 citations

172386 29 h-index 206029 48 g-index

50 all docs 50 docs citations

50 times ranked

4170 citing authors

#	Article	IF	CITATIONS
1	Boosting the performance of soft carbon negative electrode for high power Na-ion batteries and Li-ion capacitors through a rational strategy of structural and morphological manipulation. Energy Storage Materials, 2022, 46, 417-430.	9.5	18
2	The triphylite NaFe1-yMnyPO4 solid solution (0 ≠y ≠1): Kinetic strain accommodation in NaxFe0.8Mn0.2PO4. Electrochimica Acta, 2022, 425, 140650.	2.6	7
3	Challenges of today for Na-based batteries of the future: From materials to cell metrics. Journal of Power Sources, 2021, 482, 228872.	4.0	169
4	Assessing the Reactivity of Hard Carbon Anodes: Linking Material Properties with Electrochemical Response Upon Sodium―and Lithium―on Storage. Batteries and Supercaps, 2021, 4, 960-977.	2.4	23
5	Elucidating cycling rate-dependent electrochemical strains in sodium iron phosphate cathodes for Na-ion batteries. Journal of Power Sources, 2021, 507, 230297.	4.0	14
6	Importance of Composite Electrolyte Processing to Improve the Kinetics and Energy Density of Li Metal Solid-State Batteries. ACS Applied Energy Materials, 2020, 3, 8344-8355.	2.5	37
7	Exploring Vinyl Polymers as Soft Carbon Precursors for M-Ion (M = Na, Li) Batteries and Hybrid Capacitors. Energies, 2020, 13, 4189.	1.6	5
8	A SAXS outlook on disordered carbonaceous materials for electrochemical energy storage. Energy Storage Materials, 2019, 21, 162-173.	9.5	95
9	Exploring the rate dependence of phase evolution in P2-type Na _{2/3} Mn _{0.8} Fe _{0.1} Ti _{0.1} O ₂ . Journal of Materials Chemistry A, 2019, 7, 12115-12125.	5.2	15
10	Water as an Effective Additive for Highâ€Energyâ€Density Na Metal Batteries? Studies in a Superconcentrated Ionic Liquid Electrolyte. ChemSusChem, 2019, 12, 1700-1711.	3.6	36
11	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. Materials Today, 2019, 23, 87-104.	8.3	537
12	The effect of cation chemistry on physicochemical behaviour of superconcentrated NaFSI based ionic liquid electrolytes and the implications for Na battery performance. Electrochimica Acta, 2018, 268, 94-100.	2.6	31
13	Structural and magnetic properties of frustrated GaxMn(3-x)O4(1.2Ââ‰ÂxÂ≠1.6) spinels. Journal of Alloys and Compounds, 2018, 748, 528-536.	2.8	8
14	From Charge Storage Mechanism to Performance: A Roadmap toward High Specific Energy Sodiumâ€ion Batteries through Carbon Anode Optimization. Advanced Energy Materials, 2018, 8, 1703268.	10.2	396
15	Stable cycling of NaFePO4 cathodes in high salt concentration ionic liquid electrolytes. Journal of Power Sources, 2018, 406, 70-80.	4.0	28
16	Impact of the Acid Treatment on Lignocellulosic Biomass Hard Carbon for Sodiumâ€lon Battery Anodes. ChemSusChem, 2018, 11, 3276-3285.	3.6	49
17	On the dynamics of transition metal migration and its impact on the performance of layered oxides for sodium-ion batteries: NaFeO ₂ as a case study. Journal of Materials Chemistry A, 2018, 6, 15132-15146.	5.2	64
18	Temperature effect on the synthesis of lignin-derived carbons for electrochemical energy storage applications. Journal of Power Sources, 2018, 397, 296-306.	4.0	34

