

# Clean energy new deal for a sustainable world: from non to greener electrochemical storage devices

Energy and Environmental Science

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Porous LiMn <sub>2</sub> O <sub>4</sub> nanorods with durable high-rate capability for rechargeable Li-ion batteries. <i>Energy and Environmental Science</i> , 2011, 4, 3668.	15.6	264
2	A novel solid oxide redox flow battery for grid energy storage. <i>Energy and Environmental Science</i> , 2011, 4, 4942.	15.6	137
3	Scenario Prediction of Energy Demand and Development Status of Renewable Energy in Dongtan Area of Chongming Island. <i>Advanced Materials Research</i> , 0, 347-353, 3804-3809.	0.3	0
4	Powering up the Future: Radical Polymers for Battery Applications. <i>Advanced Materials</i> , 2012, 24, 6397-6409.	11.1	540
5	Electrochemical properties of crystallized dilithium squarate: insight from dispersion-corrected density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11398.	1.3	23
6	Effect of N-substitution in naphthalenediimides on the electrochemical performance of organic rechargeable batteries. <i>RSC Advances</i> , 2012, 2, 7968.	1.7	76
7	Energy storage characteristics of a new rechargeable solid oxide iron-air battery. <i>RSC Advances</i> , 2012, 2, 10163.	1.7	60
8	Sodium insertion in carboxylate based materials and their application in 3.6 V full sodium cells. <i>Energy and Environmental Science</i> , 2012, 5, 9632.	15.6	235
9	Seed-assisted synthesis of highly ordered TiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> core/shell arrays on carbon textiles for lithium-ion battery applications. <i>Energy and Environmental Science</i> , 2012, 5, 6559.	15.6	421
10	A membraneless hydrogen peroxide fuel cell using Prussian Blue as cathode material. <i>Energy and Environmental Science</i> , 2012, 5, 8225.	15.6	242
11	Synthesis and electrochemical studies of layer-structured metastable Li-LiVOPO <sub>4</sub> . <i>Journal of Materials Chemistry</i> , 2012, 22, 7206.	6.7	64
12	Triple-coaxial electrospun amorphous carbon nanotubes with hollow graphitic carbon nanospheres for high-performance Li ion batteries. <i>Energy and Environmental Science</i> , 2012, 5, 7898.	15.6	191
13	Synthesis and charge/discharge properties of a ferrocene-containing polytriphenylamine derivative as the cathode of a lithium ion battery. <i>Journal of Materials Chemistry</i> , 2012, 22, 22658.	6.7	59
14	Superior radical polymer cathode material with a two-electron process redox reaction promoted by graphene. <i>Energy and Environmental Science</i> , 2012, 5, 5221-5225.	15.6	241
15	Organic Electrode Materials for Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2012, 2, 742-769.	10.2	1,125
17	Redox-Active Metal-Centered Oxalato Phosphate Open Framework Cathode Materials for Lithium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5866-5870.	7.2	148
18	High-Potential Reversible Li Deintercalation in a Substituted Tetrahydroxybenzoquinone Dilithium Salt: An Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , 2012, 18, 8800-8812.	1.7	68
19	Nitroxide radical polymer/graphene nanocomposite as an improved cathode material for rechargeable lithium batteries. <i>Electrochimica Acta</i> , 2012, 72, 81-86.	2.6	45

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20	Thermal runaway caused fire and explosion of lithium ion battery. <i>Journal of Power Sources</i> , 2012, 208, 210-224.	4.0	2,052
21	Towards sustainable and versatile energy storage devices: an overview of organic electrode materials. <i>Energy and Environmental Science</i> , 2013, 6, 2280.	15.6	1,213
22	Ellagic acid – a novel organic electrode material for high capacity lithium ion batteries. <i>Chemical Communications</i> , 2013, 49, 7234.	2.2	80
23	Optimizing the electrochemical performance of water-soluble organic Li-ion battery electrodes. <i>Electrochemistry Communications</i> , 2013, 34, 174-176.	2.3	29
24	Facile synthesis of loaf-like ZnMn <sub>2</sub> O <sub>4</sub> nanorods and their excellent performance in Li-ion batteries. <i>Nanoscale</i> , 2013, 5, 2442.	2.8	176
25	Fused Heteroaromatic Organic Compounds for High-Power Electrodes of Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 600-605.	10.2	293
26	Understanding electrode materials of rechargeable lithium batteries via DFT calculations. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 256-272.	1.8	68
27	Organic Li <sub>4</sub> C <sub>8</sub> H <sub>2</sub> O <sub>6</sub> Nanosheets for Lithium-Ion Batteries. <i>Nano Letters</i> , 2013, 13, 4404-4409.	4.5	352
28	Facile synthesis of mesoporous Mn <sub>3</sub> O <sub>4</sub> nanotubes and their excellent performance for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10985.	5.2	114
29	Improving the cyclability and rate capability of carbon nanofiber anodes through in-site generation of SiO <sub>x</sub> -rich overlayers. <i>Electrochimica Acta</i> , 2013, 108, 196-202.	2.6	15
30	Polymer-Pendant Interactions in Poly(pyrrol-3-ylhydroquinone): A Solution for the Use of Conducting Polymers at Stable Conditions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23558-23567.	1.5	38
31	Lubricating a bright future: Lubrication contribution to energy saving and low carbon emission. <i>Science China Technological Sciences</i> , 2013, 56, 2888-2913.	2.0	84
32	Investigation of the Redox Chemistry of Isoindole-4,7-diones. <i>Journal of Physical Chemistry C</i> , 2013, 117, 894-901.	1.5	26
33	Increasing the Gravimetric Energy Density of Organic Based Secondary Battery Cathodes Using Small Radius Cations (Li <sup>+</sup> and Mg <sup>2+</sup> ). <i>Journal of the American Chemical Society</i> , 2013, 135, 14532-14535.	6.6	67
34	Experimental and theoretical studies of tetramethoxy-p-benzoquinone: infrared spectra, structural and lithium insertion properties. <i>RSC Advances</i> , 2013, 3, 19081.	1.7	21
35	Improving the electrochemical performance of organic Li-ion battery electrodes. <i>Chemical Communications</i> , 2013, 49, 1945.	2.2	85
36	Redox Cofactor from Biological Energy Transduction as Molecularly Tunable Energy-Storage Compound. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8322-8328.	7.2	147
37	A green –organic battery working as a fuel cell in case of emergency. <i>Energy and Environmental Science</i> , 2013, 6, 2124.	15.6	103

