Lily A Robertson

List of Publications by Year
in descending order

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	Multiple charging and chemical stability of tripodal catholyte redoxmers. Chemical Physics Letters, 2022, 787, 139212.	1.2	0
2	A chemical switch enabled autonomous two-stage crosslinking polymeric binder for high performance silicon anodes. Journal of Materials Chemistry A, 2022, 10, 1380-1389.	5.2	15
3	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
4	Self-Reporting Redoxmers: State of Health Metrics for Redox Flow Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 33-33.	0.0	0
5	Crowded electrolytes containing redoxmers in different states of charge: Solution structure, properties, and fundamental limits on energy density. Journal of Molecular Liquids, 2021, 334, 116533.	2.3	18
6	TEMPO allegro: liquid catholyte redoxmers for nonaqueous redox flow batteries. Journal of Materials Chemistry A, 2021, 9, 16769-16775.	5.2	15
7	Discovery of Energy Storage Molecular Materials Using Quantum Chemistry-Guided Multiobjective Bayesian Optimization. Chemistry of Materials, 2021, 33, 8133-8144.	3.2	32
8	Experimental Protocols for Studying Organic Non-aqueous Redox Flow Batteries. ACS Energy Letters, 2021, 6, 3932-3943.	8.8	25
9	Competitive Pi-Stacking and H-Bond Piling Increase Solubility of Heterocyclic Redoxmers. Journal of Physical Chemistry B, 2020, 124, 10409-10418.	1.2	10
10	Fluorescence-Enabled Self-Reporting for Redox Flow Batteries. ACS Energy Letters, 2020, 5, 3062-3068.	8.8	9
11	Self-Assembled Solute Networks in Crowded Electrolyte Solutions and Nanoconfinement of Charged Redoxmer Molecules. Journal of Physical Chemistry B, 2020, 124, 10226-10236.	1.2	18
12	Restorable Neutralization of Poly(acrylic acid) Binders toward Balanced Processing Properties and Cycling Performance for Silicon Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 57932-57940.	4.0	19
13	Realistic Ion Dynamics through Charge Renormalization in Nonaqueous Electrolytes. Journal of Physical Chemistry B, 2020, 124, 3214-3220.	1.2	15
14	Unexpected electrochemical behavior of an anolyte redoxmer in flow battery electrolytes: solvating cations help to fight against the thermodynamicâ€“kinetic dilemma. Journal of Materials Chemistry A, 2020, 8, 13470-13479.	5.2	17
15	Observation of Microheterogeneity in Highly Concentrated Nonaqueous Electrolyte Solutions. Journal of the American Chemical Society, 2019, 141, 8041-8046.	6.6	10
16	Elucidating Factors Controlling Long-Term Stability of Radical Anions for Negative Charge Storage in Nonaqueous Redox Flow Batteries. Journal of Physical Chemistry C, 2018, 122, 8116-8127.	1.5	33
17	Comparing calendar and cycle life stability of redox active organic molecules for nonaqueous redox flow batteries. Journal of Power Sources, 2018, 397, 214-222.	4.0	26
18	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. ACS Macro Letters, 2016, 5, 844-848.	2.3	10

#	Article	IF	Citations
19	Effect of counter-ion on the thermotropic liquid crystal behaviour of bis(alkyl)-tris(imidazolium) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	28
20	New ionic organic compounds containing a linear tris(imidazolium) core and their thermotropic liquid crystal behaviour. Liquid Crystals, 2013, 40, 1067-1081.	0.9	29
21	Alkyl-bis(imidazolium) salts: a new amphiphile platform that forms thermotropic and non-aqueous lyotropic bicontinuous cubic phases. Chemical Communications, 2013, 49, 9407.	2.2	22
22	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
23	Experimental line broadening and line shift coefficients of the acetylene Î½1+Î½3 band pressurized by hydrogen and deuterium and comparison with calculations. Journal of Molecular Spectroscopy, 2009, 256, 17-27.	0.4	16