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

University of the Witwatersrand - The Sperrgebiet Domain, Aurus Mountains, SW Namibia: A ~2020

Description: -
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Trace elements
Geology - NamibiaTrace-element models for the evolution of the Vioolsdrif suite, Richtersveld province, southern Namibia
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The 1.8 Ga Gladkop Suite: The youngest Palaeoproterozoic domain in the Namaqua

The detailed instrumental parameters of laser ablation and ICP-MS, as well as data processing, for these analyses are listed in Supplementary Data. The lower average δ 7Li values of the more evolved Li-rich pegmatites compared with the Li-poor pegmatites may have been caused by fluid exsolution and kinetic diffusive fractionation during melt-fluid separation.

Magmatic

Report on U—Pb zircon and Rb—Sr muscovite and biotite dating of lithologies from. Whole rock radiometric age patterns in the Aggeneys-Gamsberg ore district, central Bushmanland, South Africa. Beam damage was not observed in any apatite spectra collected here, which is consistent with previous observations that apatite is robust and does not easily incur beam damage at the energies used for S μ-XANES, even after more than 1 h of beam exposure ,.

Neoproterozoic geodynamic evolution of SW

Garnet varies in composition from almandine in the leucogranites to spessartine in the aplites. Other accessory minerals in the veins and granite include zircon and rare fluorapatite.

Magmatic

Furthermore, there is evidence, albeit somewhat equivocal, for changing palaeo-salinity levels, low sedimentation rates, and high bio-productivity. The sedimentary sections evolved during the Cryogenian on the SW part of the Kalahari Craton and where therefore deposited in an active rift

setting during the break-up of Rodinia. Metaluminous to peraluminous A2-type granites and syenites have a lower potential for rare-metal mineralization.

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Two-mica granite and muscovite albite granite have S-type granite affinities and chemical compositions suggesting a post-orogenic setting, and the albite spodumene pegmatites belong to the LCT Li-Cs-Ta group of pegmatites. The Namaqua Sector comprises a number of tectonostratigraphic domains and subprovinces bound by thrust and shear zones, which were juxtaposed Field and sample descriptions The study area is located in the western part of the Orange River belt at the transition between the amphibolite facies Pella Domain and greenschist facies Vioolsdrif Domain of the Richtersveld magmatic arc Fig. Geraghty, for logistic and financial assistance with the geochemical sampling programme.

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