



an Open Access Journal by MDPI

Chiral Materials in Electrochemistry: Different Ways to Transduce, Transmit and Exploit Chiral Information

Guest Editors:

Dr. Mirko Magni

Department of Environmental Science and Policy, Università degli Studi di Milano, 20133 Milan, Italy

Dr. Serena Arnaboldi

Department of Chemistry, Università degli Studi di Milano, 20133 Milan, Italy

Deadline for manuscript submissions:

closed (25 December 2022)

Message from the Guest Editors

This **Special Issue** aims to collect both research and review articles that focus on the amazing combination of chiral substances (molecules or materials) with electrochemistry. This combination generates a plethora of applications invariably based on the transmission of chirality throughout different dimensional scales, from the nano- or microscopic level (e.g., the analytical recognition of antipodes, asymmetric synthesis and spintronics) to the macroscopic scale (e.g., the movement of small objects). We hope this Special Issue can represent a valuable reference platform for the many researchers (even from the branch of physics) working in the fascinating world of chiral electrochemistry.

Keywords:

- chiral electrode surfaces (metals, composites, polymers, etc.)
- chiral molecular inductors (catalysts, biocatalysts, redox mediators, additives, supporting electrolytes, solvents, etc.)
- chiral thin films and chiral electroanalytics
- asymmetric electrosynthesis
- asymmetric bipolar electrochemistry
- chiral electromechanical actuators
- spintronics and spin filtering
- spin-dependent electrochemistry
- magnetoelectrochemistry



mdpi.com/si/101672

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)