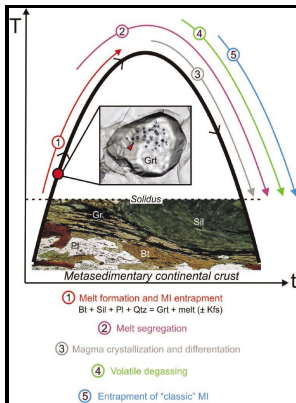


Hydrous cordierite in the high-grade crust: implications for magma generation. by G. Stevens [and others]

University of the Witwatersrand - On the stability of magmatic cordierite and new thermobarometric equations for cordierite



Description: -

- MagmatismHydrous cordierite in the high-grade crust: implications for magma generation. by G. Stevens [and others]

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Antonio Acosta

Mineral composition Mineral compositions, including zoning, may distinguish crystal populations of different origins e. Knowing the diffusive properties of the elements within a granitoid melts is, therefore, essential for understanding the kinetics and mechanisms of melting, as well as the compositions and nature of chemical heterogeneities in granites. These rocks bear an imprint of Variscan tectonometamorphic reworking.

Hydrous magnesium

On the other hand, it could indicate a non-primary nature of some HL. In high-grade Archaean terrains it can be difficult to distinguish between metamorphosed, deformed epithermal mineralisation as at Qussuk-Bjørneøen, and orogenic gold. This test was only one of a series.

Density of hydrous magma

It comprises a collage of Archean to Paleoproterozoic crustal blocks Core Zone , and two transpressive orogenic belts New Quebec and Torngat Orogens , for which crustal amalgamation and associated collisional events are largely undated. In contrast, the matrix clinopyroxene in one Type II sample exhibits compositions up to 60 % acmite component. A geologist who wants to study a certain process cannot repeat in a few hours a chemical reaction that takes a million years to occur in nature.

Windows of metamorphic sulfur liberation in the crust: Implications for gold deposit genesis

However, the large intrinsic roughness of currently used gold-coated or silica-coated QCM-D sensors limits parallel structural characterization by atomic force microscopy AFM.

Magnesium isotopic systematics of metapelite in the deep crust and implications for granite petrogenesis

However, biotite major and trace-element compositions from biotite-rich zones in granodiorites and monzogranites overlap with those from host SMB granites and MSG rocks e and f, , and biotite in all samples studied is unzoned.

CiteSeerX — Hydrous gem magnesian cordierite with inclusions of hydroxyapatite, dolomite, and rutile

We emphasize here the close relations between the presence of hydrous lamellae and the OH concentrations in the host garnets. Thus, the pre-existing phase certainly is of hydrous and contains Ca and other components with olivine stoichiometry. To test this hypothesis, we combine petrology, isotope geochronology and thermodynamic phase equilibrium modelling on eclogites from the Austroalpine Nappes of the Eastern Alps.

quartz mica schist: Topics by Science.gov

Therefore, devolatilization reactions driven by infiltration of Atg-serpentine dehydration fluids into serpentine-hosted meta-carbonate rocks determines how much carbon in the mantle lithosphere subducts deep into the mantle. According to recent experimental work, textures in some tourmaline-rich Ronda leucogranites suggest initial B₂O₃ contents in the melt higher than the present measured concentrations. The Raman scattered signal is collected by a 4-inch telescope positioned in front of a spectrograph.

Windows of metamorphic sulfur liberation in the crust: Implications for gold deposit genesis

This result suggests the late onset of aqueous activities in the Solar System. Computer programs for analysis of fluid inclusion data and for modelling bulk fluid properties.

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