

Special Issue

Rare Earth Elements (REEs) in Fluvial Sediments

Message from the Guest Editor

We are preparing a Special Issue for the Journal *Geosciences* focused on the exogenous factors that influence REEs (Rare Earth Elements) concentrations in fluvial sediments. REEs are a group of elements that has received major attention during the last few decades, namely because of their application in new technologies. In addition, REE patterns are frequently used in tracing the source of sedimentary deposits, especially in fine-grained units, for which other tools for provenance research cannot be adopted. REE concentrations are influenced by several exogenous processes. For example, weathering may not affect all REE in the same way, and the absolute concentration of different elements strongly depends on the sorting process, which rules the abundances of different clay and heavy minerals that host most REEs. It is also recognised that human activities account for the introduction of some REE in the environment. Understanding the processes taking place in the surface continental environments that influence REE concentrations has wide implications for paleogeographic reconstructions, environment studies and economic geology.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

Prof. Dr. Alberto G. Fairén

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