

Special Issue

Understanding Hydrogeochemical Responses to Earthquake

Message from the Guest Editors

Earthquakes are catastrophic events that can affect the hydrosphere, as well as the whole environment. In recent years, different case studies have reported changes in water flow, permeability, and hydrochemical parameters connected with seismicity, but the mechanisms causing these changes remain unclear and different questions are still unsolved. The role of aquifer features, the timing of responses, and the reliability of pre-earthquake anomalies as potential precursors are just some of the major ongoing debates in the geoscience community. Therefore, there is a need for focused research in the understanding of earthquake-related hydrogeochemical responses in different settings, as well as the collection of long-term datasets to understand the main mechanisms causing responses. This Special Issue aims to collect case studies related to hydrogeochemical responses to earthquakes, studies reporting regional or large-scale monitoring systems, and reports on data treatment and harmonization to assess the relationships between water systems and seismicity. Critical and perspective reviews that explore issues related to hydrogeochemical responses to earthquakes are also welcome.

Guest Editors

Prof. Dr. Andrea Pozzi

Dipartimento di Scienza e Alta Tecnologia, Università degli Studi dell'Insubria, Como, Italy

Dr. Gilberto Binda

Dipartimento di Scienze Teoriche e Applicate, Università degli Studi dell'Insubria, Varese, Italy

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Minerals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
Germany

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