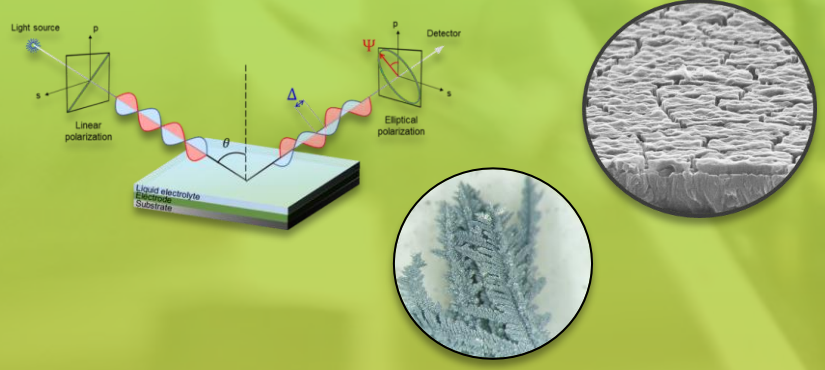
Battery research in the SURF group

Battery research is a very active and promising research area with its importance due to climate change, transitioning to renewable energy and a digital society. Here is an overview of the **exciting research** that we are conducting at the **Surface and Electrochemistry engineering research group (SURF)** at the Vrije Universiteit Brussel!

Experimental research

Battery assembly of next-generation lithium-ion, lithium metal, and sodium metal batteries



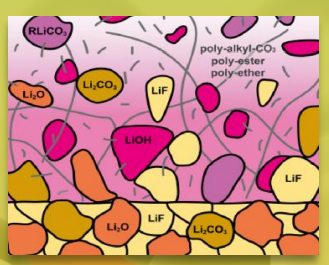
Advanced surface characterisation to investigate physicochemomechanical properties

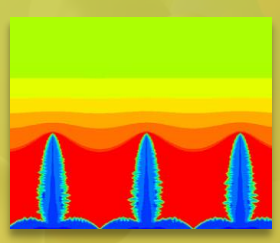
Sustainable materials

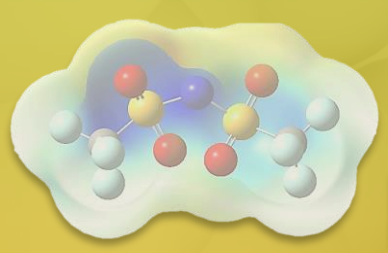
Longer lifespan

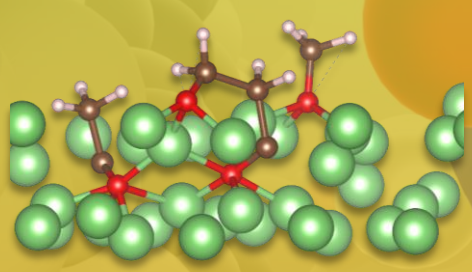
Higher energy and power density

Finite element modelling to study microscopic and macroscopic processes









Computational chemistry to study nanoscopic interactions

Computational research

Interested in **battery research**? Do you want to contribute to moving towards a **sustainable and environmentally-friendly society**? Are you interested in doing either experimental, computational or combined research? Please let us hear from you, we are very excited to work with you!

Experimental research: contact Xinhua.Zhu@vub.be Marta.Cazorla.Soult@vub.be
Computational research: contact: Mesfin.Haile.Mamme@vub.be

See you soon!

SURF ELECTROCHEMICAL & SURFACE ENGINEERING RESEARCH GROUP

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