

An aqueous, polymer-based redox-flow battery using new materials

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Citation Report

#	ARTICLE	IF	CITATIONS
9	Redox Species of Redox Flow Batteries: A Review. <i>Molecules</i> , 2015, 20, 20499-20517.	1.7	167
10	Synthesis and characterization of TEMPO- and viologen-polymers for water-based redox-flow batteries. <i>Polymer Chemistry</i> , 2015, 6, 7801-7811.	1.9	115
11	Plugging Into the Power of Polymers. <i>Plastics Engineering</i> , 2016, 72, 22-25.	0.1	0
12	Organic Redox Species in Aqueous Flow Batteries: Redox Potentials, Chemical Stability and Solubility. <i>Scientific Reports</i> , 2016, 6, 39101.	1.6	216
13	Rechargeable Mg/Li hybrid batteries: status and challenges. <i>Journal of Materials Research</i> , 2016, 31, 3125-3141.	1.2	92
14	Wasserbasierte Redox-Flow-Batterie mit hoher Kapazität und Leistung: das TEMPTMA/MV-System. <i>Angewandte Chemie</i> , 2016, 128, 14639-14643.	1.6	46
15	Computational screening of organic molecules as redox active species in redox flow batteries. <i>Current Applied Physics</i> , 2016, 16, 939-943.	1.1	20
16	Poly(boron-dipyromethene)-A Redox-Active Polymer Class for Polymer Redox-Flow Batteries. <i>Chemistry of Materials</i> , 2016, 28, 3401-3405.	3.2	105
17	A High-Current, Stable Nonaqueous Organic Redox Flow Battery. <i>ACS Energy Letters</i> , 2016, 1, 705-711.	8.8	202
18	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12528-12532.	7.2	238
19	Cost-driven materials selection criteria for redox flow battery electrolytes. <i>Journal of Power Sources</i> , 2016, 330, 261-272.	4.0	115
20	Redox Active Polymers as Soluble Nanomaterials for Energy Storage. <i>Accounts of Chemical Research</i> , 2016, 49, 2649-2657.	7.6	115
21	Impact of Backbone Tether Length and Structure on the Electrochemical Performance of Viologen Redox Active Polymers. <i>Chemistry of Materials</i> , 2016, 28, 7362-7374.	3.2	60
22	Evaluation of the catalytic effect of non-noble bismuth on the lead half-cell reaction for lead-based redox flow batteries. <i>RSC Advances</i> , 2016, 6, 56399-56405.	1.7	7
23	Highly water-soluble three-redox state organic dyes as bifunctional analytes. <i>Energy and Environmental Science</i> , 2016, 9, 3521-3530.	15.6	66
24	Polymer-Based Organic Batteries. <i>Chemical Reviews</i> , 2016, 116, 9438-9484.	23.0	919
25	Spin Density Distribution in a Nitroxide Biradical Containing ¹³ C-Enriched Acetylene Groups in the Bridge: DFT Calculations and EPR Investigation. <i>Applied Magnetic Resonance</i> , 2016, 47, 1057-1067.	0.6	10
26	Stable organic radical polymers: synthesis and applications. <i>Polymer Chemistry</i> , 2016, 7, 5589-5614.	1.9	123

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27	A symmetric organic-based nonaqueous redox flow battery and its state of charge diagnostics by FTIR. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5448-5456.	5.2	167
28	Porous carbon as a quasi-reference electrode in aqueous electrolytes. <i>Electrochimica Acta</i> , 2016, 222, 1800-1805.	2.6	31
29	Redox Active Colloids as Discrete Energy Storage Carriers. <i>Journal of the American Chemical Society</i> , 2016, 138, 13230-13237.	6.6	111
30	Oxocarbon Salts for Fast Rechargeable Batteries. <i>Angewandte Chemie</i> , 2016, 128, 12716-12720.	1.6	53
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34	Exploring Bio-inspired Quinone-Based Organic Redox Flow Batteries: A Combined Experimental and Computational Study. <i>CheM</i> , 2016, 1, 790-801.	5.8	203
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36	A biomimetic redox flow battery based on flavin mononucleotide. <i>Nature Communications</i> , 2016, 7, 13230.	5.8	272
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43	The rise of organic electrode materials for energy storage. <i>Chemical Society Reviews</i> , 2016, 45, 6345-6404.	18.7	840
44	The impact of pH on side reactions for aqueous redox flow batteries based on nitroxyl radical compounds. <i>Journal of Power Sources</i> , 2016, 321, 126-134.	4.0	76

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46	Poly(DCAQI): Synthesis and characterization of a new redox-active polymer. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1998-2003.	2.5	8
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56	Aqueous 2,2,6,6-Tetramethylpiperidine- <i>N</i> -oxyl Catholytes for a High-Capacity and High Current Density Oxygen-Insensitive Hybrid-Flow Battery. <i>ACS Energy Letters</i> , 2017, 2, 411-416.	8.8	139
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64	Synthesis and Electrochemical Study of a TCAA Derivative – A potential bipolar redox-active material. <i>Electrochimica Acta</i> , 2017, 228, 494-502.	2.6	13
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