

Iodine-sulfur flow battery



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[Sulfur Iodide Paves the Way for Cheaper, 'Healable' Vehicle Batteries](#)

By adding iodine (I) to a solid-state lithium sulfur (Li-S) battery (SSLSB), scientists yielded vastly improved conductivity and a low melting point that promotes self-repair of interfaces.

[Ion-Selective Membrane-Free Dual Sulfur-Iodine Catholyte for ...](#)

Highly concentrated polysulfide- (PS) and iodide-based (I³-/I⁻) redox couples are promising active materials for redox flow battery applications owing to their high volumetric capacity.



[Polysulfide-based redox flow batteries with long life and low](#)

To exploit low-cost and high-capacity polysulfide flow batteries with industrial-relevant cycling stability, we develop a charge-reinforced ion-selective membrane to retain



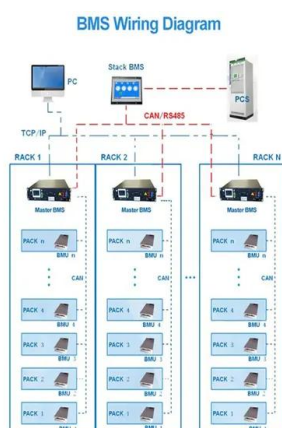
[Sulfur vacancy-rich MoS2 anchored oxidized graphene as advanced](#)

Aqueous polysulfide/iodide redox flow batteries (SIRFBs) have been identified as a promising solution for scalable energy storage, exhibiting high energy density and cost-effectiveness, ...



[A high-energy and low-cost polysulfide/iodide redox flow battery](#)

Redox flow batteries (RFBs) have been limited by low energy density and high cost. Here, we employ highly-soluble, inexpensive and reversible polysulfide and iodide species to demonstrate ...



[A Universal Strategy Toward Low-Cost Aqueous Sulfur-Iodine ...](#)

Herein, an aqueous sulfur-iodine chemistry that can be deployed in aqueous battery systems by employing water-in-bisalt (WiBS) electrolyte, sulfur composite anode, and iodine ...



[Air-Breathing Aqueous Sulfur Flow Battery for Ultralow-Cost Long](#)

In this work, we demonstrate an ambient-temperature, air-breathing, aqueous polysulfide flow battery that exploits sulfur's intrinsic advantages, and show using techno-economic analyses ...



[Toward an Inexpensive Aqueous Polysulfide-Polyiodide Redox Flow ...](#)

Motivated by the abundance and low cost of sulfur and iodine, herein, we explore the feasibility of an aqueous flow battery system using a polysulfide negative electrolyte and polyiodide ...



[Synergy of single atoms and sulfur vacancies for advanced](#)

Aqueous redox flow batteries (RFBs) incorporating polysulfide/iodide chemistries have received considerable attention due to their safety, high scalability, and cost-effectiveness.



[Stabilizing Iodine Redox Mediator Enables High-Performance ...](#)

As an efficient redox mediator, I- species can catalyze the sluggish sulfur conversion reaction of zinc-sulfur batteries, while the additional introduction of ammonia-oxidized lignin convoys ...

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