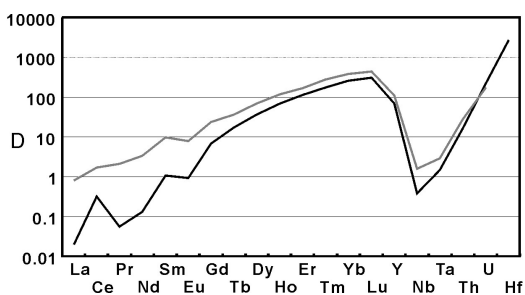


Zircon/rock partition coefficients of 20 trace elements in granitic rocks

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20 trace elements in 264 zircons from 13 granitic rocks were measured using laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS). The trace elements in host rocks were determined using solution-ICP-MS. The average ratios of the trace element contents in zircons versus the contents in the host rocks (D) obtained in this study are: La 0.02, Ce 0.32, Pr 0.06, Nd 0.13, Sm 1.06, Eu 0.92, Gd 6.81, Tb 17, Dy 36.7, Ho 69.1, Er 113, Tm 172, Yb 255, Lu 310, Hf 2752, Y 70.5, Nb 0.39, Ta 1.46, Th 16, U 224 and Hf 54321. These partition coefficients are comparable with published data (L.V.S. Nardi *et al*, 2013) for Dy, Ho, Er, Tm, Yb, Lu, Y, Ta, Th and U except for La, Ce, Pr, Nd, Sm, Eu, Gd, Tb and Ta. The large difference between the obtained and the published for light REEs may be caused by apatite inclusions in zircons in published data, which show no Ce-positive anomalies and relative less light REEs depletion in chondrite normalized REE plot of zircon grains.



Zircon/rock partition coefficients (D) obtained in this study (black line) and comparative value (grey line, L.V.S. Nardi *et al*, 2013)

[1] L.V.S. Nardi, M.L.L. Formoso, I.L.Muller, E. Fontana, K. Jarvis, C. Lamarao, 2013. Zircon/rock partition coefficients of REEs, Y, Th, U, Nb, and Ta in granitic rocks: Uses for provenance and mineral exploration purpose. *Chemical Geology* 335, 1-7.