## Vincent Chevrier

## List of Publications by Year in descending order

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414414 279798 8,011 32 23 citations h-index papers

g-index 33 33 33 10416 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Isothermal Calorimetry Evaluation of Metallurgical Silicon as a Negative Electrode Material for Li-Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 030504.	2.9	11
2	Design and Testing of Prelithiated Full Cells with High Silicon Content. Journal of the Electrochemical Society, 2018, 165, A1129-A1136.	2.9	52
3	Design of Positive Electrodes for Li-Ion Full Cells with Silicon. Journal of the Electrochemical Society, 2018, 165, A2968-A2977.	2.9	10
4	A Trade-Off Between Simplicity and Robustness? Illustration on a Lattice-Gas Model of Swarming. Emergence, Complexity and Computation, 2018, , 239-259.	0.3	0
5	Studies of Si-Fe-C Electrode Materials Prepared by Combinatorial Sputter Deposition. Journal of the Electrochemical Society, 2017, 164, A498-A507.	2.9	7
6	Measurement of Li-Ion Battery Electrolyte Stability by Electrochemical Calorimetry. Journal of the Electrochemical Society, 2017, 164, A889-A896.	2.9	13
7	The Effect of Carbon Dioxide on the Cycle Life and Electrolyte Stability of Li-Ion Full Cells Containing Silicon Alloy. Journal of the Electrochemical Society, 2017, 164, A2527-A2533.	2.9	42
8	Studies of the Capacity Fade Mechanisms of LiCoO <sub>2</sub> /Si-Alloy: Graphite Cells. Journal of the Electrochemical Society, 2016, 163, A1146-A1156.	2.9	115
9	Understanding Anomalous Behavior in Coulombic Efficiency Measurements on Li-lon Batteries. Journal of the Electrochemical Society, 2015, 162, A278-A283.	2.9	171
10	Alloy Negative Electrodes for Li-Ion Batteries. Chemical Reviews, 2014, 114, 11444-11502.	47.7	1,675
11	Evaluating Si-Based Materials for Li-Ion Batteries in Commercially Relevant Negative Electrodes. Journal of the Electrochemical Society, 2014, 161, A783-A791.	2.9	151
12	First steps on asynchronous lattice-gas models with an application to a swarming rule. Natural Computing, 2013, 12, 551-560.	3.0	9
13	Python Materials Genomics (pymatgen): A robust, open-source python library for materials analysis. Computational Materials Science, 2013, 68, 314-319.	3.0	2,392
14	First-principles study of iron oxyfluorides and lithiation of FeOF. Physical Review B, 2013, 87, .	3.2	52
15	Combinatorial Studies of Si <sub>1â°'<i>x</i></sub> O <i><sub>x</sub></i> >a Potential Negative Electrode Material for Li-lon Battery Applications. Journal of the Electrochemical Society, 2013, 160, A1587-A1593.	2.9	<b>7</b> 3
16	In Situ Detection of Lithium Plating on Graphite Electrodes by Electrochemical Calorimetry. Journal of the Electrochemical Society, 2013, 160, A588-A594.	2.9	116
17	A Robustness Approach to Study Metastable Behaviours in a Lattice-Gas Model of Swarming. Lecture Notes in Computer Science, 2013, , 84-97.	1.3	6
18	Probing robustness of cellular automata through variations of asynchronous updating. Natural Computing, 2012, 11, 553-564.	3.0	31

#	Article	IF	CITATIONS
19	Crystal Structure, Physical Properties, and Electrochemistry of Copper Substituted LiFePO <sub>4</sub> Single Crystals. Chemistry of Materials, 2012, 24, 166-173.	6.7	31
20	First Steps on Asynchronous Lattice-Gas Models with an Application to a Swarming Rule. Lecture Notes in Computer Science, 2012, , 633-642.	1.3	4
21	Challenges for Na-ion Negative Electrodes. Journal of the Electrochemical Society, 2011, 158, A1011.	2.9	770
22	Voltage, stability and diffusion barrier differences between sodium-ion and lithium-ion intercalation materials. Energy and Environmental Science, 2011, 4, 3680.	30.8	1,236
23	xmins:mmi="http://www.w3.org/1998/Math/Math/MathML" display="inline"> <mml:mrow><mml:msub><mml:mrow /&gt;<mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:mrow </mml:msub></mml:mrow> and LiFePO <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>3.2</td><td>128</td></mml:math>	3.2	128
24	Activation Energies of Crystallization Events in Electrochemically Lithiated Silicon. Journal of the Electrochemical Society, 2011, 158, A1207.	2.9	24
25	First Principles Studies of Disordered Lithiated Silicon. Journal of the Electrochemical Society, 2010, 157, A392.	2.9	90
26	First principles study of Li–Si crystalline phases: Charge transfer, electronic structure, and lattice vibrations. Journal of Alloys and Compounds, 2010, 496, 25-36.	5.5	165
27	Hybrid density functional calculations of redox potentials and formation energies of transition metal compounds. Physical Review B, 2010, 82, .	3.2	298
28	First principles studies of silicon as a negative electrode material for lithium-ion batteries. Canadian Journal of Physics, 2009, 87, 625-632.	1.1	53
29	First Principles Model of Amorphous Silicon Lithiation. Journal of the Electrochemical Society, 2009, 156, A454.	2.9	177
30	A high throughput method using electron microprobe analysis for quantification of protein adsorption on surfaces. Surface Science, 2008, 602, 795-804.	1.9	7
31	Production and visualization of quaternary combinatorial thin films. Measurement Science and Technology, 2006, 17, 1399-1404.	2.6	29
32	Design of Amorphous Alloy Electrodes for Li-Ion Batteries. Electrochemical and Solid-State Letters, 2004, 7, A310.	2.2	60