



Fluorescent Indicator of Lithium Ions

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The Wisconsin Alumni Research Foundation is seeking commercial partners for a lithium-ion indicator that can characterize and enhance energy potential in lithium-ion batteries.

The Invention

UW-Madison researchers have developed a novel profluorophore that binds to lithium ions with high specificity, inducing a fluorescent signal. The fluorescent indicator can be seamlessly integrated into the battery circuit board, allowing for direct visualization of the position and flow of lithium ions. By enabling direct imaging of lithium ions with enhanced resolution, the performance of lithium-ion batteries can be more closely monitored for faster charging times and longer lifetimes.

Additional Information

For More Information About the Inventors

- [Randall Goldsmith](#)

Tech Fields

- [Analytical Instrumentation, Methods & Materials : Microscopy](#)
- [Materials & Chemicals : Polymers](#)

For current licensing status, please contact Justin Anderson at janderson@warf.org or 608-960-9853

