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**OPINCHARGE**

## Newsletter #3 - Open Science in Action: The OPINCHARGE Approach!

Dear reader,

Welcome to the OPINCHARGE Newsletter #3!

At the heart of the **OPINCHARGE project** lies a firm commitment to **Open Science** and the responsible dissemination of research. The OPINCHARGE **consortium** is dedicated to ensuring full and immediate Open Access to all peer-reviewed scientific publications resulting from our research. By doing so, we aim to make our findings widely accessible to the scientific community, industry, policymakers, and the public.

In line with best practices in Open Science, we systematically apply the **FAIR Data Principles**—ensuring that all data generated is **findable, accessible, interoperable, and re-usable**. We also embrace Responsible Research and Innovation methodologies to enhance the quality, transparency, and societal impact of our work.

OPINCHARGE promotes the early sharing and transfer of research outputs among relevant stakeholders, from the moment they are generated. This approach not only supports ongoing research and collaboration. But it also accelerates innovation, increases reproducibility, and reduces time-to-market for battery-based solutions. By embedding Open Science throughout the research lifecycle, OPINCHARGE lays the groundwork for more efficient and impactful scientific advancement in the energy sector.



## Open Science Drives Innovation

Thank you for joining our growing community of researchers, industry professionals, and battery enthusiasts.

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## Project News

### The OPINCHARGE Showcases Battery Interface Innovation at Battery 2030+ Annual Conference

The OPINCHARGE project took the stage at the [4th Annual Battery 2030+ Conference](#), held on 6–7 May 2025 in Münster, Germany. Represented by project partner Prof. Hans-Georg Steinrück from FZ Jülich, OPINCHARGE joined forces with two sister projects – ULTRABAT and OPERA. Jointly, they highlighted their complementary contributions to advancing battery interface research.

***“It is important to work on challenging problems and accept failure.”*** - Prof. Hans-Georg Steinrück

[Check out the article](#)

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## Workshop

### Reflecting on a Successful Workshop at the University of Córdoba!

On April 3–4, 2025, we gathered at the Rectorate of the University of Córdoba for an inspiring and highly collaborative workshop focused on advanced characterization and multiscale modeling of battery interfaces. Bringing together leading researchers, engineers, and innovators, the event delved deep into the multi-physics interactions at electrode-electrolyte interfaces—critical to the performance and lifetime of rechargeable batteries.

European Workshop on Battery Interfaces:

## High-Resolution Techniques and Multiscale Modelling

3. – 4. April 2025, Cordoba (Spain)

# United for the Future of Batteries

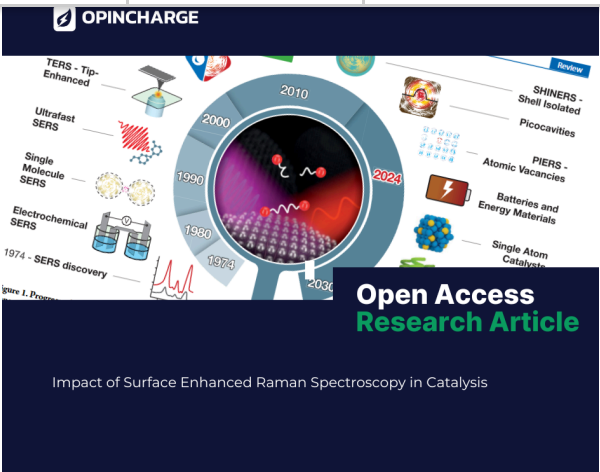


[About the Workshop](#)

[Book of Abstracts](#)

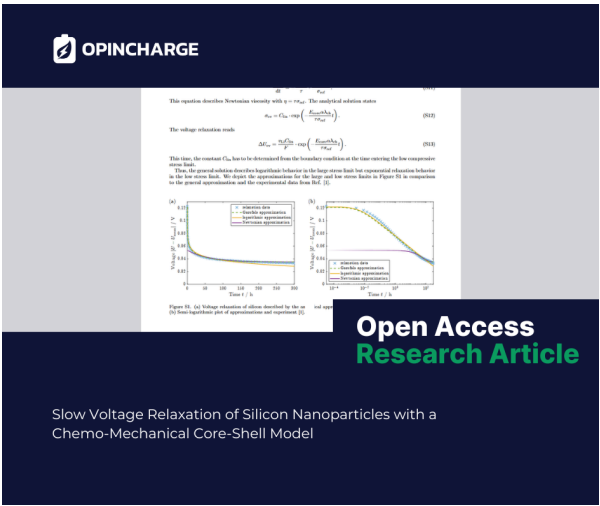
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## Open Access Research Articles



# Impact of Surface Enhanced Raman Spectroscopy in Catalysis

Catalysis stands as an indispensable cornerstone of modern society, underpinning the production of over 80% of manufactured...

