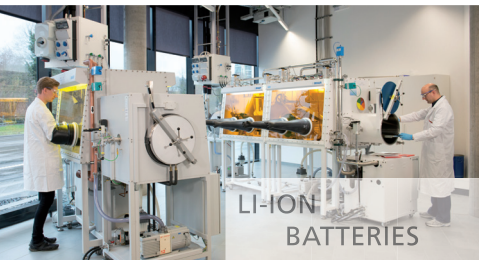


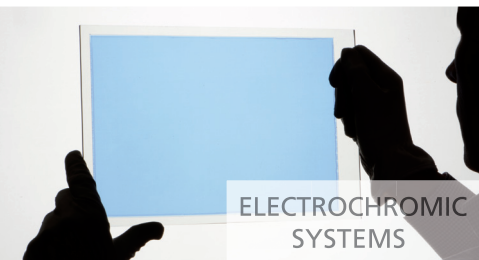
LIFE IS TOO SHORT FOR THE WRONG BATTERY ...



LI-ION
BATTERIES



LEAD-ACID
BATTERIES



ELECTROCHROMIC
SYSTEMS

THE CENTER OF APPLIED ELECTROCHEMISTRY is your partner for the development and optimization of materials and processes for batteries. The Center is part of the Fraunhofer ISC and the Fraunhofer R&D Center for Electromobility Bavaria. The Fraunhofer ISC plays a leading role in the field of innovative materials and belongs to the Fraunhofer-Gesellschaft, the biggest organization for applied research in Europe.

SINCE 1989 WE DEVELOP MATERIALS FOR BATTERIES such as polymer electrolytes for Li-ion cells. Today, the Center develops advanced materials and components for state-of-the-art and future battery technologies and electrochromic systems. Solvothermal and sol-gel-syntheses, coatings as well as hybrid inorganic-organic polymers called ORMOCER®s are our core competencies.

They are backed by modern testing and manufacturing facilities, process development and analytical services for Li-ion and lead-acid batteries.

WE PROVIDE THE RIGHT SOLUTIONS for customers from various sectors, e. g. battery manufacturers, chemical and related industries, OEMs – small and mid-sized companies as well as major corporations. Our scope includes high-energy cathodes (active materials and core-shell structures) and silicon-based anodes (binders and surface modifications) for Li-ion batteries. For solid-state devices the Center provides innovative materials, e. g. inorganic and organic solid-electrolytes and electrochromic coatings, suitable for cost-efficient processes such as roll-to-roll wet chemical coating and sol-gel synthesis. With more than 25 years' experience, we offer profound methodological competence in material analyses,

electrochemical techniques and in-depth investigations of various batteries like Li-ion and metal-air cells as well as lead-acid batteries.

AS ONE OF THE LARGEST BATTERY RESEARCH GROUPS in Germany the Center employs 35 national and international experts. Whether customized process development or analytical and consulting services, feasibility studies or international R&D collaborations, the interdisciplinary team of experienced engineers and scientists works to answer your needs for improved batteries. With extensive capabilities for the production in clean and dry atmosphere and material syntheses from 1 ml to 100 l we support your material and component development from first proof of concept up to market launch.



MATERIALS AND
COMPONENTS



PROCESS
DEVELOPMENT



TESTS AND
ANALYSES

OUR TEAM



THE CENTER OF APPLIED ELECTROCHEMISTRY develops and optimizes materials, components and processes for efficient energy storage systems and is part of the Fraunhofer ISC in Würzburg. 35 employees with interdisciplinary competencies are working as a team.

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Energy and Technology*



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