

# Lily A Robertson

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

377  
citations

686830

13  
h-index

794141

19  
g-index

23  
all docs

23  
docs citations

23  
times ranked

404  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating Factors Controlling Long-Term Stability of Radical Anions for Negative Charge Storage in Nonaqueous Redox Flow Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8116-8127.	1.5	33
2	Discovery of Energy Storage Molecular Materials Using Quantum Chemistry-Guided Multiobjective Bayesian Optimization. <i>Chemistry of Materials</i> , 2021, 33, 8133-8144.	3.2	32
3	New ionic organic compounds containing a linear tris(imidazolium) core and their thermotropic liquid crystal behaviour. <i>Liquid Crystals</i> , 2013, 40, 1067-1081.	0.9	29
4	Effect of counter-ion on the thermotropic liquid crystal behaviour of bis(alkyl)-tris(imidazolium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.9	28
5	Comparing calendar and cycle life stability of redox active organic molecules for nonaqueous redox flow batteries. <i>Journal of Power Sources</i> , 2018, 397, 214-222.	4.0	26
6	Experimental Protocols for Studying Organic Non-aqueous Redox Flow Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3932-3943.	8.8	25
7	Alkyl-bis(imidazolium) salts: a new amphiphile platform that forms thermotropic and non-aqueous lyotropic bicontinuous cubic phases. <i>Chemical Communications</i> , 2013, 49, 9407.	2.2	22
8	Restorable Neutralization of Poly(acrylic acid) Binders toward Balanced Processing Properties and Cycling Performance for Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57932-57940.	4.0	19
9	Self-Assembled Solute Networks in Crowded Electrolyte Solutions and Nanoconfinement of Charged Redoxmer Molecules. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10226-10236.	1.2	18
10	Crowded electrolytes containing redoxmers in different states of charge: Solution structure, properties, and fundamental limits on energy density. <i>Journal of Molecular Liquids</i> , 2021, 334, 116533.	2.3	18
11	Unexpected electrochemical behavior of an anolyte redoxmer in flow battery electrolytes: solvating cations help to fight against the thermodynamic kinetic dilemma. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13470-13479.	5.2	17
12	Experimental line broadening and line shift coefficients of the acetylene $\hat{1}/21+\hat{1}/23$ band pressurized by hydrogen and deuterium and comparison with calculations. <i>Journal of Molecular Spectroscopy</i> , 2009, 256, 17-27.	0.4	16
13	Realistic Ion Dynamics through Charge Renormalization in Nonaqueous Electrolytes. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3214-3220.	1.2	15
14	TEMPO allegro: liquid catholyte redoxmers for nonaqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16769-16775.	5.2	15
15	A chemical switch enabled autonomous two-stage crosslinking polymeric binder for high performance silicon anodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1380-1389.	5.2	15
16	Effect of an <i>n</i> -Alkoxy-2,4-hexadiene Polymerizable Tail System on the Mesogenic Properties and Cross-Linking of Mono-Imidazolium-Based Ionic Liquid Crystal Monomers. <i>ACS Macro Letters</i> , 2016, 5, 844-848.	2.3	10
17	Observation of Microheterogeneity in Highly Concentrated Nonaqueous Electrolyte Solutions. <i>Journal of the American Chemical Society</i> , 2019, 141, 8041-8046.	6.6	10
18	Competitive Pi-Stacking and H-Bond Piling Increase Solubility of Heterocyclic Redoxmers. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10409-10418.	1.2	10

#	ARTICLE	IF	CITATIONS
19	Fluorescence-Enabled Self-Reporting for Redox Flow Batteries. ACS Energy Letters, 2020, 5, 3062-3068.	8.8	9
20	Modified normal-phase ion-pair chromatographic methods for the facile separation and purification of imidazolium-based ionic compounds. Tetrahedron Letters, 2012, 53, 3456-3458.	0.7	8
21	Fluorination Enables Simultaneous Improvements of a Dialkoxybenzene-Based Redoxmer for Nonaqueous Redox Flow Batteries. ACS Applied Materials & Interfaces, 2022, 14, 28834-28841.	4.0	2
22	Self-Reporting Redoxmers: State of Health Metrics for Redox Flow Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 33-33.	0.0	0
23	Multiple charging and chemical stability of tripodal catholyte redoxmers. Chemical Physics Letters, 2022, 787, 139212.	1.2	0