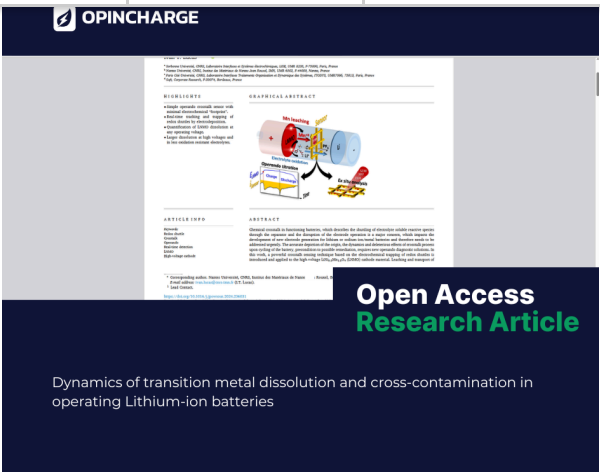
[Read more](#)

# Slow Voltage Relaxation of Silicon Nanoparticles with a Chemo-Mechanical Core-Shell Model

Slow Voltage Relaxation of Silicon Nanoparticles with a Chemo-Mechanical Core-Shell Model ...

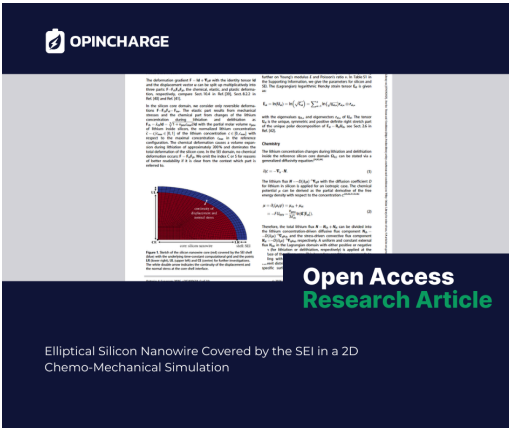
[Read more](#)





# Dynamics of transition metal dissolution and cross-contamination in operating Lithium-ion batteries

Chemical crosstalk in functioning batteries, which describes the shuttling of electrolyte soluble reactive species through...

[Read more](#)

# Elliptical Silicon Nanowire Covered by the SEI in a 2D Chemo-Mechanical Simulation

Understanding the mechanical interplay between silicon ano-des and their surrounding solid-electrolyte interphase...

[Read more](#)

## Welcome to the OPINCHARGE Media Corner

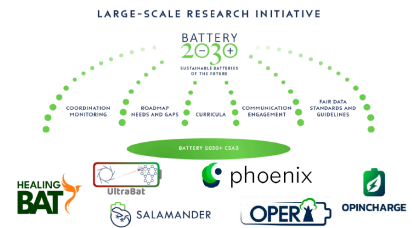
Discover the OPINCHARGE Media Corner – your central hub for project presentations, brand assets, reports, and scientific publications. Stay informed and access everything you need to share, support, or learn more about our work!

[Media Corner](#)

## Our Network

## Battery 2030+

The ambition of the Battery 2030+ is to make Europe a world-leader in the development and production of the batteries of the future. These batteries need to store more energy, have a longer life, and be safer and more environmentally friendly than today's batteries in order to facilitate the transition to a more climate-neutral society. The project is led by Uppsala University, started on 1st of September 2020.

[Read more](#)

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## BEPA

BEPA (Batteries European Partnership Association) is the private side association of the Batteries European Partnership under Horizon Europe.

We gather more than 140 stakeholders of the European battery community who strive towards a competitive European industrial battery value chain for stationary applications and e-mobility.

[Read more](#)

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## OPINCHARGE - Reinventing The Way We Invent Batteries!



# OPINCHARGE

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