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38	Rationally Designed Hierarchical TiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> Hollow Nanostructures for Improved Lithium Ion Storage. <i>Advanced Energy Materials</i> , 2013, 3, 737-743.	10.2	296
39	An organic cathode material based on a polyimide/CNT nanocomposite for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6366.	5.2	197
40	Charge carriers in rechargeable batteries: Na ions vs. Li ions. <i>Energy and Environmental Science</i> , 2013, 6, 2067.	15.6	712
41	Application of quinonic cathode compounds for quasi-solid lithium batteries. <i>Journal of Power Sources</i> , 2013, 221, 186-190.	4.0	91
42	Poly[tris(thienylphenyl)amine] Derivatives as a Performance-Improved Cathode Material for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2021-A2026.	1.3	16
44	Facile synthesis of Li <sub>2</sub> C <sub>8</sub> H <sub>4</sub> O <sub>4</sub> "graphene composites as high-rate and sustainable anode materials for lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 59498-59502.	1.7	27
45	Nanostructured lithium titanate and lithium titanate/carbon nanocomposite as anode materials for advanced lithium-ion batteries. <i>Nanotechnology Reviews</i> , 2014, 3, .	2.6	17
46	A quinone-based oligomeric lithium salt for superior Li "organic batteries. <i>Energy and Environmental Science</i> , 2014, 7, 4077-4086.	15.6	259
47	Naphthalene Diimide Based Materials with Adjustable Redox Potentials: Evaluation for Organic Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 7151-7157.	3.2	141
48	Poly(exTTF): A Novel Redox "Active Polymer as Active Material for Li "Organic Batteries. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1367-1371.	2.0	36
49	Relating Electrochemistry of New Organic Materials for Batteries and Fundamental Understanding through DFT Calculations. <i>Advances in Science and Technology</i> , 0, , .	0.2	3
50	Mode selection of China's urban heating and its potential for reducing energy consumption and CO <sub>2</sub> emission. <i>Energy Policy</i> , 2014, 67, 756-764.	4.2	23
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58	Investigation of the Redox Chemistry of Anthraquinone Derivatives Using Density Functional Theory. Journal of Physical Chemistry A, 2014, 118, 8852-8860.	1.1	135
59	Benzenediacylates as organic battery electrode materials: Na versus Li. RSC Advances, 2014, 4, 38004-38011.	1.7	55
60	Li-ion storage and gas adsorption properties of porous polyimides (PIs). RSC Advances, 2014, 4, 7506.	1.7	91
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63	Hierarchical WO <sub>3</sub> @SnO <sub>2</sub> core-shell nanowire arrays on carbon cloth: a new class of anode for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 7367-7372.	5.2	84
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67	2,2'-Bis(3-hydroxy-1,4-naphthoquinone)/CMK-3 nanocomposite as cathode material for lithium-ion batteries. Inorganic Chemistry Frontiers, 2014, 1, 193-199.	3.0	79
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70	Organic Nanohybrids for Fast and Sustainable Energy Storage. Advanced Materials, 2014, 26, 2558-2565.	11.1	210
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72	Synthesis of Pendant Radical- and Ion-Containing Block Copolymers via Ring-Opening Metathesis Polymerization for Organic Resistive Memory. ACS Macro Letters, 2014, 3, 703-707.	2.3	73
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82	Recent Advances and Prospects of Cathode Materials for Sodium-Ion Batteries. Advanced Materials, 2015, 27, 5343-5364.	11.1	915
83	Supramolecular Polymerization Promoted In Situ Fabrication of Nitrogen-Doped Porous Graphene Sheets as Anode Materials for Li-Ion Batteries. Advanced Energy Materials, 2015, 5, 1500559.	10.2	133
84	A Rigid Naphthalenediimide Triangle for Organic Rechargeable Lithium-Ion Batteries. Advanced Materials, 2015, 27, 2907-2912.	11.1	145
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86	Mechanistic Studies of Transition Metal-Terephthalate Coordination Complexes upon Electrochemical Lithiation and Delithiation. Advanced Functional Materials, 2015, 25, 4859-4866.	7.8	60
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96	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage. , 2015, , 213-289.		6

