

Suppressing singlet oxygen generation in lithium-ox

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Surface and catalyst driven singlet oxygen formation in Li-O ₂ cells. <i>Electrochimica Acta</i> , 2020, 362, 137175.	2.6	10
2	Singlet Oxygen in Lithium ⁺ Oxygen Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 286-293.	2.4	13
3	Mechanistic Understanding of Oxygen Electrodes in Rechargeable Multivalent Metal ⁺ Oxygen Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1588-1598.	2.4	6
4	Mechanism of mediated alkali peroxide oxidation and triplet versus singlet oxygen formation. <i>Nature Chemistry</i> , 2021, 13, 465-471.	6.6	41
5	Isotopic Depth Profiling of Discharge Products Identifies Reactive Interfaces in an Aprotic Li ⁺ O ₂ Battery with a Redox Mediator. <i>Journal of the American Chemical Society</i> , 2021, 143, 7394-7401.	6.6	29
6	The Potassium ⁺ Air Battery: Far from a Practical Reality?. <i>Accounts of Materials Research</i> , 2021, 2, 515-525.	5.9	17
7	Ambilaterality of Redox Mediators towards ¹ O ₂ in Li ⁺ O ₂ Batteries: Trap and Quencher. <i>Advanced Functional Materials</i> , 2021, 31, 2102442.	7.8	11
8	Singlet Oxygen in Electrochemical Cells: A Critical Review of Literature and Theory. <i>Chemical Reviews</i> , 2021, 121, 12445-12464.	23.0	48
9	Electronic properties of Ir ₃ Li and ultra-nanocrystalline lithium superoxide formation. <i>Nano Energy</i> , 2021, 90, 106549.	8.2	3
10	Understanding Lithium-Mediated Oxygen Reactions at the Au DMSO interface: Are We There?. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20762-20771.	1.5	7
11	Partial Disproportionation Gallium-Oxygen Reaction Boosts Lithium-Oxygen Batteries. <i>Energy Storage Materials</i> , 2021, 41, 475-484.	9.5	12
12	Catalytic redox mediators for non-aqueous Li-O ₂ battery. <i>Energy Storage Materials</i> , 2021, 43, 97-119.	9.5	24
13	Suppressing Singlet Oxygen Formation during the Charge Process of Li-O ₂ Batteries with a Co ₃ O ₄ Solid Catalyst Revealed by Operando Electron Paramagnetic Resonance. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10346-10352.	2.1	10
14	Progress and Prospects in Redox Mediators for Highly Reversible Lithium ⁺ Oxygen Batteries: A Minireview. <i>Energy & Fuels</i> , 2021, 35, 19302-19319.	2.5	10
15	RuFe Alloy Nanoparticle-Supported Mesoporous Carbon: Efficient Bifunctional Catalyst for Li-O ₂ and Zn ⁺ Air Batteries. <i>ACS Catalysis</i> , 2022, 12, 1718-1731.	5.5	33
16	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. <i>Science Advances</i> , 2022, 8, eabm1899.	4.7	26
17	Hunting the Culprits: Reactive Oxygen Species in Aprotic Lithium ⁺ Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1243-1255.	1.5	11
18	Decomposition pathway and stabilization of ether-based electrolytes in the discharge process of Li-O ₂ battery. <i>Journal of Energy Chemistry</i> , 2022, 69, 516-523.	7.1	20

