

# Opportunities and Challenges for Organic Electrodes in

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Design strategies for organic carbonyl materials for energy storage: Small molecules, oligomers, polymers and supramolecular structures. <i>EcoMat</i> , 2020, 2, e12055.	11.9	24
2	Recent advances in developing organic electrode materials for multivalent rechargeable batteries. <i>Energy and Environmental Science</i> , 2020, 13, 3950-3992.	30.8	148
3	Design Strategies for High-Performance Aqueous Zn/Organic Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21293-21303.	13.8	253
4	Modelling of redox flow battery electrode processes at a range of length scales: a review. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5433-5468.	4.9	29
5	Through-Space Charge Modulation Overriding Substituent Effect: Rise of the Redox Potential at 3.35 V in a Lithium-Phenolate Stereoelectronic Isomer. <i>Chemistry of Materials</i> , 2020, 32, 9996-10006.	6.7	39
6	Xanthogen Polysulfides as a New Class of Electrode Material for Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001658.	19.5	36
7	Design Strategies for High-Performance Aqueous Zn/Organic Batteries. <i>Angewandte Chemie</i> , 2020, 132, 21477-21487.	2.0	29
8	A Versatile Capacity Balancer for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2001608.	19.5	18
9	A stable organic dye catholyte for long-life aqueous flow batteries. <i>Chemical Communications</i> , 2020, 56, 13824-13827.	4.1	14
10	Designing High Performance Organic Batteries. <i>Accounts of Chemical Research</i> , 2020, 53, 2636-2647.	15.6	156
11	Multi-electron redox asymmetric supercapacitors based on quinone-coupled viologen derivatives and Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene. <i>Materials Today Energy</i> , 2020, 18, 100532.	4.7	27
12	Electrochemically Active In Situ Crystalline Lithium-Organic Thin Films by ALD/MLD. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41557-41566.	8.0	21
13	100th Anniversary of Macromolecular Science Viewpoint: Soft Materials for Microbial Bioelectronics. <i>ACS Macro Letters</i> , 2020, 9, 1590-1603.	4.8	14
14	Emerging organic potassium-ion batteries: electrodes and electrolytes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15547-15574.	10.3	69
15	Investigation on the Carbonyl Redox of Polyimide Based on Bridged Dianhydride as Electrode in Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110525.	2.9	1
16	Organic-based active electrode materials for potassium batteries: status and perspectives. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17296-17325.	10.3	32
17	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18322-18333.	13.8	86
18	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. <i>Angewandte Chemie</i> , 2020, 132, 18478-18489.	2.0	36

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19	Playing with the p-Doping Mechanism to Lower the Carbon Loading in n-Type Insertion Organic Electrodes: First Feasibility Study with Binder-Free Composite Electrodes. Journal of the Electrochemical Society, 2020, 167, 070540.	2.9	7
20	A perspective on organic electrode materials and technologies for next generation batteries. Journal of Power Sources, 2021, 482, 228814.	7.8	140
21	Triazole-enabled small TEMPO cathodes for lithium-organic batteries. Energy Storage Materials, 2021, 35, 122-129.	18.0	17
22	In-situ/operando characterization techniques in lithium-ion batteries and beyond. Journal of Energy Chemistry, 2021, 59, 191-211.	12.9	64
23	Research Progress of High-Performance Organic Material Pyrene-4,5,9,10-tetraone in Secondary Batteries. ChemElectroChem, 2021, 8, 352-359.	3.4	25
24	Hydrogen bond chemistry in Fe <sub>4</sub> [Fe(CN) <sub>6</sub> ] <sub>3</sub> host for aqueous NH <sub>4</sub> <sup>+</sup> batteries. Chemical Engineering Journal, 2021, 421, 127759.	12.7	57
25	A strategy for designing low-cost, environment-friendly, high energy and power density sodium-ion full cells: Effect of extrinsic pseudocapacitance. Journal of Alloys and Compounds, 2021, 854, 157238.	5.5	13
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36	Emerging trends in anion storage materials for the capacitive and hybrid energy storage and beyond. Chemical Society Reviews, 2021, 50, 6734-6789.	38.1	93

