



OPINCHARGE

# Reinventing the way we invent batteries

Battery innovation has played a major role in the development of new energy production and transport technologies, becoming true enablers of a clean, affordable and secure energy economy. However, innovation is currently being hindered by the lack of understanding of the processes happening at atomic levels in the batteries' interfaces and interphases.

Thus, the OPINCHARGE consortium aims to develop a set of effective operando nanoanalytical techniques and methodologies to understand the interfacial processes in batteries in unprecedented level of detail.

OPINCHARGE is a multidisciplinary research project unlocking the potential of lithium-ion batteries (LIBs) through cutting-edge science and innovation. By unraveling the mysteries of battery interfaces and charge transport, we're shaping the future of energy storage. It is exciting journey of scientific discovery as we revolutionize battery technology for a greener and more sustainable world.

## PROJECT ID

Project name: OPerando analyses and modelling of INTERface dynamics and CHARGE transport in lithium-ion batteries.

Project acronym: OPINCHARGE

Project number: 101104032

Type of action: HORIZON Research and Innovation Actions

Call identifier:

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Duration: 36 months

Coordinator: LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY (LIST)

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OPINCHARGE is part of the large-scale BATTERY 2030+ research initiative that aims to invent the batteries of the future by providing breakthrough technologies to the European battery industry.



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