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19	Vacancy-engineered CeO ₂ /Co heterostructure anchored on the nitrogen-doped porous carbon nanosheet arrays vertically grown on carbon cloth as an integrated cathode for the oxygen reduction reaction of rechargeable Zn-air battery. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9858-9868.	5.2	18
20	Redox mediators for high-performance lithium-oxygen batteries. <i>National Science Review</i> , 2022, 9, nwac040.	4.6	54
21	Threshold potentials for fast kinetics during mediated redox catalysis of insulators in Li-O ₂ and Li-S batteries. <i>Nature Catalysis</i> , 2022, 5, 193-201.	16.1	51
22	Redox Mediators for Faster Lithium Peroxide Oxidation in a Lithium-Oxygen Cell: A Scanning Electrochemical Microscopy Study. <i>ACS Applied Energy Materials</i> , 2022, 5, 3724-3733.	2.5	5
23	CoS ₂ Nanoparticles Anchored on MoS ₂ Nanorods As a Superior Bifunctional Electrocatalyst Boosting Li ₂ O ₂ Heteroepitaxial Growth for Rechargeable Li-O ₂ Batteries. <i>Small</i> , 2022, 18, e2105752.	5.2	20
24	A robust interphase via in-situ pre-reconfiguring lithium anode surface for long-term lithium-oxygen batteries. <i>Journal of Energy Chemistry</i> , 2022, 72, 186-194.	7.1	16
25	Modeling the multi-step discharge and charge reaction mechanisms of non-aqueous Li-O ₂ batteries. <i>Applied Energy</i> , 2022, 317, 119189.	5.1	5
26	The study of different redox mediators for competent Li-air batteries. <i>Journal of Power Sources</i> , 2022, 538, 231379.	4.0	10
27	Atomically dispersed transition metal-N ₄ doped graphene as a Li-O nucleation site in nonaqueous lithium-oxygen batteries. <i>Electrochimica Acta</i> , 2022, 422, 140554.	2.6	5
28	Semi-solid lithium/oxygen flow battery: an emerging, high-energy technology. <i>Current Opinion in Chemical Engineering</i> , 2022, 37, 100835.	3.8	6
29	Light-Assisted Li-O ₂ Batteries with Lowered Bias Voltages by Redox Mediators. <i>Small</i> , 2022, 18, .	5.2	13
30	Aprotic Lithium-Carbon Dioxide Batteries: Reaction Mechanism and Catalyst Design. <i>Chemical Record</i> , 2022, 22, .	2.9	3
31	A New Cathode Material for a Li-O ₂ Battery Based on Lithium Superoxide. <i>ACS Energy Letters</i> , 2022, 7, 2619-2626.	8.8	21
32	Quenching singlet oxygen via intersystem crossing for a stable Li-O ₂ battery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	20
33	Solvation chemistry of electrolytes for stable anodes of lithium metal batteries. <i>Nano Research</i> , 2023, 16, 8072-8081.	5.8	14
34	Metal-related electrocatalysts for Li-CO ₂ batteries: an overview of the fundamentals to explore future-oriented strategies. <i>Journal of Materials Chemistry A</i> , 2022, 10, 25406-25430.	5.2	12
35	Discovery of organic catalysts boosting lithium carbonate decomposition toward ambient air operational lithium-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 20464-20472.	5.2	5
36	Exclusive Solution Discharge in Li-O ₂ Batteries?. <i>ACS Energy Letters</i> , 2022, 7, 3112-3119.	8.8	8

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37	Novel Co-catalytic Activities of Solid and Liquid Phase Catalysts in High-Rate Li-Air Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	8
38	Acceleration of Singlet Oxygen Evolution by Superoxide Dismutase Mimetics in Lithium-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	8
39	The path toward practical Li-air batteries. <i>Joule</i> , 2022, 6, 2458-2473.	11.7	28
40	Operando Fluorescence Detection of Singlet Oxygen inside High-Performance Li-O ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2023, 127, 78-84.	1.5	3
41	Completely Eradicating Singlet Oxygen in Li-O ₂ Battery via Cobalt(II)-Porphyrin Complex-Catalyzed LiOH Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 846-853.	2.1	4
42	Edge-Site-Free and Topological-Defect-Rich Carbon Cathode for High-Performance Lithium-Oxygen Batteries. <i>Advanced Science</i> , 2023, 10, .	5.6	12
43	Enhanced Photoassisted Li-O ₂ Battery with Ce-UO ₆ Metal-Organic Framework Based Photocathodes. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	1
52	Effect of singlet oxygen on redox mediators in lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2023, 11, 16003-16008.	5.2	2