

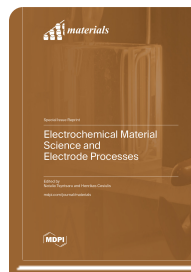
Special Issue Reprint

Electrochemical Material Science and Electrode Processes

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In the field of materials science, electrochemical interfaces and reactions are crucial for the preparation, analysis, and application of materials. They play a significant role in the development of new materials and encompass a range of applications including environmental sustainability, energy conversion and storage, and sensing technologies. As we move further into the twenty-first century, the importance of electrochemistry in diverse applications is becoming increasingly evident, highlighting its solid presence and promising future. Various key electrochemical processes are finding their way into the industry. For instance, the electrodeposition of metals, alloys, and composite materials can deliver multifunctional surfaces that can be easily adapted by electrochemical conditions and solution composition. Additionally, technological applications include the fabrication of electrodes targeting specific metals/ions, the electrowinning and recovery of metals, water electrolysis and splitting, and supercapacitive materials/devices.

This Special Issue includes contributions—both articles or reviews—focused on the electrochemistry of materials and related electrochemical processes.

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