

# Mickael Doll

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91  
papers

3,375  
citations

24  
h-index

57  
g-index

118  
ext. papers

3,739  
ext. citations

4.8  
avg. IF

5.02  
L-index

#	Paper	IF	Citations
91	Understanding the Light-Triggered Process of a Photo-Rechargeable Battery via Fluorescence Studies of Its Constitutional Photo- and Electroactive Components. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 2634-2641	3.8	1
90	Effect of Lithium Sulfate on the Catalytic Activity of Pt for Hydrogen Oxidation Reaction. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 024515	3.9	
89	A comparative study on the influence of the polymeric host for the operation of all-solid-state batteries at different temperatures. <i>Journal of Power Sources</i> , <b>2022</b> , 535, 231382	8.9	0
88	Pulse-assisted fluidization of nanoparticles: Case of lithium iron phosphate material. <i>Canadian Journal of Chemical Engineering</i> , <b>2021</b> , 99, 1824-1835	2.3	
87	Use of Solid-State NMR Spectroscopy for the Characterization of Molecular Structure and Dynamics in Solid Polymer and Hybrid Electrolytes. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
86	On the Importance of Li Metal Morphology on the Cycling of Lithium Metal Polymer Cells. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 040505	3.9	8
85	A Photophysical Study of Electronic Transfer from Battery Active Materials to an Organic Dye: Towards Developing an Operating Photobattery. <i>ECS Meeting Abstracts</i> , <b>2021</b> , MA2021-01, 41-41	0	
84	Assessing the Electrochemical Stability Window of NASICON-Type Solid Electrolytes. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	6
83	A Critical Review for an Accurate Electrochemical Stability Window Measurement of Solid Polymer and Composite Electrolytes. <i>Materials</i> , <b>2021</b> , 14,	3.5	9
82	Challenges in Solvent-Free Methods for Manufacturing Electrodes and Electrolytes for Lithium-Based Batteries. <i>Polymers</i> , <b>2021</b> , 13,	4.5	17
81	Thermal and Electrochemical Properties of Solid Polymer Electrolytes Prepared via Lithium Salt-Catalyzed Epoxide Ring Opening Polymerization. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1561	2.6	3
80	PEDOT assisted CNT self-supported electrodes for high energy and power density. <i>Electrochimica Acta</i> , <b>2020</b> , 349, 136418	6.7	3
79	Ultrasound assisted wet media milling synthesis of nanofiber-cage LiFePO <sub>4</sub> /C. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 68, 105177	8.9	3
78	Electrochemistry and transport properties of electrolytes modified with ferrocene redox-active ionic liquid additives. <i>Canadian Journal of Chemistry</i> , <b>2020</b> , 98, 554-563	0.9	2
77	Exploiting Materials to Their Full Potential, a Li-Ion Battery Electrode Formulation Optimization Study. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2935-2948	6.1	16
76	Melt-processed electrode for lithium ion battery. <i>Journal of Power Sources</i> , <b>2020</b> , 454, 227884	8.9	7
75	Toward More Sustainable Rechargeable Aqueous Batteries Using Plasma-Treated Cellulose-Based Li-Ion Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4728-4733	8.3	7

