티타늄 합침에 의한 (Zn1-xNix)2TiO4 스피넬 세라믹스
Titanium Incorporation in (Zn1-xNix)2TiO4 Spinel Ceramics

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Composition in the (Zn1-xNix)2TiO4 + yTiO2 system (x=0~0.5, y=0~0.35) were synthesized via the solid-state reaction route. The incorporation of titanium, in the form of TiO2, in (Zn1-xNix)2TiO4 spinel ceramics were investigated by analyzing the crystal structure and measuring the dielectric properties. The result of the crystal structure analysis suggested that TiO2 level of 0.01 y 0.33 could be incorporated into the (Zn1-xNix)2TiO4 spinel. The change of incorporated TiO2 level is related with Co-content as a inverse proportion and the variation of lattice parameter and dielectric properties were supported the result.