

Automat Solutions launches LyteMatch and LyteGuide battery software platforms

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The tools support electrolyte selection, literature search, material recommendations, document analysis and natural-language interaction with battery research data

Automat Solutions Inc. has launched two battery software platforms, LyteMatch and LyteGuide, to support electrolyte selection, research review and data-driven materials decisions.



Source: Getty Images/Petmal

The California-based AI-powered materials company said the Battery Electrolyte Selection Platform, called LyteMatch, is intended to help battery researchers, startups and manufacturers identify, compare and assess electrolyte options for specific applications. The platform allows users to filter by chemistry, application, performance advantage, temperature window and formulation criteria.

LyteMatch also links formulations to research insights explaining performance characteristics. Automat said users can compare factors including ionic conductivity, electrochemical stability, viscosity, thermal stability, safety, price and expected delivery timeline.

The Battery Research Assistant Platform, called LyteGuide, extends the formulation-search workflow into literature-based technical reasoning for battery materials research and electrochemistry. The platform supports literature search, material recommendations, document analysis, technical Q&A and natural-language interaction with battery research data.

Automat said LyteGuide includes domain-specific modules covering silicon anode batteries, lithium-ion and sodium-ion batteries, and lithium metal batteries. The company said the tools are designed to help users examine issues including interface stability, electrolyte safety, formulation optimization and lithium metal compatibility.

“Battery innovation requires faster access to knowledge, better formulation tools, and stronger links between research and manufacturing,” said Jason Wang, COO of Automat Solutions. “These platforms bring AI directly into the workflow of battery developers and help accelerate the path from concept to validated electrolyte solutions.”

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