74	LiFePO <sub>4</sub> spray drying scale-up and carbon-cage for improved cyclability. <i>Journal of Power Sources</i> , <b>2020</b> , 462, 228103	8.9	12
73	Water content in solid polymer electrolytes: the lost knowledge. <i>Chemical Communications</i> , <b>2020</b> , 56, 10167-10170	5.8	13
72	Cross-Linked Polyacrylonitrile-Based Elastomer Used as Gel Polymer Electrolyte in Li-Ion Battery. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1099-1110	6.1	29
71	Synthesis and characterization of LiFe <sub>1-x</sub> MnxPO <sub>4</sub> (x = 0.25, 0.50, 0.75) lithium ion battery cathode synthesized via a melting process. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101116	7.8	3
70	Effect of Li <sup>+</sup> Affinity on Ionic Conductivities in Melt-Blended Nitrile Rubber/Polyether. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4943-4951	4.3	7
69	The Impact of Absorbed Solvent on the Performance of Solid Polymer Electrolytes for Use in Solid-State Lithium Batteries. <i>IScience</i> , <b>2020</b> , 23, 101597	6.1	22
68	Polyacrylonitrile-based rubber (HNBR) as a new potential elastomeric binder for lithium-ion battery electrodes. <i>Journal of Power Sources</i> , <b>2019</b> , 440, 227111	8.9	15
67	Experimental and thermodynamic study of Li-O and Li <sub>2</sub> O-P <sub>2</sub> O <sub>5</sub> systems. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2234-2241	2.3	4
66	Fe <sup>3+</sup> reduction during melt-synthesis of LiFePO <sub>4</sub> . <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2196-2210	2.3	5
65	Visualization of the secondary phase in LiFePO <sub>4</sub> ingots with advanced mapping techniques. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2218-2223	2.3	1
64	Application of a Commercially-Available Fluorine-Free Thermoplastic Elastomer as a Binder for High-Power Li-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1140-A1146	3.9	4
63	Melt-synthesis of LiFePO <sub>4</sub> over a metallic bath. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2287-2298	2.3	3
62	All-solid-state cells with Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /carbon nanotube composite electrodes prepared by infiltration with argyrodite sulfide-based solid electrolytes via liquid-phase processing. <i>Journal of Power Sources</i> , <b>2019</b> , 417, 125-131	8.9	22
61	Piloting melt synthesis and manufacturing processes to produce c-lifepo <sub>4</sub> : preface. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2189-2195	2.3	2
60	Designs of Experiments for Beginners: A Quick Start Guide for Application to Electrode Formulation. <i>Batteries</i> , <b>2019</b> , 5, 72	5.7	20
59	Chemical speciation and mapping of the Si in Si doped LFP ingot with synchrotron radiation technique. <i>Canadian Journal of Chemical Engineering</i> , <b>2019</b> , 97, 2211-2217	2.3	3
58	An Artificial Lithium Protective Layer that Enables the Use of Acetonitrile-Based Electrolytes in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 5072-5075	16.4	82
57	An Artificial Lithium Protective Layer that Enables the Use of Acetonitrile-Based Electrolytes in Lithium Metal Batteries. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 5166-5169	3.6	14

56	Crosslinker free thermally induced crosslinking of hydrogenated nitrile butadiene rubber. <i>Journal of Polymer Science Part A</i> , <b>2018</b> , 56, 1825-1833	2.5	11
55	Eco-friendly process toward collector- and binder-free, high-energy density electrodes for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1407-1416	2.6	8
54	Effect of composite electrode thickness on the electrochemical performances of all-solid-state li-ion batteries. <i>Journal of Electroceramics</i> , <b>2017</b> , 38, 189-196	1.5	14
53	Solid Fluoride Electrolytes and Their Composite with Carbon: Issues and Challenges for Rechargeable Solid State Fluoride-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24962-24970	3.8	32
52	Synthesis, Structure, and Electrochemical Properties of LiFeV2O7. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9292-9299	2.9	1
51	Electroactive ionic liquids based on 2,5-ditert-butyl-1,4-dimethoxybenzene and triflimide anion as redox shuttle for Li4Ti5O12/LiFePO4 lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 372, 212-220	8.9	7
50	LiFePO4 synthesized via melt synthesis using low-cost iron precursors. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 1821-1829	2.6	21
49	On the limitation of density functional theory (DFT) for the treatment of the anharmonicity in FCC metals. <i>Solid State Communications</i> , <b>2016</b> , 247, 78-81	1.6	1
48	Control of the LiFePO4 electrochemical properties using low-cost iron precursor in a melt process. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 3481-3490	2.6	16
47	Important Variation in Vibrational Properties of LiFePO4 and FePO4 Induced by Magnetism. <i>Scientific Reports</i> , <b>2016</b> , 6, 33033	4.9	7
46	Electrochemical and Transport Properties of Ions in Mixtures of Electroactive Ionic Liquid and Propylene Carbonate with a Lithium Salt for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5315-5325	3.8	14
45	Thermophysical properties of titanium and vanadium nitrides: Thermodynamically self-consistent approach coupled with density functional theory. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 662, 240-251	5.7	19
44	High-sensitivity piezoelectric perovskites for magnetoelectric composites. <i>Science and Technology of Advanced Materials</i> , <b>2015</b> , 16, 016001	7.1	19
43	Elaboration of controlled size Li1.5Al0.5Ge1.5(PO4)3 crystallites from glass-ceramics. <i>Solid State Ionics</i> , <b>2014</b> , 266, 44-50	3.3	33
42	The composite structure of mixed (Ag, Cu) V2O5 bronzes: Evidence for T dependant guest-species ordering and mobility. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 199, 84-89	3.3	2
41	Decoupling the effects of pressure and current in spark plasma sintering: Synthesis of CU0.9V2O5. <i>Solid State Ionics</i> , <b>2013</b> , 236, 5-10	3.3	7
40	Electrochemical performances of vitreous materials in the system Li2O/V2O5/P2O5 as electrode for lithium batteries. <i>Solid State Ionics</i> , <b>2013</b> , 237, 22-27	3.3	17
39	Electrical properties of ferroelectric BiMnO3/BiTiO3 under tailored synthesis and ceramic processing. <i>Phase Transitions</i> , <b>2013</b> , 86, 681-694	1.3	12

