Special Issue

Rare Earth Deposits and Challenges of World REE Demand for High-Tech and Green-Tech at the Beginning of the 3rd Millennium

Message from the Guest Editors

The rapid development of environmentally-friendly and other innovative technologies in the past century have greatly increased the demand for rare earth elements (REE) and, most recently, neodymium (Nd), dysprosium (Dy), niobium (Nb) and other critical materials in particular. The need for new sources of these materials has been amplified by the current situation in their supply markets, with a growing public concern about unlawful, unethical (e.g., “conflict coltan” in the Democratic Republic of the Congo) or environmentally harmful extraction (REEs sourced from the “South China clays”) of some rare-metal resources. Critical materials are, and will likely remain, indispensable for the implementation and further advancement of low-carbon energy and transportation technologies, such as wind farms and electric vehicles.

Guest Editors

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Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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