

# New Energy Lithium Battery Quality Department Workshop

Can cathode materials increase the energy density of lithium-ion batteries?

The CATMAT project is researching next-generation cathode materials that could significantly increase the energy density of lithium-ion batteries. There is an urgent need to increase the range of electric vehicles (EVs) by developing battery materials that can store more charge at higher voltages, achieving a higher energy density.

What is the Faraday Institution funding for a battery research project?

Two projects led by the University of Oxford have received a major funding boost from the Faraday Institution, the UK's flagship institute for electrochemical energy storage research. The funding is part of a £19 million investment to support key battery research projects that have the potential to deliver significant beneficial impact for the UK.

What is a power and energy storage battery Symposium?

This annual Symposium brings academic authorities and scientists together from China, Japan and South Korea to discuss the scientific issues and challenges faced by the future development of advanced power and energy storage batteries, and jointly explore the huge potential of clean energy.

Can US and UK researchers work together to reduce recyclability of batteries?

The 40 leading US- and UK- researchers that gathered at a recently held workshop at the Royal Institution that explored ways for US and UK researchers to work more closely together to reduce reliance on critical minerals in cathode materials and to ensure recyclability of batteries.

How can Nextrode reduce the manufacturing costs of Li ion battery electrodes?

Nextrode researchers are developing new tools, including pre-production design and manufacturing simulation, process diagnostics, and feedback control, to reduce the manufacturing costs of Li ion battery electrodes and to improve electrode performance. The microstructure of a solvent-free Li ion battery cathode.

Why are EV lithium ion batteries gaining performance?

The biggest performance gains for EV lithium ion batteries in the near-term are likely to arise from changing the chemistry of the cathode. CATMAT is investigating the fundamental mechanisms acting within cathodes that currently prevent the use of nickel-rich cathode materials (with low/no cobalt) and lithium-rich cathodes.

We welcome researchers, graduate students and professional engineers to join the workshop and gain an exciting exposure to the cutting-edge developments, new trends ...

NAATBatt 2023 Lithium Battery Workshop VI (Attendee List by Company) Name Job Title Company ...  
Michael Coraci New Business Development Manager Ascend Elements ... Batteries R& D Department of

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Energy Kyle Copeland Sales Manager Digatron Power Electronics.

Licerion's Topics Sion Power's new Licerion's technology as a solution beyond Li-Ion and beyond Li-S. oFailure mechanisms of rechargeable batteries with metallic lithium anode. oFailure mechanisms addressed with Licerion's technology. Sion Power development of Licerion's-S and Licerion-Ion batteries. oLi-S and Licerion's-S for Unmanned Aerial Vehicles (UAV).

Researchers from the National Renewable Energy Laboratory (NREL) and various Department of Energy (DOE) national laboratories recently participated in a ...

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This MOU was signed during a two-day battery workshop hosted by the Faraday Institution, an independent institute for electrochemical energy storage research, skills ...

LANSING, MI-- The U.S. Department of Energy (DOE), in coordination with the U.S. Department of Labor (DOL), today announced the release of the Battery Workforce Initiative (BWI)'s National Guideline ...

As the best lithium battery manufacturer & supplier with 15 years of experiences, Huahui New Energy currently has five battery systems, including lithium titanate battery, lithium iron ...

Battery research and quality assurance solutions longevity of the devices in which they are used. Optimizing a battery mean understanding its structure on multiple scales. Safety, service life, ...

The MOU sets out to establish a cooperative relationship in support of joint US UK research to develop and improve high-capacity batteries as well as new methods for battery materials recycling for their future usage in ...

In particular, TIS development is interlinked with policies (Bergek et al., 2015; Van der Loos et al., 2021).As noted by Bergek et al. (2015), interactions between TIS and policies are at the heart of large-scale transformation processes, and therefore deserve greater attention the current paper, we address this topic by analysing the coevolution between policymaking ...

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