

Special Issue

Advanced Electrochemical Materials: Experimental and Numerical Analysis

Message from the Guest Editor

Electrochemical materials and interfaces are abundant in vastly different types of energy systems. Their applications can be found in a large number of consumer and industrial technologies. Recent demands for higher performance and efficiencies places significant stress on currently available materials. Understanding and fine-tuning these properties is a crucial deciding factor in providing high performance and sustainable alternatives. The ability to obtain insights into the nature of specific molecular structure and interaction allow molecular dynamics (MD) simulations to be a powerful tool. Knowledge gained from such insights can aid in developing novel materials by fine-tuning desirable structural characteristics, help in screening potential highly efficient candidate materials, and build upon existing scientific understanding. This Special Issue aims to present recent progress in the applications of MD simulations in the advancement of electrochemical materials, their development, enhancement, and study. It is our pleasure to invite all those who are interested in contributing new and interesting work to the aforementioned field.

Guest Editor

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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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