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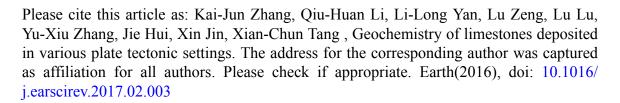
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Geochemistry of limestones deposited in various plate tectonic settings

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Abstract

Limestone, a major part of the global sedimentary succession, susceptible to post-depositional diagenesis. Studies of limestone geochemistry are essential in the discrimination of tectonic settings of basins in which the limestones were deposited. Six Late Mesozoic and one Tertiary limestone successions of Tibet, western China, that were deposited in oceanic plateau, passive continental margin, active continental margin (fore-arc basin, back-arc basin and foreland basin) and continental inland freshwater basins were analyzed for their major, trace and rare earth element (REE) composition. This geochemical dataset, in combination with the Deep Sea Drilling Project and Ocean Drilling Program (DSDP and ODP) literature geochemical data

1

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