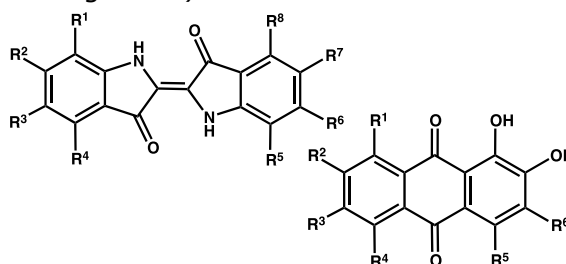


# ORGANIC ELECTROLYTE COMPOUNDS FOR REDOX-FLOW BATTERIES

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Aqueous organic redox flow batteries stand as a promising alternative to vanadium as, based on the use of readily available organic molecules as redox-active material, they offer great versatility in terms of energy density, working voltage, and stability.



Researchers at CIC energigUNE have been developed low-cost and non-toxic redox electrolyte compounds with high water-solubility, fast kinetics, and involving reversible and multiple proton-coupled electron-transfer redox reactions to be used as anolyte or/and catholyte in a redox flow battery. Thanks to an innovative strategy the solubility of organic compounds, barely soluble in water, was boosted impacting the energy density and performance strongly.

## ADDED VALUE

- Environmentally friendly and cost-effective electrolyte.
- Minimize membrane crossover.
- Bifunctional electrolyte, allowing for efficient symmetric redox flow batteries.
- Highly water-soluble organic compounds.

## APPLICATION OF THE TECHNOLOGY

- Redox Flow Battery Technology

## LICENSING CONTACT

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