

Mallory P Gobet

List of Publications by Year in descending order

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52
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52
docs citations

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times ranked

4283
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorine-donating electrolytes enable highly reversible 5-V-class Li metal batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1156-1161.	7.1	512
2	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. Joule, 2018, 2, 927-937.	24.0	303
3	An Iodide-Based $\text{Li}_{7}\text{P}_{2}\text{S}_{8}\text{I}$ Superionic Conductor. Journal of the American Chemical Society, 2015, 137, 1384-1387.	13.7	298
4	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. ACS Nano, 2017, 11, 10462-10471.	14.6	283
5	A carbonate-free, sulfone-based electrolyte for high-voltage Li-ion batteries. Materials Today, 2018, 21, 341-353.	14.2	258
6	Solvation behavior of carbonate-based electrolytes in sodium ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 574-586.	2.8	152
7	Anion Solvation in Carbonate-Based Electrolytes. Journal of Physical Chemistry C, 2015, 119, 27255-27264.	3.1	121
8	Fundamental Limitations of Ionic Conductivity in Polymerized Ionic Liquids. Macromolecules, 2018, 51, 8637-8645.	4.8	103
9	Mechanism of Conductivity Relaxation in Liquid and Polymeric Electrolytes: Direct Link between Conductivity and Diffusivity. Journal of Physical Chemistry B, 2016, 120, 11074-11083.	2.6	101
10	Comparative Study of Ether-Based Electrolytes for Application in Lithium-Sulfur Battery. ACS Applied Materials & Interfaces, 2015, 7, 13859-13865.	8.0	95
11	New battery strategies with a polymer/ Al_2O_3 separator. Journal of Power Sources, 2014, 263, 52-58.	7.8	74
12	A simple approach for making a viable, safe, and high-performances lithium-sulfur battery. Journal of Power Sources, 2018, 377, 26-35.	7.8	67
13	Defect chemistry and electrical properties of garnet-type $\text{Li}_{7}\text{La}_{3}\text{Zr}_{2}\text{O}_{12}$. Physical Chemistry Chemical Physics, 2018, 20, 1447-1459.	2.8	64
14	Structural Evolution and Li Dynamics in Nanophase Li_3PS_4 by Solid-State and Pulsed-Field Gradient NMR. Chemistry of Materials, 2014, 26, 3558-3564.	6.7	60
15	Polyethylene glycol dimethyl ether (PEGDME)-based electrolyte for lithium metal battery. Journal of Power Sources, 2015, 299, 460-464.	7.8	52
16	Characteristics of glyme electrolytes for sodium battery: nuclear magnetic resonance and electrochemical study. Electrochimica Acta, 2017, 231, 223-229.	5.2	39
17	Anisotropic Ion Diffusion and Electrochemically Driven Transport in Nanostructured Block Copolymer Electrolytes. Journal of Physical Chemistry B, 2018, 122, 1537-1544.	2.6	39
18	Influence of Solvent on Ion Aggregation and Transport in $\text{PY}_{15}\text{TFSI}$ Ionic Liquid-Aprotic Solvent Mixtures. Journal of Physical Chemistry B, 2013, 117, 10581-10588.	2.6	35