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38	Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries. Chemical Communications, 2021, 57, 7810-7813.	4.1	26
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50	General Design Methodology for Organic Eutectic Electrolytes toward High-Energy-Density Redox Flow Batteries. Advanced Materials, 2021, 33, e2008560.	21.0	25
51	<i>m</i> -Phenylenediamine as a Building Block for Polyimide Battery Cathode Materials. ACS Applied Energy Materials, 2021, 4, 4465-4472.	5.1	21
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476	Phenazine-Integrated Conjugated Microporous Polymers for Modulating the Mechanics of Supercapacitor Electrodes. <i>Materials Advances</i> , 0, , .	5.4	0
477	Organic cathode materials for rechargeable magnesium-ion batteries: Fundamentals, recent advances, and approaches to optimization. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 4359-4389.	11.9	1
478	Reversible and high-density energy storage with polymers populated with bistable redox sites. <i>Polymer Journal</i> , 2024, 56, 127-144.	2.7	0
479	Ī-d conjugation regulates the cathode/electrolyte interface in all-solid-state lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2024, 12, 3967-3976.	10.3	1
480	Practical organic batteries: Concepts to realize high mass loading with high performance. <i>ChemSusChem</i> , 2024, 17, .	6.8	0
481	Interface Engineering on Constructing Physical and Chemical Stable <scp>Solidâ€State</scp> Electrolyte Toward Practical Lithium Batteries. <i>Energy and Environmental Materials</i> , 0, , .	12.8	1
482	Breaking boundaries: advancements in solid-state redox mediators for decoupled water electrolysis. <i>Journal of Materials Chemistry A</i> , 2024, 12, 4363-4382.	10.3	0
483	Challenge and Design Strategies of Polymer Organic Electrodes for Lithium–Ion Batteries. <i>Macromolecular Chemistry and Physics</i> , 2024, 225, .	2.2	0
484	Lithium Bis(fluorosulfonyl)imide for Stabilized Interphases on Conjugated Dicarboxylate Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 0, , .	8.0	0
485	Trilithium salt of tetrahydroxyanthraquinone: A high-voltage and stable organic cathode material for rechargeable lithium metal and lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2024, 481, 148447.	12.7	0
486	Molecular Engineering of Nâ€heteroaromatic Organic Cathode for Highâ€Voltage and Highly Stable Zinc Batteries. <i>Advanced Functional Materials</i> , 0, , .	14.9	0
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488	Organic Cathodes, a Path toward Future Sustainable Batteries: Mirage or Realistic Future?. <i>Chemistry of Materials</i> , 2024, 36, 1025-1040.	6.7	1
489	Design and Synthesis of Viologenâ€based Copolymers for High Performance Liâ€Dualâ€Ion Batteries. <i>ChemSusChem</i> , 2024, 17, .	6.8	0
490	A Layered Organic Cathode for High-Energy, Fast-Charging, and Long-Lasting Li-Ion Batteries. <i>ACS Central Science</i> , 2024, 10, 569-578.	11.3	2
491	Reliable Organic Carbonyl Electrode Materials Enabled by Electrolyte and Interfacial Chemistry Regulation. <i>Accounts of Chemical Research</i> , 2024, 57, 375-385.	15.6	0
492	Intermolecular ĪĪ stacking of oligomeric naphthalene cathodes facilitate high performance aluminum ion battery. <i>Chemical Engineering Journal</i> , 2024, 482, 148806.	12.7	0

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494	Ferrocene Appended Porphyrin-Based Bipolar Electrode Material for High-Performance Energy Storage. ChemSusChem, 0, , .	6.8	0
495	Electrospun perylene dianhydride electrodes with fine micro-nanostructures for high-performance lithium-organic batteries. New Journal of Chemistry, 2024, 48, 5120-5126.	2.8	0
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498	Exploring Organic Cathode Materials for Lithium-Ion Batteries through Fragment Bonding and Discharge Simulation. Journal of Physical Chemistry C, 2024, 128, 2304-2310.	3.1	0
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500	Phenothiazine Derivatives as Small-Molecule Organic Cathodes with Adjustable Dropout Voltage and Cycle Performance. Advanced Materials, 0, , .	21.0	0
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504	An electrospun three-layer nanofibrous membrane-based <i>in situ</i> gel separator for efficient lithium-organic batteries. Chemical Communications, 2024, 60, 3198-3201.	4.1	0
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514	Redox active viologen derivatives for aqueous and non-aqueous organic redox flow batteries applications. Journal of Industrial and Engineering Chemistry, 2024, , .	5.8	0
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517	Current Trends and Perspectives of Polymers in Batteries. Macromolecules, 2024, 57, 3013-3025.	4.8	0