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# Newsletter #5 – Open Science in Action: The OPINCHARGE Approach!

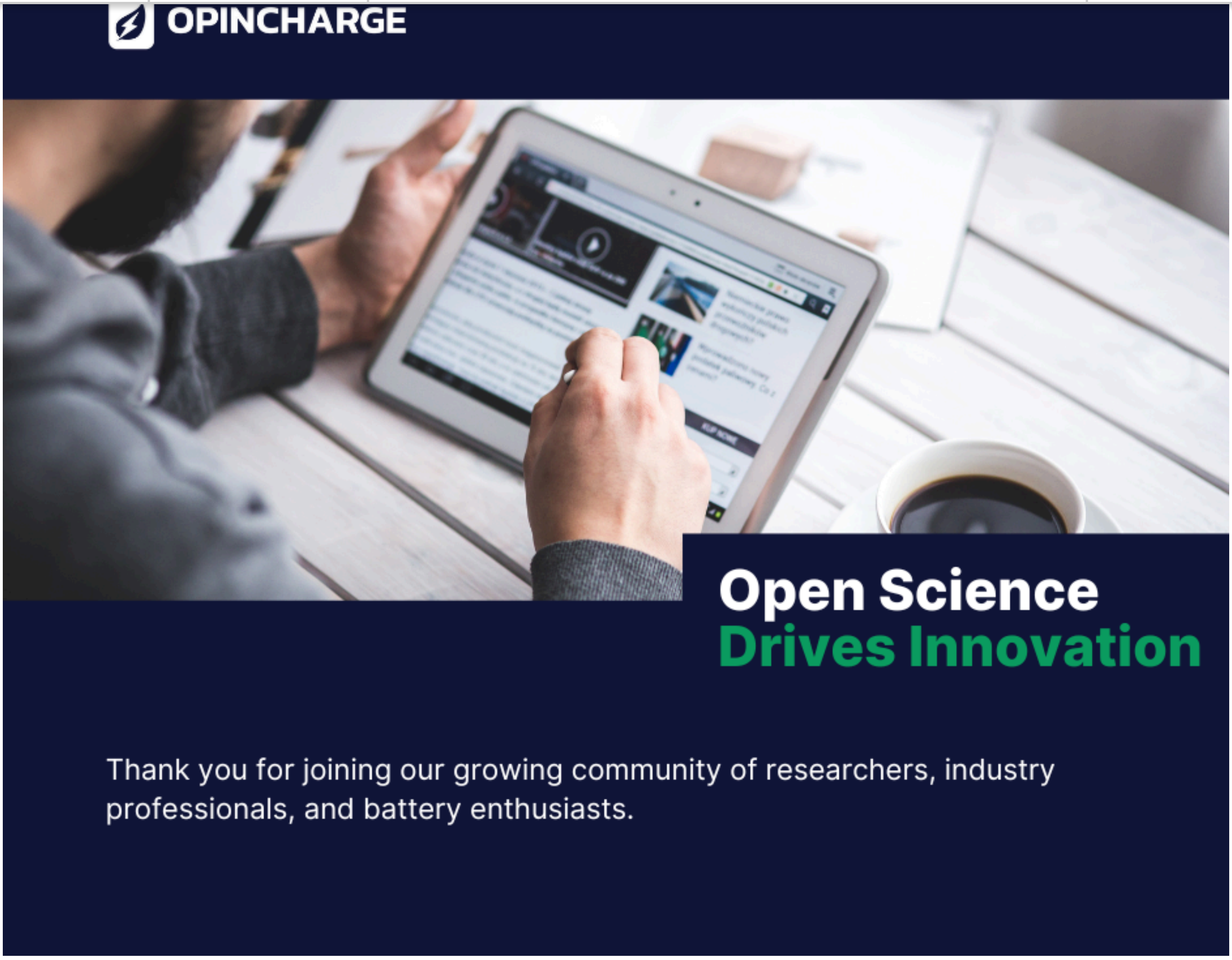
Dear reader,

Welcome to the OPINCHARGE Newsletter #5!

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. 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.

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# Project News

## OPINCHARGE Continues Battery2030+ Webinar Series on Operando Techniques

The OPINCHARGE project launched the **Battery2030+** webinar series on 23 October 2025. The initiative is, jointly organised with sister projects **OPERA** and **ULTRABAT**.

The goal is clear. Help scientists understand what happens inside batteries while they operate. The OPINCHARGE webinar series continues to explore battery interfaces across time and length scales. Recent sessions covered complementary methods — from advanced X-ray techniques to spectroscopy and modelling.

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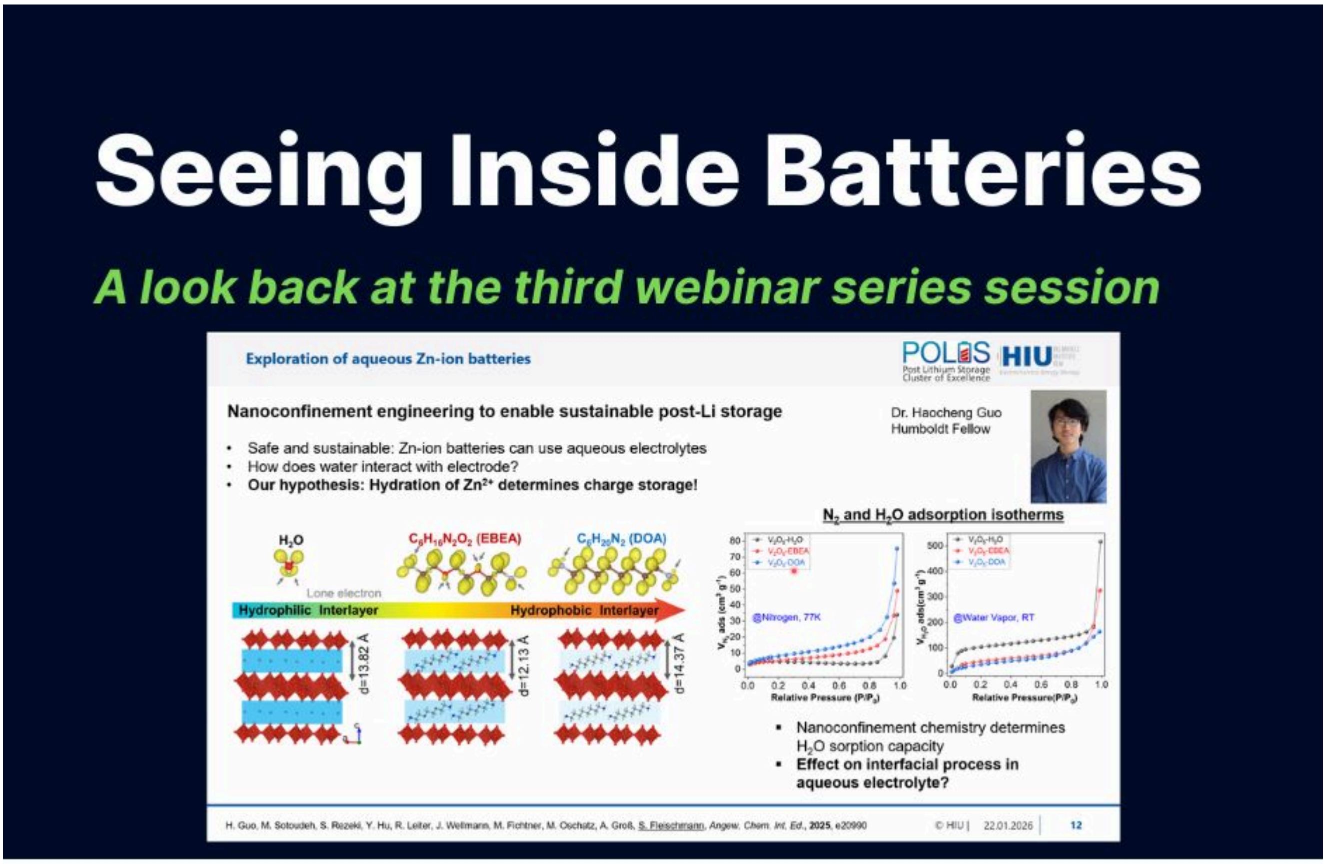
## Confinement at Battery Interfaces

The third webinar took place on 22 January 2026. **Simon Fleischmann** (Helmholtz Institute Ulm) explored how nanoscale confinement shapes electrochemical processes at battery interfaces. The session highlighted how operando techniques connect nanoscale phenomena with macroscopic battery behaviour and performance.