38	All-solid-state silver batteries assembled by Spark Plasma Sintering. <i>Solid State Ionics</i> , <b>2012</b> , 207, 57-63	3.3	9
37	Nanostructured BiMnO <sub>3</sub> + $\delta$ obtained at ambient pressure: analysis of its multiferroicity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9928		23
36	The Stone Age Revisited: Building a Monolithic Inorganic Lithium-Ion Battery. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2140-2147	15.6	86
35	Structural characterizations of As <sub>2</sub> Se <sub>3</sub> Te glasses. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 831-836	5.7	25
34	Rapidly synthesis of nanocrystalline MgIn <sub>2</sub> O <sub>4</sub> spinel using combustion and solid state chemistry. <i>Solid State Sciences</i> , <b>2011</b> , 13, 42-48	3.4	1
33	Nanopowders of ferroic oxides for magnetoelectric composites. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4189-4200	2.3	9
32	A New Approach to Develop Safe All-Inorganic Monolithic Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 179-183	21.8	116
31	Synthesis by Spark Plasma Sintering: A new way to obtain electrode materials for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 2274-2278	8.9	52
30	A comparative study of ZnS powders sintering by Hot Uniaxial Pressing (HUP) and Spark Plasma Sintering (SPS). <i>Optical Materials</i> , <b>2011</b> , 33, 706-712	3.3	37
29	Reaction kinetics during synthesis of Cu <sub>x</sub> V <sub>2</sub> O <sub>5</sub> and Ag <sub>y</sub> V <sub>2</sub> O <sub>5</sub> by spark plasma sintering. <i>Solid State Ionics</i> , <b>2011</b> , 182, 24-31	3.3	5
28	Spark Plasma Sintering: An Easy Way to Make Infrared Transparent Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2495-2498	3.8	16
27	Strain analysis by inversion of coherent Bragg X-ray diffraction intensity: the illumination problem. <i>Journal of Modern Optics</i> , <b>2010</b> , 57, 816-825	1.1	5
26	Microstructure and mechanical properties of high niobium containing TiAl alloys elaborated by spark plasma sintering. <i>Intermetallics</i> , <b>2010</b> , 18, 2312-2321	3.5	55
25	Ionic diffusion mastering using crystal-chemistry parameters: $\delta$ Cu <sub>1/2</sub> Ag <sub>1/2</sub> V <sub>2</sub> O <sub>5</sub> structure determination and comparison with refined $\delta$ Ag <sub>x</sub> V <sub>2</sub> O <sub>5</sub> and $\delta$ Cu <sub>x</sub> V <sub>2</sub> O <sub>5</sub> ones. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 1481-1491	3.3	7
24	Li-Driven Copper Extrusion/Re-injection in Various Cu-based Oxides and Sulfides. <i>Israel Journal of Chemistry</i> , <b>2008</b> , 48, 235-249	3.4	7
23	Structural behaviour of nearly stoichiometric ZrC under ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 2801-2805	1.2	38
22	Defect thermodynamic and transport properties of nanocrystalline Gd-doped ceria. <i>Ionics</i> , <b>2008</b> , 14, 33-36	3.7	10
21	Structural evolution of zirconium carbide under ion irradiation. <i>Journal of Nuclear Materials</i> , <b>2008</b> , 373, 123-129	3.3	76

