Didier Blanchard

List of Publications by Year
in descending order

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Version: 2024-02-01

40	1,811	361045	315357
papers	citations	20 h-index	38 g-index

42	42	42	1718
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visualization of Dissolutionâ€Precipitation Processes in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	10.2	24
2	Effects of LiBF4 Addition on the Lithium-Ion Conductivity of LiBH4. Molecules, 2022, 27, 2187.	1.7	7
3	Layered double hydroxides as advanced tracks to promote ionic conductivity in metal borohydride. Materials Chemistry Frontiers, 2021, 5, 4989-4996.	3.2	6
4	Sr(NH3)8Cl2-Expanded Natural Graphite composite for thermochemical heat storage applications studied by in-situ neutron imaging. Journal of Energy Storage, 2021, 34, 102176.	3.9	10
5	Intrinsic kinetics in local modelling of thermochemical heat storage systems. Applied Thermal Engineering, 2021, 192, 116880.	3.0	6
6	Small-Angle Neutron Scattering Characterization of SrCl₂â€“ENG Composites for Thermochemical Heat Storage. ACS Applied Materials & Interfaces, 2021, 13, 34213-34226.	4.0	3
7	In operando Raman and optical study of lithium polysulfides dissolution in lithiumâ€“sulfur cells with carrageenan binder. JPhys Energy, 2021, 3, 044003.	2.3	4
8	Neutron radiography for local modelling of thermochemical heat storage reactors: Case study on SrCl2â€NH3. International Journal of Heat and Mass Transfer, 2021, 178, 121287.	2.5	4
9	Materials for hydrogen-based energy storage â€“ past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548.	2.8	518
10	Synthesis, Structure and NH3 Sorption Properties of Mixed Mg1-xMnx(NH3)6Cl2 Ammines. Energies, 2020, 13, 2746.	1.6	3
11	In-situ neutron imaging study of NH3 absorption and desorption in SrCl2 within a heat storage prototype reactor. Journal of Energy Storage, 2020, 29, 101388.	3.9	10
12	Full-cell hydride-based solid-state Li batteries for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7875-7887.	3.8	46
13	The influence of silica surface groups on the Li-ion conductivity of LiBH₄/SiO₂ nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 22456-22466.	1.3	24
14	Numerical Design of a Reactor for an Ammonia-SrCl2 Thermochemical Storage System. , 2019, , .		2
15	Lithium Conductivity and Ions Dynamics in LiBH₄/SiO₂ Solid Electrolytes Studied by Solid-State NMR and Quasi-Elastic Neutron Scattering and Applied in Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry C, 2018, 122, 15264-15275.	1.5	51
16	(Invited) Light Metal Hydride Nanocomposites As Room Temperature Solid Electrolytes. ECS Meeting Abstracts, 2018, , .	0.0	0
17	All-Solid-State Lithium-Sulfur Battery Based on a Nanoconfined LiBH₄Electrolyte. Journal of the Electrochemical Society, 2016, 163, A2029-A2034.	1.3	90
18	Complex hydrides as room-temperature solid electrolytes for rechargeable batteries. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	48

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19	Accelerated DFT-Based Design of Materials for Ammonia Storage. Chemistry of Materials, 2015, 27, 4552-4561.	3.2	18
20	Nanoconfined LiBH₄ as a Fast Lithium Ion Conductor. Advanced Functional Materials, 2015, 25, 184-192.	7.8	176
21	Solid solution bariumâ€“strontium chlorides with tunable ammonia desorption properties and superior storage capacity. Journal of Solid State Chemistry, 2015, 221, 32-36.	1.4	14
22	Ionic conductivity and the formation of cubic CaH2 in the LiBH4â€“Ca(BH4)2 composite. Journal of Solid State Chemistry, 2014, 211, 81-89.	1.4	18
23	Li-ion Conduction in the LiBH₄:LiI System from Density Functional Theory Calculations and Quasi-Elastic Neutron Scattering. Journal of Physical Chemistry C, 2013, 117, 9084-9091.	1.5	43
24	Analysis of the decomposition gases from Î± and Î²-Cd(BH4)2 synthesized by temperature controlled mechanical milling. Journal of Alloys and Compounds, 2013, 547, 76-80.	2.8	8
25	Effect of Heat Treatment on the Lithium Ion Conduction of the LiBH₄â€“LiI Solid Solution. Journal of Physical Chemistry C, 2013, 117, 3249-3257.	1.5	65
26	Hindered Rotational Energy Barriers of BH₄^{â€“} Tetrahedra in Î²-Mg(BH₄)₂ from Quasielastic Neutron Scattering and DFT Calculations. Journal of Physical Chemistry C, 2012, 116, 2013-2023.	1.5	43
27	The location of Ti containing phases after the completion of the NaAlH4+xTiCl3 milling process. Journal of Alloys and Compounds, 2012, 513, 597-605.	2.8	18
28	Ammonia dynamics in magnesium ammine from DFT and neutron scattering. Energy and Environmental Science, 2010, 3, 448.	15.6	47
29	Hydrogen Rotational and Translational Diffusion in Calcium Borohydride from Quasielastic Neutron Scattering and DFT Calculations. Journal of Physical Chemistry C, 2010, 114, 20249-20257.	1.5	23
30	Reversibility of Al/Ti Modified LiBH₄. Journal of Physical Chemistry C, 2009, 113, 14059-14066.	1.5	46
31	LiAlD4 with VCl3 additives: Influence of ball-milling energies. Journal of Alloys and Compounds, 2008, 458, 467-473.	2.8	6
32	Pressure-induced phase transitions of theLiAlD4system. Physical Review B, 2005, 72, .	1.1	20
33	Analytical Electron Microscopy Studies of Lithium Aluminum Hydrides with Ti- and V-Based Additives. Journal of Physical Chemistry B, 2005, 109, 4350-4356.	1.2	21
34	Electron microscopy studies of lithium aluminium hydrides. Journal of Alloys and Compounds, 2005, 395, 307-312.	2.8	23
35	Isothermal decomposition of LiAlD4 with and without additives. Journal of Alloys and Compounds, 2005, 404-406, 743-747.	2.8	34
36	Desorption of LiAlH4 with Ti- and V-based additives. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 108, 54-59.	1.7	113

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37	Synchrotron X-ray and neutron diffraction studies of NaAlH4 containing Ti additives. Journal of Alloys and Compounds, 2004, 376, 215-221.	2.8	155
38	Correlation between current density and layer structure for fine particle deposition in a laboratory electrostatic precipitator. IEEE Transactions on Industry Applications, 2002, 38, 832-839.	3.3	26
39	Drift velocity of fine particles estimated from fractional efficiency measurements in a laboratory-scaled electrostatic precipitator. IEEE Transactions on Industry Applications, 2002, 38, 852-857.	3.3	19
40	Effect of electro-aero-dynamically induced secondary flow on transport of fine particles in an electrostatic precipitator. Journal of Electrostatics, 2001, 51-52, 212-217.	1.0	19