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Advances in Electrochemical Properties of Magnetic Materials

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Deadline for manuscript submissions:
31 May 2024

Message from the Guest Editor

The electrochemical properties of magnetic materials involve their response to electrical stimuli, encompassing charge storage and transfer, reactivity in electrochemical reactions, and magnetic behavior. This Special Issue centers on advancing our comprehension and characterization of magnetic materials' properties, with a particular focus on their applications in diverse fields, including energy storage, catalysis, and biomedical technologies: (1) Synthesis and characterization of magnetic materials with improved electrochemical properties; (2) Fundamental principles and mechanisms underlying the electrochemical properties of magnetic materials, such as their charge storage and transfer capabilities; (3) Potential applications of magnetic materials in electrochemical devices, such as batteries, supercapacitors, and sensors; (4) Magnetic materials in catalytic reactions and exploring their potential for use as catalysts; (5) Magnetic materials in biomedical technologies, such as drug delivery and magnetic resonance imaging (MRI).