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Gold–Polymetallic Deposits in Convergent Margins

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Gold–polymetallic deposits associated with plate tectonic evolution represent significant sources of economically important metals that are essential for modern society. Their genesis is linked to magmatic and hydrothermal processes arising from diverse subduction to collision tectonic regimes generated in convergent margins. This Reprint aims to advance the understanding of gold–polymetallic mineralization near convergent settings by focusing on the geochemical, spectrum, geochronology and tectonic controls of ore formation. Contributions include, but are not limited to, (1) the geochemistry and genesis of gold–polymetallic deposits in orogenic contexts; (2) the mineral chemistry of ore, gangue, and accessory minerals that provide insights into ore-forming processes; (3) fluid–rock interaction mechanisms and their implications for metal transport and precipitation; (4) geochronological constraints on the timing and evolution of mineralizing events; (5) the ore and host rock spectrum for exploration; and (6) the application of innovative approaches to unravel the evolution of ore systems.

