

Geowissenschaftliches Kolloquium

Thermal expansion of transition metal olivines

Donnerstag, 5. Juli 2018 - 16.15 Uhr

Peter Schmid-Beurmann

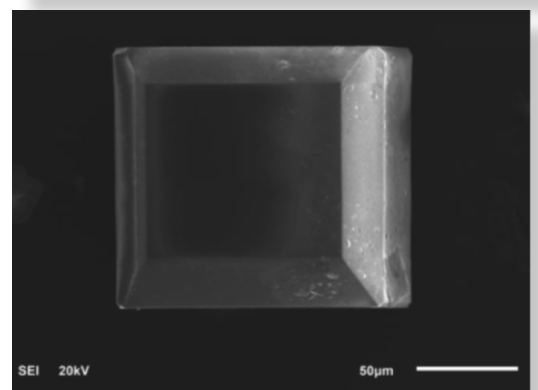
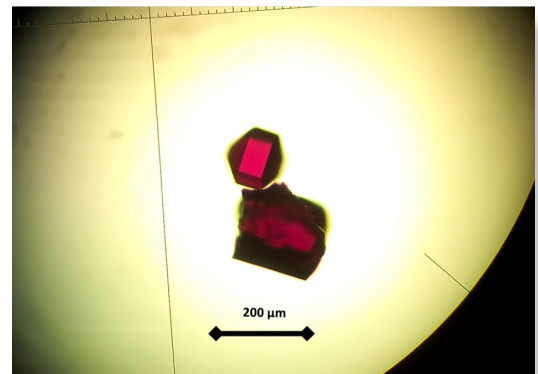
Universität Münster

In order to complete the data set for comparing the thermal behaviour of end-member olivines containing cations of the transition element series Mn (3d5), Fe (3d6), Co (3d7), Ni (3d8 subshell) the thermal expansivity of Co and Ni olivine has been studied by powder diffraction at ambient pressure and temperatures between 25°C and 1000°C. The anisotropy of the thermal expansion was analyzed using the Kumar equation-of-state (EoS) coupled with the thermal Mie-Grüneisen EoS.



Curriculum vitae (selection):

- 1990 Promotion
- 1988 - 1991 Research group HT-super conductivity
- 1999 Habilitation (Christian-Albrechts-Universität Kiel)
- 2005 - 2023 Department of Mineralogy, University Münster, mineralogical Kustos of GeoMuseum (Opening presumably 2019)



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