Special Issue

Research on Electrocatalytic and Electrosynthetic Materials

Message from the Guest Editors

Electrocatalytic and electrosynthetic materials play a crucial role in accelerating and controlling electrochemical reactions, which are essential for various applications in energy conversion, environmental remediation, and chemical synthesis. These materials possess unique properties that enable them to efficiently catalyze and facilitate electron transfer during electrochemical processes.Their design and optimization hold significant potential for advancing clean energy technologies, sustainable chemistry, and environmental remediation. Continued research and development in these areas are critical for realizing a more sustainable and low-carbon future. This Special Issue is proposed in order to provide and share recent research and developments on novel electrocatalytic and electrosynthetic materials for the high-value conversion of small molecules, as well as on their synthesis, characterization, properties, and simulations. The contributions in this Special Issue will be of great interest to researchers working in the field of electrocatalytic and electrosynthetic materials. Therefore, we welcome research works from scientists, engineers, and industries in these fields.

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Deadline for manuscript submissions

closed (20 September 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/179719

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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