



Separation and Purification of Critical Metals

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Message from the Guest Editor

Dear Colleagues,

Critical metals refer to rare metals, rare earth metals, and some other metals that are necessary in today's society. They play a kind of irreplaceable role in emerging industries such as new materials, new energy, and information technology. Aiming at the scarce critical mineral resources in the world, the theme of "Separation and Purification of Critical Metals" is reporting the relevant theoretical breakthroughs and technological innovations in enrichment, separation, and purification technology of low-abundance metal elements, which can provide a scientific and technological foundation for the comprehensive utilization of resources. The enrichment, separation, and purification technology of critical metals includes the new flotation reagent, new beneficiation process, new smelting process, and beneficiation and smelting combined technology.

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Guest Editor





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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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