

Fundamental approach to the separation and purification of yttrium from Bangka xenotime

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Abstrak

Separation and purification of yttrium from several rare earth elements available in rare earth mineral xenotime employing combined separation methods. In this study, rare earth mixtures and reagent grade synthetic materials were used instead of actual origin xenotime mineral samples. The concentration ration of each rare earth in the mixture was proportional to that of the rare earth mineral xenotime found on Bangka Island. Crystals of yttrium with a purity of 99,9% were obtained which indicates a successful separation of yttrium from the rare earth elements.