

Special Issue

Advanced Functional Materials for Hydrometallurgical and Environmental Applications

Message from the Guest Editors

Advanced functional materials have been broadly applied in hydrometallurgy and environment-related fields. On the one hand, functional materials have been exploited by researchers to separate and enrich valuable metals from the complex leaching solutions of low-grade metal ores and secondary resources. On the other hand, these materials have also been adopted for the separation and removal of heavy metals, harmful gases, or organic pollutants exposed in the environment. This Special Issue on 'Advanced Functional Materials Used for Hydrometallurgical and Environmental Applications' aims to explore the preparation, characterization, and application of advanced functional materials in hydrometallurgical and environmental protection processes. This Special Issue is mainly focused on solvent-impregnated resins, supported ionic liquids, composite electrode materials, ion-imprinted polymers, solid wastes based on adsorption materials, etc. It encourages thorough research on the reveal of adsorption mechanisms based on quantum chemistry simulation and other multidisciplinary approaches.

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About the Journal

Message from the Editorial Board

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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