Special Issue

Applications of Paleomagnetism and Rock Magnetism in Geochronology

Message from the Guest Editor

The study of the magnetic properties of rocks provides information that is broadly used in many fields of Earth sciences. Among them, geochronology plays a central role in the geological sciences. In this regard, the information provided from paleomagnetic investigations has been used in many research works as a tool for the dating of sedimentary and volcanic sequences. Magnetostratigraphy, representing the record of the polarity reversals of a geomagnetic field as registered via sedimentary and volcanic rocks, is proven to be a valuable tool for correlation between sections from different environments and realms, and also for dating. In the same way, the record of the variation in the relative paleointensity (RPI) of the geomagnetic field can be used as a correlation tool for Quaternary stratigraphic sequences (sedimentary and volcanic). Furthermore, the study of rock magnetism can be used for geochronological purposes. With this Special Issue, we want to collect original papers from researchers in paleomagnetism and rock magnetism that illustrate the possible applications of paleomagnetism and rock magnetism in geochronology.

Guest Editor

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About the Journal

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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