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98	Lithium-ion batteries (LIBs) for medium- and large-scale energy storage: ., 2015, , 125-211.		10
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103	Perspectives in Lithium Batteries. , 2015, , 191-232.		3
104	Organic Cathode Materials for Rechargeable Batteries. <i>Green Energy and Technology</i> , 2015, , 637-671.	0.4	7
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107	Renewable Quinone-Based High-Performance Sodium-Ion Batteries. <i>Advanced Materials</i> , 2015, 27, 2348-2354.	4.1	208
108	Highly porous non-precious bimetallic electrocatalysts for efficient hydrogen evolution. <i>Nature Communications</i> , 2015, 6, 6567.	5.8	440
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111	Heavily n-Dopable Conjugated Redox Polymers with Ultrafast Energy Storage Capability. <i>Journal of the American Chemical Society</i> , 2015, 137, 4956-4959.	6.6	242
112	A rechargeable lithium/quinone battery using a commercial polymer electrolyte. <i>Electrochemistry Communications</i> , 2015, 55, 22-25.	2.3	33
113	Structures and properties of diradical compounds containing disulfide and nitroxide groups. <i>Synthetic Metals</i> , 2015, 208, 17-20.	2.1	0
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115	Flow Batteries: Current Status and Trends. <i>Chemical Reviews</i> , 2015, 115, 11533-11558.	23.0	932
116	High Energy Organic Cathode for Sodium Rechargeable Batteries. <i>Chemistry of Materials</i> , 2015, 27, 7258-7264.	3.2	160
117	Ab Initio Calculations of Open-Cell Voltage in Li-Ion Organic Radical Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23373-23378.	1.5	31
118	Designing high-voltage carbonyl-containing polycyclic aromatic hydrocarbon cathode materials for Li-ion batteries guided by Clar's theory. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19137-19143.	5.2	68
119	Review of Advanced Carbon-Supported Organic Electrode Materials for Lithium (Sodium)-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2393-A2405.	1.3	114
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128	Globalization and pollution: tele-connecting local primary PM <sub>2.5</sub> emissions to global consumption. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160380.	1.0	77
129	Organic polytriphenylamine derivative-based cathode with tailored potential and its electrochemical performances. <i>Electrochimica Acta</i> , 2016, 196, 440-449.	2.6	20
130	Metallopolyyne polymers with ferrocenyl pendant ligands as cathode-active materials for organic battery application. <i>Journal of Organometallic Chemistry</i> , 2016, 812, 51-55.	0.8	27
131	Three-Tier Hierarchical Clusters of Carbon-Coated $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Single Crystals as High-Power and High-Energy Anodes for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 91-97.	1.7	9
132	A green approach assembled multifunctional Ag/AgBr/TNF membrane for clean water production & disinfection of bacteria through utilizing visible light. <i>Applied Catalysis B: Environmental</i> , 2016, 196, 57-67.	10.8	58
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135	Perylenediimide dyes as a cheap and sustainable cathode for lithium ion batteries. <i>Materials Letters</i> , 2016, 175, 191-194.	1.3	33
136	Understanding the Size-Dependent Sodium Storage Properties of Na <sub>2</sub> C <sub>6</sub> O <sub>6</sub> -Based Organic Electrodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2016, 16, 3329-3334.	4.5	184
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138	Rechargeable Lithium Batteries with Electrodes of Small Organic Carbonyl Salts and Advanced Electrolytes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 5795-5804.	1.8	91
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145	Click-Incorporation of Radical/Ionic Sites into a Reactive Block Copolymer: A Facile and On-Demand Domain Functionalization Approach toward Organic Resistive Memory. <i>Macromolecular Rapid Communications</i> , 2016, 37, 53-59.	2.0	10
146	Investigation of Ice-Templated Porous Electrodes for Application in Organic Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23614-23623.	4.0	22
147	Enthalpic versus Entropic Contribution to the Quinone Formal Potential in a Polypyrrole-Based Conducting Redox Polymer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21178-21183.	1.5	17
148	A dual-ion battery using diamino-rubicene as anion-inserting positive electrode material. <i>Electrochemistry Communications</i> , 2016, 72, 64-68.	2.3	56
149	Power from nature: designing green battery materials from electroactive quinone derivatives and organic polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12370-12386.	5.2	161
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