



Heavy Minerals: Methods & Case Histories

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Message from the Guest Editor

Dear Colleagues,

The principal aim of this book is to provide a wide range of information and a useful reference for researchers interested to investigate heavy-mineral assemblages in different geological settings and for a variety of purposes. The great methodological developments achieved in recent years for the identification of heavy minerals in a wide grain-size range will be illustrated. All factors that affect heavy-mineral concentration and relative proportions, including hydraulic sorting, mechanical abrasion, chemical weathering and post-depositional dissolution, and all factors able to introduce analytical, environmental or diagenetic bias will be thoroughly dealt with. A proper integration of multiple techniques including bulk-sediment, multi-mineral, and single-mineral methods will be discussed by renowned authors in their invited contributions.

Keywords

- heavy-mineral suites
- source-to-sink studies
- petroleum exploration
- advanced techniques of mineral analysis
- applications to provenance of silt and dust

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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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