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19	Structure and dynamics in yttrium-based molten rare earth alkali fluorides. <i>Journal of Chemical Physics</i> , 2013, 138, 184503.	3.0	33
20	Natural Abundance Oxygen-17 NMR Investigation of Lithium Ion Solvation in Glyme-based Electrolytes. <i>Electrochimica Acta</i> , 2016, 213, 606-612.	5.2	26
21	Carbon Composites for a High-Energy Lithium-Sulfur Battery with a Glyme-Based Electrolyte. <i>ChemElectroChem</i> , 2017, 4, 209-215.	3.4	26
22	Correlating Li ⁺ -Solvation Structure and its Electrochemical Reaction Kinetics with Sulfur in Subnano Confinement. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1739-1745.	4.6	26
23	Ethyl Difluoro(trimethylsilyl)acetate and Difluoro(trimethylsilyl)acetamides – Precursors of 3,3-Difluoroazetidiones. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 4147-4154.	2.4	24
24	Lithium diffusion in lithium nitride by pulsed-field gradient NMR. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13535.	2.8	24
25	Relevant Features of a Triethylene Glycol Dimethyl Ether-Based Electrolyte for Application in Lithium Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17085-17095.	8.0	24
26	An alternative route to single ion conductivity using multi-ionic salts. <i>Materials Horizons</i> , 2018, 5, 461-473.	12.2	24
27	The effect of salt content on the structure of γ -irradiated carrageenan systems: ²³ Na DQF NMR and rheological studies. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 307-312.	1.9	22
28	Enhanced Lithium Oxygen Battery Using a Glyme Electrolyte and Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16367-16375.	8.0	21
29	Distribution and mobility of phosphates and sodium ions in cheese by solid-state ³¹ P and double-quantum filtered ²³ Na NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 297-303.	1.9	20
30	Multinuclear magnetic resonance investigation of cation-anion and anion-solvent interactions in carbonate electrolytes. <i>Journal of Power Sources</i> , 2018, 399, 215-222.	7.8	19
31	Insight on the Li ₂ S electrochemical process in a composite configuration electrode. <i>New Journal of Chemistry</i> , 2016, 40, 2935-2943.	2.8	18
32	First-Principles Molecular Dynamics Simulation and Conductivity Measurements of a Molten xLi ₂ O-(1-x)B ₂ O ₃ system. <i>Journal of Chemical Physics</i> , 2017, 146, 064902.	2.8	17
33	A Rayleighian approach for modeling kinetics of ionic transport in polymeric media. <i>Journal of Chemical Physics</i> , 2017, 146, 064902.	3.0	12
34	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. <i>Joule</i> , 2018, 2, 2178.	24.0	12
35	Exploring the Use of Ionic Liquid Mixtures to Enhance the Performance of Dicationic Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2017, 164, H5150-H5159.	2.9	9
36	Self-diffusion coefficient of lithium in molten xLi ₂ O-(1-x)B ₂ O ₃ system using high-temperature PFG NMR. <i>Chemical Physics Letters</i> , 2012, 530, 61-63.	2.6	8

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37	Determination of aroma compound diffusion in model food systems: Comparison of macroscopic and microscopic methodologies. <i>Journal of Food Engineering</i> , 2010, 100, 557-566.	5.2	7
38	Transport Properties in Cryolitic Melts: NMR Measurements and Molecular Dynamics Calculations of Self-Diffusion Coefficients. <i>ECS Transactions</i> , 2010, 33, 679-684.	0.5	6
39	In Situ Experimental Approach of the Speciation in Molten Lanthanide and Actinide Fluorides Combining NMR, EXAFS and Molecular Dynamics. <i>ECS Transactions</i> , 2010, 33, 361-369.	0.5	5
40	Lithium chloride molten flux approach to $\text{Li}_2\text{MnO}_3:\text{LiMO}_2$ (M = Mn, Ni, Co) composite synthesis for lithium-ion battery cathode applications. <i>RSC Advances</i> , 2014, 4, 12018-12027.	3.6	5
41	Evaluating the Ion Transport of 1-Ethyl-3-Methylimidazolium Acetate Solutions Containing Carbohydrate Solutes. <i>Journal of the Electrochemical Society</i> , 2019, 166, H721-H729.	2.9	5
42	Solid-State ^{31}P NMR, a Relevant Method to Evaluate the Distribution of Phosphates in Semi-hard Cheeses. <i>Food Analytical Methods</i> , 2013, 6, 1544-1550.	2.6	4
43	Investigation of Fluoroacidity in Molten Fluorides by the Combination of High Temperature NMR and Molecular Dynamics. <i>ECS Transactions</i> , 2010, 33, 159-165.	0.5	3
44	Alkyl chain length effects of hydroxyl-functionalized imidazolium ionic liquids in the ionothermal synthesis of LiFePO_4 . <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 292-296.	1.6	2
45	Ion Solvation and the Search for a Correlation with Electrode Passivation. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1740, 49.	0.1	0
46	Towards Better Understanding of Molecular Solvent Behavior in Ionic Liquid-Biopolymer Mixtures. <i>ECS Transactions</i> , 2016, 75, 677-683.	0.5	0
47	The Impact of Carbohydrate Solutes on the Ionicity of 1-Ethyl-3-Methylimidazolium Acetate Ionic Liquid Solutions. <i>ECS Transactions</i> , 2018, 86, 279-286.	0.5	0
48	Cellulose, Cellobiose, and Glucose Cause Similar Decreases to Molar Conductivity and Drastically Different Increases to Dynamic Viscosity of 1-Ethyl-3-Methylimidazolium Acetate Based Solvents. <i>ECS Transactions</i> , 2018, 86, 257-268.	0.5	0