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Zircon U-Pb Geochronology Applied to Tectonics and Ore Deposits

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Message from the Guest Editors

This Special Issue presents a comprehensive collection of research articles that highlight the significance of zircon U–Pb geochronology in unraveling the mysteries of tectonic processes. The articles within this Special Issue explore the diverse applications of zircon U–Pb dating, including the determination of ages for magmatic events, metamorphic processes, and sedimentary deposition. By analyzing the isotopic composition of zircons, researchers can accurately date these geological events, providing valuable insights into the geological history of different regions.

The papers presented in this Special Issue aim to showcase the wide range of tectonic settings where zircon U–Pb geochronology has been applied, such as mountain building processes, plate tectonics, and crustal growth. The studies contained within this collection also emphasize the integration of zircon U–Pb dating with other analytical techniques, such as geochemistry and geophysics, to enhance our understanding of tectonic phenomena.

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset 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.

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