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Special Issue Reprint

Mineral Chemistry of Granitoids

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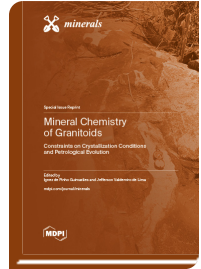
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The aim of this reprint is to emphasize the crucial role of mineral chemistry in understanding the crystallization parameters (temperature, pressure, and oxygen fugacity) during the petrological evolution of granitic magmas. Contributions from leading experts in the field offer fresh perspectives and in-depth analyses, enhancing our understanding of granitic systems and their broader geological significance. Given that the chemistry and redox conditions of the parental magma significantly influence the composition of minerals in granites, this reprint highlights the importance of mineral chemistry in unraveling magmatic processes, ranging from conventional mineral chemistry, involving the analysis of primary ferromagnesian phases that provide valuable insights into the nature of the magma and its affinity with various magmatic series, to more recent approaches that involve studying trace element signatures in accessory minerals to trace the source and petrological evolution of granitic magmas. This reprint demonstrates how these methods serve as powerful tools for studying granitic systems by employing less mobile chemical signatures to complement conventional mineral chemistry data.



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