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Presentation Title

Role of Rare Metals in Material Technology and the Way to Substitute them

Abstract

21st century is the century of innovation. Materials technology gives great contribute to innovation. Rare earth elements and rare metals have the possibility of novel functions which realize our dream on energy and environmental issue. In the presentation, Role of rare earth elements in NIMS research is presented as examples. The direction of the substitution of rare metals in to abundant metals is introduced. The fundamental approaches of reduce and alternative technology of rare earth elements and rare metals is also mentioned.