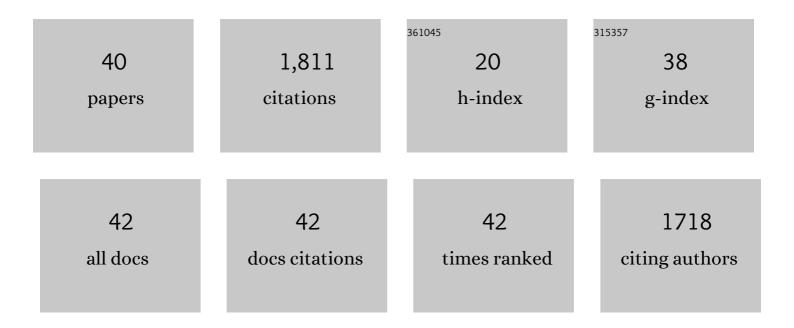
Didier Blanchard

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Materials for hydrogen-based energy storage – past, recent progress and future outlook. Journal of Alloys and Compounds, 2020, 827, 153548. | 2.8 | 518 |
| 2 | Nanoconfined LiBH ₄ as a Fast Lithium Ion Conductor. Advanced Functional Materials, 2015, 25, 184-192. | 7.8 | 176 |
| 3 | Synchrotron X-ray and neutron diffraction studies of NaAlH4 containing Ti additives. Journal of Alloys and Compounds, 2004, 376, 215-221. | 2.8 | 155 |
| 4 | 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 |
| 5 | All-Solid-State Lithium-Sulfur Battery Based on a Nanoconfined LiBH ₄ Electrolyte. Journal of the Electrochemical Society, 2016, 163, A2029-A2034. | 1.3 | 90 |
| 6 | Effect of Heat Treatment on the Lithium Ion Conduction of the LiBH ₄ –Lil Solid Solution. Journal of Physical Chemistry C, 2013, 117, 3249-3257. | 1.5 | 65 |
| 7 | Lithium Conductivity and Ions Dynamics in LiBH ₄ /SiO ₂ Solid Electrolytes Studied by Solid-State NMR and Quasi-Elastic Neutron Scattering and Applied in Lithium–Sulfur Batteries. Journal of Physical Chemistry C, 2018, 122, 15264-15275. | 1.5 | 51 |
| 8 | Complex hydrides as room-temperature solid electrolytes for rechargeable batteries. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 1.1 | 48 |
| 9 | Ammonia dynamics in magnesium ammine from DFT and neutron scattering. Energy and Environmental Science, 2010, 3, 448. | 15.6 | 47 |
| 10 | Reversibility of Al/Ti Modified LiBH ₄ . Journal of Physical Chemistry C, 2009, 113, 14059-14066. | 1.5 | 46 |
| 11 | Full-cell hydride-based solid-state Li batteries for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7875-7887. | 3.8 | 46 |
| 12 | Hindered Rotational Energy Barriers of BH ₄ [–] Tetrahedra in β-Mg(BH ₄) ₂ from Quasielastic Neutron Scattering and DFT Calculations. Journal of Physical Chemistry C, 2012, 116, 2013-2023. | 1.5 | 43 |
| 13 | Li-ion Conduction in the LiBH ₄ :Lil System from Density Functional Theory Calculations and Quasi-Elastic Neutron Scattering. Journal of Physical Chemistry C, 2013, 117, 9084-9091. | 1.5 | 43 |
| 14 | Isothermal decomposition of LiAlD4 with and without additives. Journal of Alloys and Compounds, 2005, 404-406, 743-747. | 2.8 | 34 |
| 15 | 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 |
| 16 | The influence of silica surface groups on the Li-ion conductivity of LiBH ₄ /SiO ₂ nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 22456-22466. | 1.3 | 24 |
| 17 | Visualization of Dissolutionâ€Precipitation Processes in Lithium–Sulfur Batteries. Advanced Energy Materials, 2022, 12, . | 10.2 | 24 |
| 18 | Electron microscopy studies of lithium aluminium hydrides. Journal of Alloys and Compounds, 2005, 395, 307-312. | 2.8 | 23 |

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| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Pressure-induced phase transitions of theLiAlD4system. Physical Review B, 2005, 72, . | 1.1 | 20 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | lonic conductivity and the formation of cubic CaH2 in the LiBH4–Ca(BH4)2 composite. Journal of Solid State Chemistry, 2014, 211, 81-89. | 1.4 | 18 |
| 26 | Accelerated DFT-Based Design of Materials for Ammonia Storage. Chemistry of Materials, 2015, 27, 4552-4561. | 3.2 | 18 |
| 27 | Solid solution barium–strontium chlorides with tunable ammonia desorption properties and superior storage capacity. Journal of Solid State Chemistry, 2015, 221, 32-36. | 1.4 | 14 |
| 28 | 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 |
| 29 | 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 |
| 30 | Analysis of the decomposition gases from α and β-Cd(BH4)2 synthesized by temperature controlled mechanical milling. Journal of Alloys and Compounds, 2013, 547, 76-80. | 2.8 | 8 |
| 31 | Effects of LiBF4 Addition on the Lithium-Ion Conductivity of LiBH4. Molecules, 2022, 27, 2187. | 1.7 | 7 |
| 32 | LiAlD4 with VCl3 additives: Influence of ball-milling energies. Journal of Alloys and Compounds, 2008, 458, 467-473. | 2.8 | 6 |
| 33 | Layered double hydroxides as advanced tracks to promote ionic conductivity in metal borohydride. Materials Chemistry Frontiers, 2021, 5, 4989-4996. | 3.2 | 6 |
| 34 | Intrinsic kinetics in local modelling of thermochemical heat storage systems. Applied Thermal Engineering, 2021, 192, 116880. | 3.0 | 6 |
| 35 | In operando Raman and optical study of lithium polysulfides dissolution in lithium–sulfur cells with carrageenan binder. JPhys Energy, 2021, 3, 044003. | 2.3 | 4 |
| 36 | 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 |

| # | Article | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Synthesis, Structure and NH3 Sorption Properties of Mixed Mg1-xMnx(NH3)6Cl2 Ammines. Energies, 2020, 13, 2746. | 1.6 | 3 |
| 38 | Small-Angle Neutron Scattering Characterization of SrCl ₂ –ENG Composites for Thermochemical Heat Storage. ACS Applied Materials & Interfaces, 2021, 13, 34213-34226. | 4.0 | 3 |
| 39 | Numerical Design of a Reactor for an Ammonia-SrCl2 Thermochemical Storage System. , 2019, , . | | 2 |
| 40 | (Invited) Light Metal Hydride Nanocomposites As Room Temperature Solid Electrolytes. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |