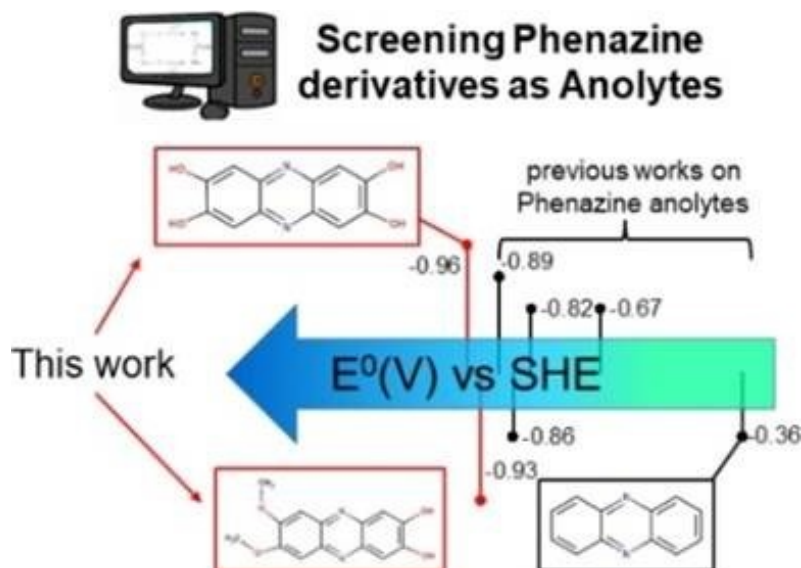




## Newsletter issue 3

### Welcome...

... to the 3<sup>rd</sup> issue of the MeBattery newsletter in which we are happy to make you aware of two publications (one in Chemical Reviews!) that were recently published by our teams at University of Burgos/IMDEA and Ruhr-Universität Bochum, respectively. In addition, ISTA explains how MeBattery helps to make energy more environmentally friendly and efficient. And last but not least, we are making use of this newsletter to say goodbye to José Pedro Wojcicchowski who is leaving MeBattery to tackle new challenges. Enjoy the read!



### Publication: A Systematic Study on the Redox Potentials of Phenazine-Derivatives in Aqueous Media: A Combined Computational and Experimental Work

*Carlos de la Cruz, Roberto Sanz, Anisley Suárez, Edgar Ventosa, Rebeca Marcilla, Andreas Mavrandonakis*

Phenazines are an emerging class of organic compounds that have been recently utilized in aqueous redox flow batteries, a promising technology for large-scale energy storage. A virtual screening based on density functional theory calculations is used to investigate the redox potentials of around 100 phenazine derivatives in aqueous media containing various electron-donating or electron-withdrawing groups at different positions.

The full publication is available here.

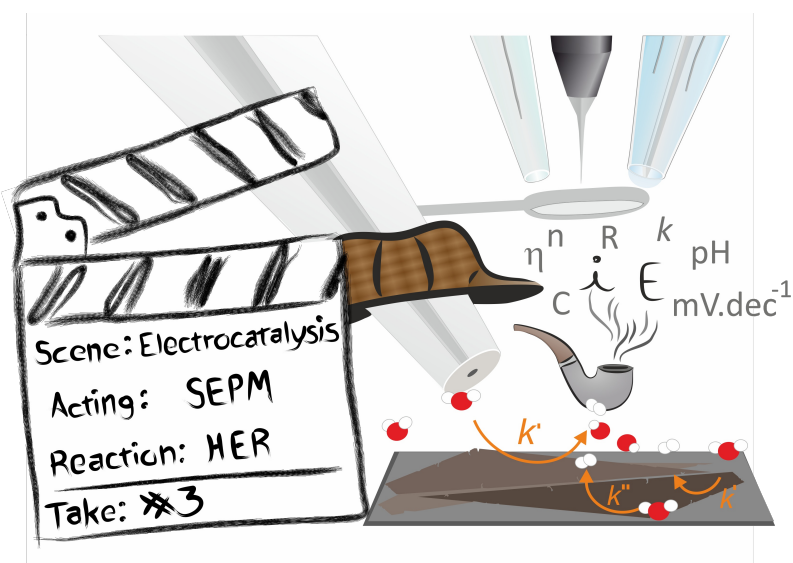
Meet the MeBattery



## team: José Pedro Wojcicchowski

Before José Pedro Wojcicchowski is moving on to new challenges, he shared with us his experience in the MeBattery team at University of Aveiro. His focus was on developing a predictive tool to estimate the partition coefficient of redox compounds. He particularly enjoyed working in MeBattery for the network of people, who were all dedicated to making a positive impact on society. We wish José all the best for his future endeavours!

Read the full interview on the MeBattery website



## Review: Operando Scanning Electrochemical Probe Microscopy during Electrocatalysis

*Carla Santana Santos, Bright Nsolebna Jaato, Ignacio Sanjuán, Wolfgang Schuhmann, and Corina Andronesco*

This review focused in the recent progress in operando scanning electrochemical probe microscopy (SEPM) measurements during electrocatalysis. SEPM techniques can disclose the local electrochemical reactivity of interfaces in single-entity and sub-entity studies. The powerful operando SEPM measurements can correlate electrochemical activity with changes in surface properties as well as provide insight into reaction mechanisms. The capabilities of SEPMs are showcased toward toward the reduction and evolution of O<sub>2</sub> and H<sub>2</sub> and electrochemical conversion of CO<sub>2</sub>. Emphasis is given to scanning electrochemical microscopy (SECM), scanning ion conductance microscopy (SICM), electrochemical scanning tunneling microscopy (EC-STM), and scanning electrochemical cell microscopy (SECCM).

The full publication is available here.



## How ISTA is striving to make batteries more environmentally friendly and more efficient

In an article published in the ISTA Magazine on April 13, 2023 on how ISTA contributes to making batteries more environmentally friendly and more efficient, Mario Palacios Corella from Maria Ibáñez' research group explains how their work in MeBattery is helping to reach that goal. Their work concentrates not only on improving the performance of redox flow batteries but also on replacing environmentally harmful material with eco-friendly alternatives.

[Read the full article here.](#)

1<sup>st</sup> Public Workshop  
**Advanced materials for batteries**  
May 10, 2023  
University of Aveiro,  
Aveiro, Portugal

Registration on [www.mebattery-project.eu](http://www.mebattery-project.eu)

The poster features a dark blue background with green accents. It includes a logo for MeBattery, a lightbulb icon, and two human head silhouettes.

## Reminder! 1st MeBattery Workshop Registration still open!

Our 1st MeBattery Workshop will focus on material science for the development of advanced battery devices. Progress in material science is of key importance for the development of any disruptive energy storage technology. The workshop will therefore cover topics from synthesis of advanced materials for batteries to tuning of their properties and to their recycling.

Participation is possible on location in Aveiro, Portugal, or online.

[Register now for our workshop!](#)



### Announcements

**1st Iberian Symposium on Functional Organic Polymers**

11-12 May 2023  
Aveiro, Portugal  
[More information](#)

### **WCCE11 - 11th World Congress of Chemical Engineering**

4-8 June 2023  
Buenos Aires, Argentina  
[More information](#)

### **Organic Battery Days 2023**

7-8 June 2023  
San Sebastian, Spain  
[More information](#)

We hope that you enjoyed this issue of our newsletter and we look forward to sharing our exciting journey with you.



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