OPINCHARGE UltraBat OPERA BATTERY 2030+

Check out the article

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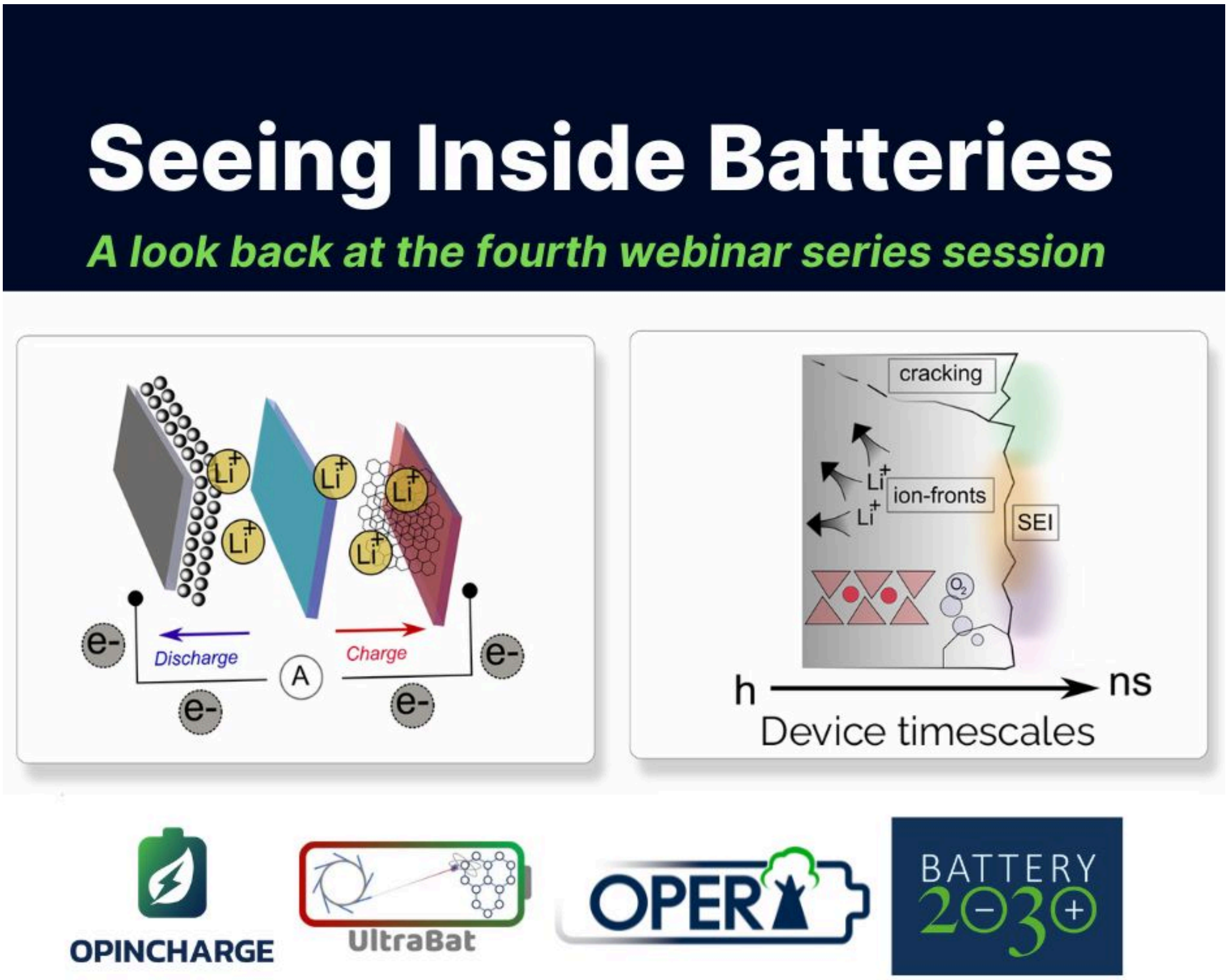
## Fourth Webinar of the Battery2030+ Series Explored Non-linear Spectroscopy for Next-Generation Batteries

The fourth webinar took place on 19 February 2026. **Raj Pandya** (University of Warwick) presented how non-linear spectroscopy reveals ion motion and lattice dynamics in battery materials. The session demonstrated how ultrafast processes influence conductivity, stability, and overall battery performance.




Check out the article

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## Fifth Webinar of the Battery2030+ Series Explored Computational Modelling for Next-Generation Batteries

focused on the role of computational modelling in battery research. The session showed how methods such as DFT and molecular dynamics support experimental interpretation and provide insight into transport processes, interfacial reactions, and degradation pathways.


