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Decoding Global and Regional Neoproterozoic Changes from Sedimentology, Geobiology and Geochemistry

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Message from the Guest Editors

The Neoproterozoic period (1000–541 Ma) encompasses drastic worldwide changes, including extreme climatic events and transformative evolutionary transitions. Various lines of evidence indicate that these changes could be recorded in sedimentological, geobiological and geochemical variations in the sedimentary successions. Hence, the comprehension of Neoproterozoic succession contexts and their documented changes result in solid evidence to reconstruct the ancient climatic and environmental conditions regarding the paleogeographical context.

The contributions to this Special Issue can focus on: 1) methods and case studies of Neoproterozoic sedimentary successions for paleoenvironmental reconstructions of basin infills and/or paleogeographic evolution of sedimentary basins; 2) case studies on the geobiological significance of primitive life forms and their potential biostratigraphic evolution and correlation in the Neoproterozoic record; 3) case studies of geochemical and/or isotope analysis of Neoproterozoic sedimentary successions and paleoclimatic/paleoenvironmental-related events. Moreover, contributions can be a combination of the case studies mentioned.

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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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