Siam Physics Congress 2017



Contribution ID: 359 Type: Poster

The investigation physical and electric properties of Mg1-xMnxFe2O4 ceramics

Thursday 25 May 2017 17:45 (15 minutes)

We have reported physical and electric properties of Mg1-xMnxFe2O4 (MMF) (x=0.5 - 0.7) ceramics were prepared using co–precipitation method. The effects of Mn content on the phase formation, morphology, density and electrical properties were investigated. The XRD analysis of the as synthesized powder confirms the formation of the single phase MgMnFe2O4 spinel structure. The microstructure exhibited a rectangular square grain in all samples. The average grain size and the density of the ceramics increased from 2.8 to 8.7 μ m and 3.35 –3.59 g/cm3 by increasing Mn content. The dielectric constant and dielectric loss decreases with increasing frequency but these parameters increase with increasing temperature.

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Session Classification: Poster Presentation II

Track Classification: Material Physics and Functional Materials