



# Flow batteries aaron





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### Aaron Hollas

Aaron Hollas joined PNNL in 2016 as a post-doctorate research associate. His work has focused on the development of new redox-active organic molecules for use in aqueous flow batteries.

### Flow battery

The fundamental difference between conventional and flow batteries is that energy is stored in the electrode material in conventional batteries, while in flow batteries it is stored in the electrolyte.



### [Long-Lifetime Hydroxyphenazine Derivatives for Aqueous Redox ...](#)

This material is based upon work supported by the U.S. Department of Energy, Office of Electricity (OE), Energy Storage Division. PNNL is operated by the Battelle Memorial Institute for the ...

### Overview of Flow Batteries

Incorporating phosphorus into sodium-sulfur catholytes enhances their stability and solubility, increasing the volumetric capacity and making Na-P-S catholytes a promising, cost-effective alternative for high ...



### [A biomimetic high-capacity phenazine-based anolyte for aqueous](#)

Here, we describe a phenazine-based ASO compound with an exceptionally high reversible capacity that exceeds 90% of its theoretical value.



### [GRIDS Soluble Lead Flow Battery Technology](#)

Small and medium sized soluble lead flow batteries have been built and tested. Long term deep-discharge cycling data show promising results and the ability to scale.



### [Empa researcher on water-based flow batteries . Aaron](#)

- **\*\*Flow Batteries Explained\*\***: These batteries store energy in liquid electrolyte solutions instead of solid electrodes, with the charging and discharging processes happening in an



### [Aqueous Soluble Organic \(ASO\) Flow Battery Development](#)



Develop full understanding of capacity loss mechanisms and address through electrolyte composition, molecular design, and membrane/electrode choice. Pacific Northwest National Laboratory is a multi ...



### Flow batteries for grid-scale energy storage

Their work focuses on the flow battery, an electrochemical cell that looks promising for the job--except for one problem: Current flow batteries rely on vanadium, an energy-storage material that's ...



### **?Douglas Aaron?**

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## Contact Us

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