Check out the article

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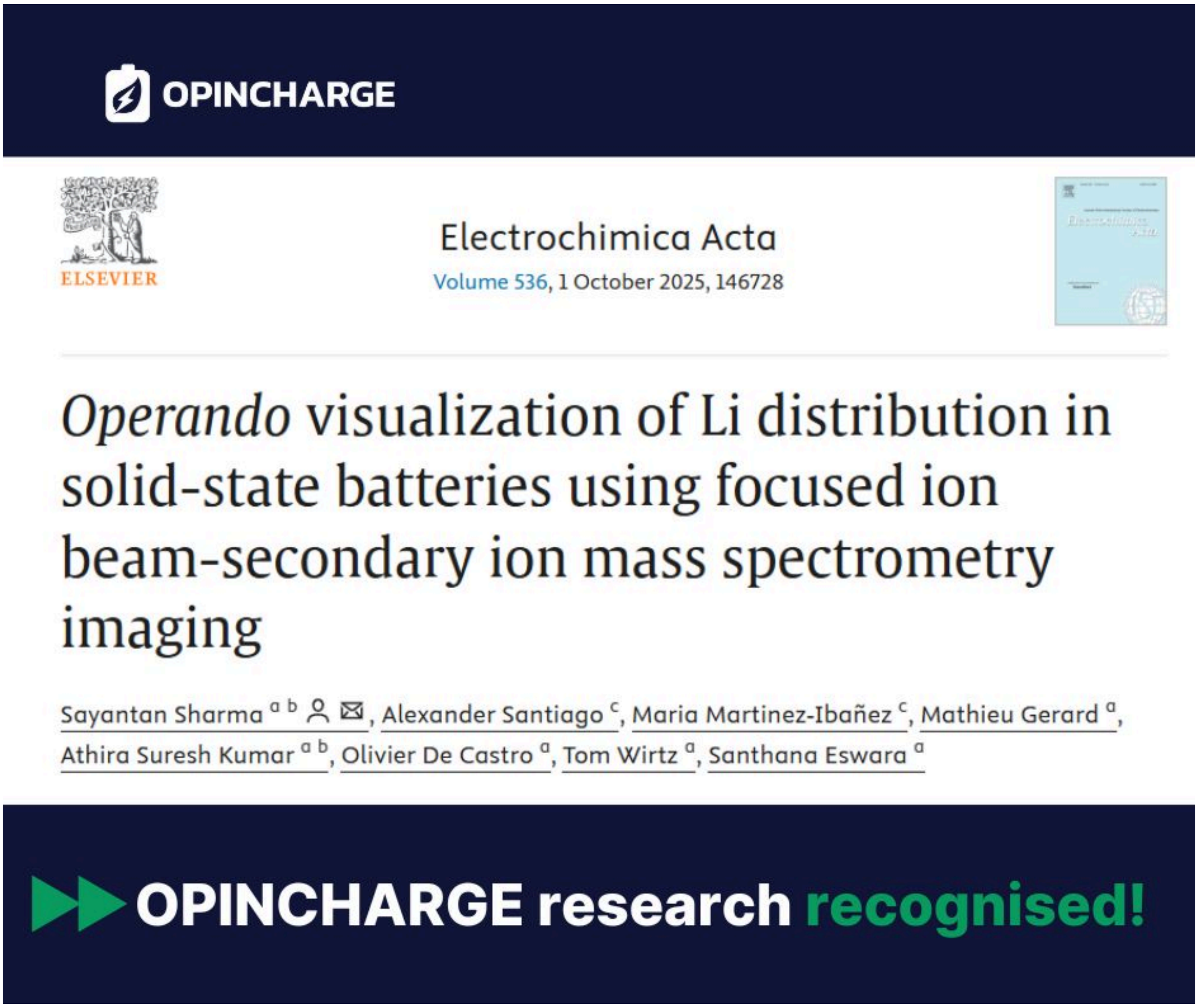
## OPINCHARGE research recognised in Editor’s Choice 2025

Research from the OPINCHARGE project has been selected as an **Editor’s Choice 2025** in the journal *Electrochimica Acta*.
The highlighted publication presents **operando SIMS imaging** to visualise lithium distribution in solid-state batteries.The study provides direct insight into how lithium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ELSEVIER

Electrochimica Acta
Volume 536, 1 October 2025, 146728

*Operando* visualization of Li distribution in solid-state batteries using focused ion beam-secondary ion mass spectrometry imaging

Sayantan Sharma [a b], Alexander Santiago [c], Maria Martinez-Ibañez [c], Mathieu Gerard [a], Athira Suresh Kumar [a b], Olivier De Castro [a], Tom Wirtz [a], Santhana Eswara [a]