20	Synthesis of nanosized zirconium carbide by a sol-gel route. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 2061-2067	6	87
19	Enhanced lithium storage and chemical diffusion in metal-LiF nanocomposites: Experimental and theoretical results. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	31
18	Microstructural Characterization of the Radiation Effects in ZrC, a Potential Material for Next Generation Nuclear Plants. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1043, 1		
17	Dendrite short-circuit and fuse effect on Li/polymer/Li cells. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 5334-5340	6.7	384
16	Influence of Microstructural Parameters on the Sintering of Transition Metal Carbides. <i>Advances in Science and Technology</i> , <b>2006</b> , 45, 629-632	0.1	1
15	Structural stability of ZnAl <sub>2</sub> O <sub>4</sub> spinel irradiated by low energy particles. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 250, 119-122	1.2	6
14	Layered Manganese Oxide Intergrowth Electrodes for Rechargeable Lithium Batteries. 1. Substitution with Co or Ni. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1036-1043	9.6	28
13	Layered Manganese Oxide Intergrowth Electrodes for Rechargeable Lithium Batteries. 2. Substitution with Al. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1044-1054	9.6	32
12	Lithium insertion chemistry of phosphate phases with the lipscombite structure. <i>Journal of Power Sources</i> , <b>2005</b> , 144, 208-213	8.9	17
11	Improved Li-Battery Electrolytes by Heterogeneous Doping of Nonaqueous Li-Salt Solutions. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A432		32
10	Investigation of layered intergrowth Li <sub>x</sub> MyMn <sub>1-x</sub> O <sub>2+z</sub> (M=Ni, Co, Al) compounds as positive electrodes for Li-ion batteries. <i>Solid State Ionics</i> , <b>2004</b> , 175, 225-228	3.3	8
9	A Reversible Lithium Intercalation Process in an ReO <sub>3</sub> -Type Structure PNB <sub>9</sub> O <sub>25</sub> . <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A391	3.9	41
8	Live Scanning Electron Microscope Observations of Dendritic Growth in Lithium/Polymer Cells. <i>Electrochemical and Solid-State Letters</i> , <b>2002</b> , 5, A286		183
7	Metal Oxides as Negative Electrode Materials in Li-Ion Cells. <i>Electrochemical and Solid-State Letters</i> , <b>2002</b> , 5, A115		115
6	On the Origin of the Extra Electrochemical Capacity Displayed by MO/Li Cells at Low Potential. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A627	3.9	1076
5	Development of Reliable Three-Electrode Impedance Measurements in Plastic Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A851	3.9	124
4	Impedance study of the Li <sup>+</sup> /electrolyte interface upon cycling. <i>Solid State Ionics</i> , <b>2000</b> , 135, 213-221	3.3	35
3	Hydrogen Depolarized Anodes with Liquid Anolyte: Proof of Concept. <i>Electrocatalysis</i> , 1	2.7	1

- 2 Extrusion of Polymer Blend Electrolytes for Solid-State Lithium Batteries: A Study of Polar Functional Groups. *ACS Applied Polymer Materials*, 4:3 2
- 1 Recent Developments in Polymeric Composites for Solid-State Batteries. *ACS Symposium Series*, 167-200 0.4