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19	Rate dependence of the reaction mechanism in olivine NaFePO ₄ Na-ion cathode material. International Journal of Energy Research, 2018, 42, 3258-3265.	2.2	28
20	Small quaternary alkyl phosphonium bis(fluorosulfonyl)imide ionic liquid electrolytes for sodium-ion batteries with P2- and O3-Na2/3[Fe2/3Mn1/3]O2 cathode material. Journal of Power Sources, 2017, 349, 45-51.	4.0	40
21	Naâ€lon Batteries for Large Scale Applications: A Review on Anode Materials and Solid Electrolyte Interphase Formation. Advanced Energy Materials, 2017, 7, 1700463.	10.2	261
22	Origins of Bistability and Na Ion Mobility Difference in P2―and O3â€Na _{2/3} Fe _{2/3} Mn _{1/3} O ₂ Cathode Polymorphs. Advanced Energy Materials, 2017, 7, 1601477.	10.2	101
23	Investigation of sodium insertion–extraction in olivine Na _x FePO ₄ (0 ≠x ≠1) using first-principles calculations. Physical Chemistry Chemical Physics, 2016, 18, 13045-13051.	1.3	40
24	Thermoelectrics., 2016,, 155-204.		0
25	Local mechanical properties of graphene/polyethylene-based nanocomposites by depth-sensing indentation. European Polymer Journal, 2016, 74, 120-129.	2.6	22
26	Electrochemical characterization of NaFePO4 as positive electrode in aqueous sodium-ion batteries. Journal of Power Sources, 2015, 291, 40-45.	4.0	107
27	Synthesis and Electrochemistry Study of P2- and O3-phase Na2/3Fe1/2Mn1/2O2. Electrochimica Acta, 2015, 182, 1029-1036.	2.6	55
28	The mechanism of NaFePO ₄ (de)sodiation determined by in situ X-ray diffraction. Physical Chemistry Chemical Physics, 2014, 16, 8837-8842.	1.3	96
29	Considerations about the influence of the structural and electrochemical properties of carbonaceous materials on the behavior of lithium-ion capacitors. Journal of Power Sources, 2014, 266, 250-258.	4.0	64
30	GMR sensors and magnetic nanoparticles for immuno-chromatographic assays. Journal of Magnetism and Magnetic Materials, 2012, 324, 3495-3498.	1.0	75
31	Crystal chemistry of Na insertion/deinsertion in FePO4–NaFePO4. Journal of Materials Chemistry, 2012, 22, 17421.	6.7	189
32	Quantitative biomolecular sensing station based on magnetoresistive patterned arrays. Biosensors and Bioelectronics, 2012, 35, 206-212.	5.3	46
33	Evolution of the conducting phase topology at the percolation threshold in colossal magnetoresistance manganites: A magnetic small-angle neutron scattering study. Physical Review B, 2010, 82, .	1.1	14
34	Extraordinary magnetic field induced suppression of luminescence in Er3+-doped nano-glass-ceramics. Journal of Applied Physics, 2009, 106, 053502.	1,1	24
35	Effect of confinement on the Eu3+ emission band 5D0→7F0 in Eu3+-doped nano-glass-ceramics. Journal of Luminescence, 2009, 129, 1575-1577.	1.5	10
36	Er ³⁺ -doped Nanoparticles for Optical Detection of Magnetic Field. Nano Letters, 2009, 9, 721-724.	4.5	96

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37	Intragrain defects in polycrystalline silicon layers grown by aluminum-induced crystallization and epitaxy for thin-film solar cells. Journal of Applied Physics, 2009, 105, 114507.	1.1	47
38	The influence of single-walled carbon nanotube functionalization on the electronic properties of their polyaniline composites. Carbon, 2008, 46, 1909-1917.	5 . 4	64
39	Zeeman splitting and confinement effects in Er3+-doped nano-glass-ceramics in magnetic fields up to 50T. Applied Physics Letters, 2008, 92, 171101 Magnetic states and spin-glass properties in magnetic states and spin-glass properties a	1.5	23
40	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>0.67</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ca</mml:mi><mml:mn>0.33</mml:mn></mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:msub><mml:mi< td=""><td>1.1</td><td>24</td></mml:mi<></mml:msub></mml:mrow>	1.1	24
41	mathvariant="normal">O <mml:mn>3</mml:mn> : Macri Small-angle neutron scattering study of the steplike magnetic transformation inPr0.70Ca0.30MnO3. Physical Review B, 2007, 75, .	1.1	13
42	Magnetic field dependence of the magnetic phase separation inPr1â^'xCaxMnO3manganites studied by small-angle neutron scattering. Physical Review B, 2006, 73, .	1.1	31
43	Nonlinear effects and Joule heating in I-V curves in manganites. Journal of Applied Physics, 2005, 98, 023911.	1.1	51
44	Small-angle neutron-scattering study of the microphase separation in the Pr0.66Ca0.33MnO3 manganite. Physica B: Condensed Matter, 2004, 350, 51-54.	1.3	2
45	Magnetic field induced percolation in Pr0.67Ca0.33MnO3 by small angle magnetic neutron scattering. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1383-E1384.	1.0	O
46	Tailoring of ferromagnetic Pr[sub 0.85]Ca[sub 0.15]MnO[sub 3]â^•ferroelectric Ba[sub 0.6]Sr[sub 0.4]TiO[sub 3] superlattices for multiferroic properties. Applied Physics Letters, 2004, 85, 4424.	1.5	52
47	Neutron scattering evidence for magnetic-field-driven abrupt magnetic and structural transitions in a phase-separated manganite. Physical Review B, 2003, 68, .	1.1	43
48	Field dependence of the electronic phase separation in Pro. 67Cao. 33MnO3by small-angle magnetic neutron scattering. Physical Review B, 2003, 68, .	1.1	31
49	Stress-induced metallic behavior under magnetic field in Pr1â^'xCaxMnO3 (x=0.5 and 0.4) thin films (invited). Journal of Applied Physics, 2001, 89, 6612-6617.	1.1	12