

Special Issue

Extraction and Recycling of Critical Metals

Message from the Guest Editor

The sustainable extraction and recycling of critical metals have become increasingly vital in materials science, driven by the growing demand for advanced functional materials in energy storage, electronics, and high-performance alloys. Recent developments in materials design and processing—including novel adsorbents, selective membranes, catalytic surfaces, and electrochemical interfaces—are creating new opportunities to improve the efficiency and selectivity of metal recovery systems at both microscopic and macroscopic scales. We welcome contributions that address the materials science aspects of critical metal recovery through original research articles, communications, and comprehensive reviews. All submissions should maintain a clear focus on material structure–property relationships, novel material systems, or materials processing techniques relevant to metal extraction and recycling.

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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