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Elaboration and characterization of a piezoelectric ceramic resonator

A.Khiat, M.Kadri, S.Hamzaoui

Abstract : In this work. We Synthesized PbTiO₃ from PbO and TiO₂ oxides from Solid state reaction and we studied the development and manufacture of solid piezoelectric resonator of PT. We played on parameter sintering time. We used XRD and SEM for morphological characterization and Analyzer for impedance piezoelectric characterization.

Keywords : PT, ferroelectric, resonator, impedance, XRD, SEM