

Trace-element models for the evolution of the Vioolsdrif suite, Richtersveld province, southern Namibia

University of the Witwatersrand - Neoproterozoic geodynamic evolution of SW



Description: -

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Trace elements

Geology - Namibia Trace-element models for the evolution of the Vioolsdrif suite, Richtersveld province, southern Namibia

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An Eburnean base metal source for sediment

In: Cooper AK, Barrett PJ, Stagg H, Storey B, Stump E, Wise W eds Antarctica: a keystone in a changing world.

Trace

The predominance of ferrous iron and sulfide in terrigenous sediments, anoxic ocean water, and hydrothermally altered reduced submarine basalts during the Precambrian, suggest that a significant proportion of H₂S would have been released to the sub-arc mantle in subduction zones, thus maintaining stability of mantle sulfides during partial melting in the source region of arc magmas, depleting juvenile silicate melts of chalcophile metals, and limiting the ore-forming potential of ascending magma. In: CR Anhaeusser and S Maske eds, Mineral Deposits of Southern Africa.

Oxidized sulfur

The majority of garnets were, however, in equilibrium with clinopyroxene 24 of 39. Despite the wide separation of these two areas with intervening Phanerozoic cover Fig. Following the criteria described in ref.

Origin and evolution of the ~1.9 Ga Richtersveld Magmatic Arc, SW Africa

The smaller MPWB magma type could represent a smaller degree melt at greater depth from a modified MORB-like source, although the relationship between the two subgroups remains unclear. Ramaliba are The Jiajika lithium Li deposit in Sichuan Province is the largest pegmatite-type Li deposit in China.

The Sperrgebiet Domain, Aurus Mountains, SW Namibia: A ~2020

Later break-up of Gondwana and opening of the modern South Atlantic would have followed largely along the axis of the Marmora back-arc basin and not along major continental sutures. These basement rocks demonstrate the extreme uplift and deep erosion of the underlying Kalahari Craton at its western margin before general subsidence during Cryogenian and Ediacaran time. XRF maps were acquired at the beamlines immediately preceding spectra collection to locate the apatite inclusions in zircon.

Oxidized sulfur

. A novel approach to double-spike Pb-Pb dating of carbonate rocks: examples from Neoproterozoic sequences in southern Africa. Pieterse for performing the ICP-MS analyses of the whole-rock powders.

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