

## Special Issue

# Applied Electrochemistry: Latest Advances and Breakthroughs

### Message from the Guest Editor

Applied electrochemistry is a rapidly advancing field that focuses on the practical implementation of electrochemical processes in key areas such as energy storage, environmental management, and material development. Current research centers on enhancing the efficiency and sustainability of technologies such as batteries, fuel cells, and electrolyzers for renewable energy production. Breakthroughs in electrode materials, catalysis, and energy storage systems are driving significant advancements in research areas like that of electric vehicles and grid storage. Topics of interest for submissions to this Special Issue include, but are not limited to, the following:

- Energy Storage: Advancements in batteries and supercapacitors.
- Fuel Cells: Developing efficient, clean energy solutions.
- Electrocatalysis: Hydrogen production, carbon capture, and improving energy conversion catalysts.
- Sensors: Electrochemical sensors for environmental and industrial applications.
- Corrosion Protection: New materials and coatings to prevent corrosion.
- Sustainable Processes: Green electrochemical technologies for energy and waste management.

### Guest Editor

Dr. Hanyu Wang

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### Deadline for manuscript submissions

31 August 2025



## Applied Sciences

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CiteScore 5.5



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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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