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Innovation and Application of Advanced Electrochemical Materials

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Deadline for manuscript submissions:
closed (10 August 2023)

Message from the Guest Editor

New advanced electrochemical materials can help to solve all these problems. Electrochemistry can cover many areas, such as water and air cleaning, waste recycling, clean energy storage and conversion, corrosion, sensors, electronic and medical materials, biodegradable materials, and others.

This Special Issue of Materials will focus on different areas, including energy conversion and storage, in particular fuel cells, supercapacitors and Li-ion batteries, solar cells or hydrogen production and storage. Moreover, corrosion processes and reactions, especially for industrial applications, as well as electrodeposition of nanosurfaces or nanocoatings with the aim of higher stability and improved safety and water and air cleaning or waste treatment and recycling will also be covered. Finally, the applicability of electrochemical materials to the biological sciences and medicine will be of interest.

It is our pleasure to invite you to submit a manuscript reporting novel materials and structures, their electrochemical behaviors, fundamental reactions, novel applications, as well as other related topics for this Special Issue. Full papers, communications, and reviews are all welcome.

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