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# Quinone flow battery





## Overview

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What is an alkaline quinone flow battery?

Alkaline quinone flow battery. A redox-flow battery with an alloxazine-based organic electrolyte. A new Michael-reaction-resistant benzoquinone for aqueous organic redox flow batteries. *J. Electrochem. Soc.* 2017; 164: A600 High-performance aqueous organic flow battery with quinone-based redox couples at both electrodes. *J. Electrochem.*

Can Quinones be used for aqueous flow batteries?

Quinones for aqueous flow batteries have been the subject of intensive research since their recent debut in this application.

What are quinone-based aqueous organic redox flow batteries (aqrfb's)?

The emergence of quinone-based aqueous organic redox flow batteries (AQRFBs) represents an exciting advancement in electrochemical energy storage systems, particularly for grid-scale applications. By.

Are liquid Quinones suitable for redox flow batteries?

This suggests that these quinones possess favorable fluidic properties, which can be advantageous for their application in redox flow batteries. Furthermore, the graph also compares the viscosity of liquid quinones with different supporting electrolytes.



## Quinone flow battery



### [Alkaline Quinone Flow Battery with Long ...](#)

This work demonstrates a new, organic redox-flow battery (RFB) that outlives its predecessors, offering the longest-lived high-performance organic flow battery to date. It appears to be the first ...

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### [Quinones for redox flow batteries](#)

Quinone chemistries Ideally, the redox flow battery utilizes quinones on both sides of the battery as shown in Figure 1. The RFB utilizes an oxidized version of one quinone and the ...

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### [A Water-Miscible Quinone Flow Battery with High ...](#)

A water-miscible anthraquinone with polyethylene glycol (PEG)-based solubilizing groups is introduced as the redox-active molecule in a negative electrolyte (negolyte) for ...

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### [Quinones for Aqueous Organic Redox Flow ...](#)

The emergence of quinone-based aqueous organic redox flow batteries (AQRFBs) represents an exciting advancement in electrochemical energy storage systems, particularly for grid-scale applications. By



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### [Quinones for Aqueous Organic Redox Flow Battery: A ...](#)

The emergence of quinone-based aqueous organic redox flow batteries (AQRFBs) represents an exciting advancement in electrochemical energy storage systems, particularly ...

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### [Alkaline Quinone Flow Battery with Long Lifetime at pH 12](#)

This work demonstrates a new, organic redox-flow battery (RFB) that outlives its predecessors, offering the longest-lived high-performance organic flow battery to date. It ...

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### **Technology**

Unlike lithium-ion batteries, the quinone flow battery is not adversely affected by deep discharge to extremely low states of charge. Other lifetime extension strategies include slightly restricting the depth of discharge of the battery, ...

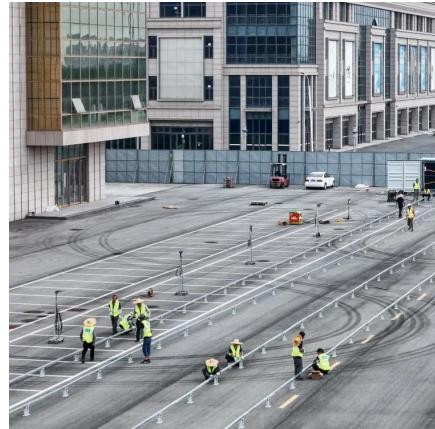
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### [Alkaline quinone flow battery , Science](#)

Storage of photovoltaic and wind electricity in batteries could solve the mismatch problem between the intermittent supply of these renewable resources and variable demand. ...

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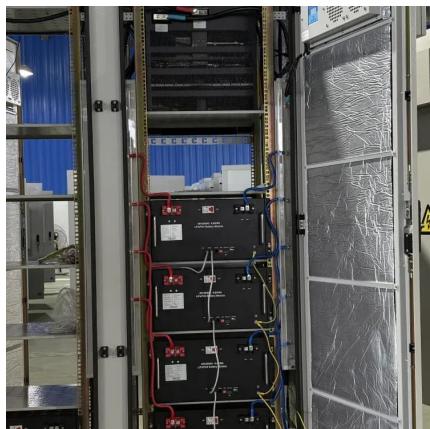
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## [Alkaline Quinone Flow Battery with Long Lifetime at pH 12](#)

We demonstrate a long-lifetime, aqueous redox-flow battery that can operate at a pH as low as 12 while maintaining an open-circuit voltage of over 1 V...

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## **Computational design of quinone electrolytes for redox flow batteries**

These quinone molecules can attain low solvation-free energy and high HOMO-LUMO gap simultaneously, and thus can be used as candidate materials for quinone-based ...

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## [Alkaline quinone flow battery , Science](#)

Storage of photovoltaic and wind electricity in batteries could solve the mismatch problem between the intermittent supply of these renewable resources and variable demand. Flow batteries permit more ...

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## [Computational design of quinone electrolytes ...](#)

These quinone molecules can attain low solvation-free energy and high HOMO-LUMO gap simultaneously, and thus can be used as candidate materials for quinone-based flow batteries for experimental ...

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