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Abstract
In this thesis,Pb(Zr,Ti)O3 and PbO was discussed for doping compositions characterization, the densities of low PbO-doping compositions increases with increasing of sintering temperature, and reach a maximum value nearly equally to 97.5% of theoretical value at 1200oC, then decrease with increasing of sintering temperature. But the densities of other high PbO doping compositions were nearly constant with the sintering temperature, but they are much lower than that of low PbO doping compositions. The PbO loss of high PbO doping compositions was much higher, and the loss percentage was increased with increasing of sintering temperature and PbO doping amount.
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