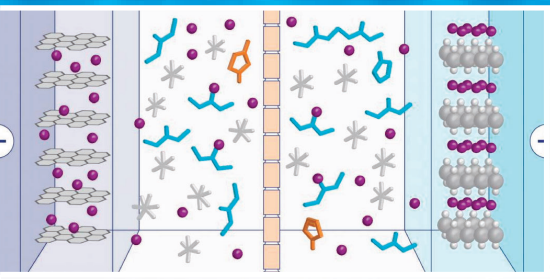
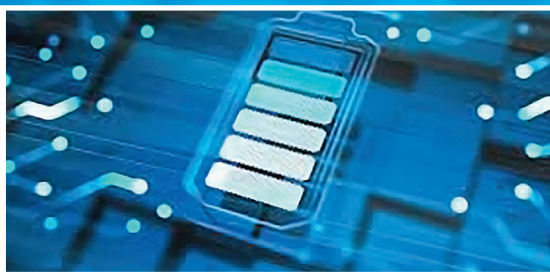
SRC Spectra Research Corporation

Your Partner in Battery Research and Development





THE SUSTAINABLE GLOBAL ECONOMY RUNS ON BATTERIES

Advances in battery technologies are at the forefront of a sustainable global economy, and refinements that further reduce the cost and optimize the performance of batteries are essential. SRC, through our technology partner suppliers, provides laboratories pursuing these refinements with pivotal technologies for battery R&D and QA/QC. Please keep reading to learn more about instrumentation from SRC and our innovative suppliers.

Contact Spectra Research Corporation today: 1-866-753-4433 www.spectraresearch.com

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OXFORD INSTRUMENTS

Electrolytes are a key component in battery performance. **Oxford Instruments**' benchtop NMR technology can quickly and easily distinguish between the diffusion behavior of different electrolyte solvents and help characterize important parameters such as conductivity and ion transference numbers. For battery R&D, the Oxford Instruments **X-Pulse broadband benchtop NMR spectrometer** provides critical data for electrolyte design. Learn more, download the **X-Pulse Application Note 20.**

PHYSICAL ELECTRONICS

X-ray Photoelectron Spectroscopy (XPS) from **Physical Electronics** (PHI) is an important tool for battery material research and development. XPS can provide insights into battery performance at realistic operating conditions, and help determine the precise location of interfaces between battery components, electronic band structure of organic and inorganic materials, and other properties crucial to battery performance. Learn more, download the **PHI XPS app.**

NANOSURF

The **Flex AFM Atomic Force Microscope** from **Nanosurf** can be used to characterize the surface topography of battery materials and components. The AFM tip can also be made electrically active and used as a probe for nanoscale conductive/resistive pathways. Measurements can be done within an electrochemical cell to passively observe changes due to charge/discharge events. Learn more, download **Nanosurf Flex AFM.**

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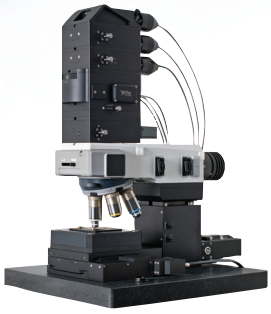
WITEC

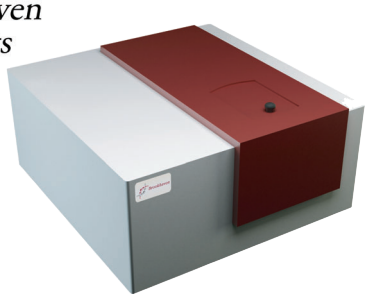
WITec focus innovations



Raman imaging systems from **WITec** provide comprehensive battery material characterization. Raman imaging can highlight the distribution of electrolyte and electrode materials and investigate their crystallinity. Learn more, download the **alpha300 R** brochure.

BROOKHAVEN INSTRUMENTS

Brookhaven Instruments



Battery particle charge (zeta potential) is effected by slurry production and stability. The Brookhaven Instruments **NanoBrook Omni** particle size and zeta potential analyzer incorporates fast, routine, submicron measurements of size and zeta potential. Accurately monitoring and optimizing electrode slurry production, and consistency. Learn more, download the **NanoBrook Omni** brochure.

AMBIVALUE

ambivalue

Ambivalue's EyeTech™ Particle Size and Shape Analyzer is developed for fast and accurate particle size and shape analysis. Particle shape morphology is key for achieving optimal battery performance because particle shape affects slurry rheology, electrode coating density, porosity and uniformity. Learn more, download the **Eyetech** brochure.

HOW TO CONTACT US

Now's the time to approach SRC with questions about technologies that can help you refine your battery R&D and QA/QC. We look forward to hearing from you and putting our unique technological solutions to work in your laboratory.

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