

# The 88<sup>th</sup> GREEN Seminar



## Sustainable Batteries and Electrocatalysis for Clean Energy Technologies

*Chair: Dr. Yoshitaka Tateyama (GREEN)*

## Prof. Magda Titirici

(Department of Chemical Engineering, Imperial College London, UK)

It is imperative we mitigate and then reverse carbon emissions. The world is committed to keep 1.5 C within reach by 2050. A green industrial revolution powered by many of sustainable innovations evolving in parallel is essential. Yet we need to make sure that this new revolution happens sustainably and does not create more damage. We must learn from past mistakes and learn how to see the bigger picture rather than immediate goals. Batteries and catalytic processes are key for delivering the green industrial revolution by storing the intermittent renewable energy and releasing it when is needed most to decarbonize our economy across various sectors. Yet, battery materials and catalysts for various sustainable technologies are facing real challenges as they are based on critical and expensive metals. In this talk, I will present recent research advances from my research team in the area of sustainable batteries with focus on Na and Al as well as the production of green H<sub>2</sub> and sustainable plastics via electrocatalysis.

**Venue:** Auditorium, 1F, NanoGREEN/WPI-MANA Bldg.,  
Namiki-site / Zoom (Hybrid)

**Date:** Tuesday, 11 April 2023

**Time:** 15:00-16:00

**Contact:** TATEYAMA.Yoshitaka@nims.go.jp



Zoom Meeting ID: 817 8187 0876 Passcode: 578169

<https://bit.ly/3lD6n08>