Check out the article

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## OPINCHARGE Scientific Publications series

The OPINCHARGE project continues to take a closer look at its **open access scientific publications**. The series highlights key research results and explains their relevance for battery materials, interfaces and performance.
New publications continue to explore key challenges across battery science.
**Follow the series on our website and social media to stay up to date!**

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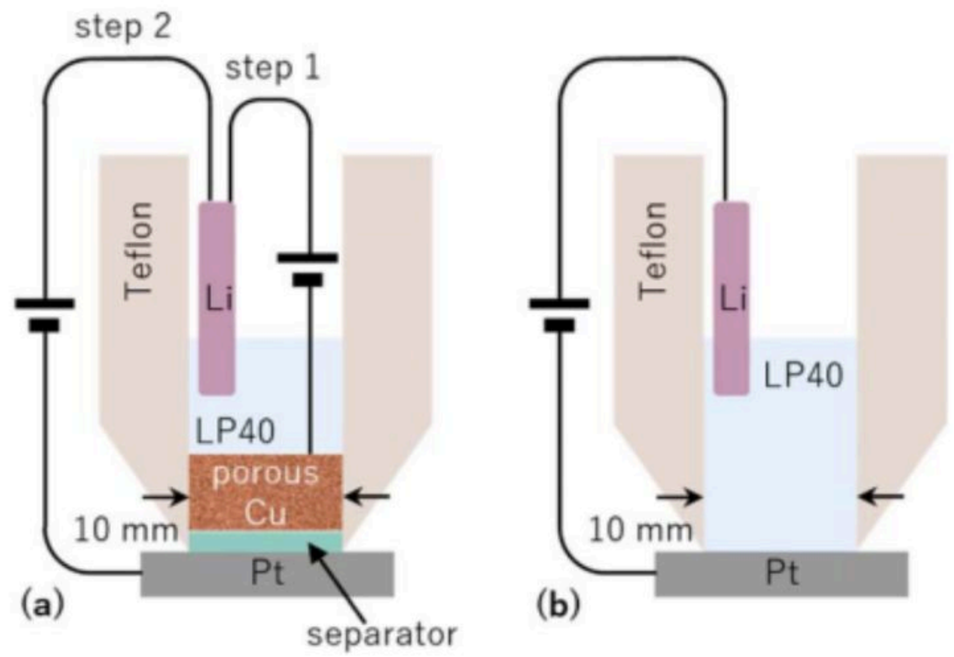


**OPINCHARGE Scientific Publication Series**

Website

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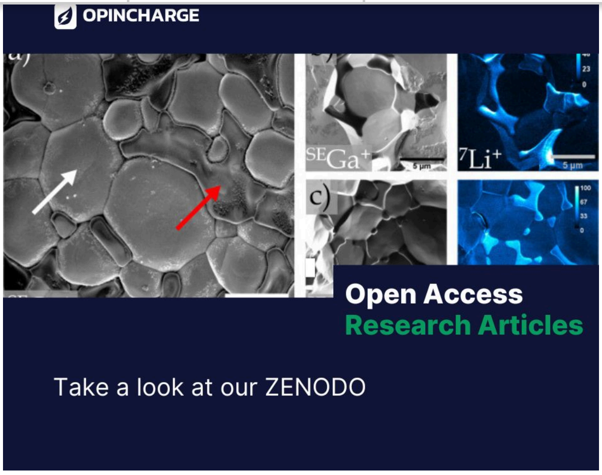
# Open Acces Research Articles on ZENODO




**Explore OPINCHARGE publications**

All project publications are openly available via our ZENODO community.

Discover the latest research and access full articles in one place.

ZENODO

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# 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

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## Happy Easter from OPINCHARGE!

As spring begins, we would like to thank our partners, collaborators, and the entire battery research community for their trust, cooperation, and shared dedication.

This period of renewal reflects the continued progress and collaboration driving OPINCHARGE forward. We look ahead to the next steps of the project and to further advancing battery research together.

We wish you peaceful Easter holidays, time to recharge, and many fresh ideas for the months ahead.

Warm wishes,
The OPINCHARGE Consortium.

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# 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. This initiative is led by Uppsala University, started on 1st of September 2020.


Read more

## BEPA (Batteries European Partnership Association)

BEPA is the private side association of the Batteries European Partnership under Horizon Europe.
They 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!

Contact us: info@opincharge.eu

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