



minerals



Special Issue Reprint

Geochemistry and Genesis of Hydrothermal Ore Deposits

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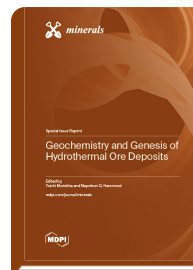
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Hydrothermal ore deposits are formed via the circulation of ore-forming hydrothermal fluids from a variety of sources within the crust, including fluids of mixed origin. Magmatic fluids have been found to potentially evolve into hydrothermal fluid that is mixed with meteoric water in many geological studies. These deposits may form near the surface, such as epithermal deposits, or at deeper levels, such as hypothermal deposits including porphyry deposits. Their formation is engendered by the various physicochemical conditions encountered by the related ore-forming hydrothermal fluids along their flow paths.

This Special Issue aims to elucidate the role and importance of hydrothermal fluid in the formation of hydrothermal ore deposits in a broad sense. This Special Issue contains research papers that apply analytical techniques, including geothermometry and geobarometry, geochemical techniques, and geological observations, to address the source and evolution of hydrothermal fluid. With this, we may be able to disclose the genesis of ore deposits, as well as their relevance to the exploration of these deposits.



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