Microstucture and Dielectric Properties of (1-x)BaTiO3-xBa(Mg1/3Nb2/3)O3 Ceramics

Anocha Munpakdee

Chiang Mai University - + 66

Abstract

The evolutions of phase, microstucture and dielectric properties of solid solution of BaTiO3 and Ba(Mg1/3Nb2/3)O3 were studied. From the result, the solid solutions exhibit the ferroelectric phase for low additions of Ba(Mg1/3Nb2/3)O3 (0-4 mol%) while for high additions (over 4 mol%) the samples show the paraelectric state at room temperature. The relative permittivity of 2 mol% doped specimens was found to be considerably highest about 40000 at 98 oC.