Study of Microstructure of Piezoelectrics
BaTiO$_3$, PbTiO$_3$ and Pb(Ti$_x$Zr$_{1-x}$)O$_3$
Prepared by Solid Solution and Liquid Phase Methods

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Abstract: Samples of BaTiO$_3$, PbTiO$_3$, and Pb(Ti$_x$Zr$_{1-x}$)O$_3$ ($x=0.47$) was prepared using solid and liquid phase methods. Microstructure study of these samples show a higher degree of homogeneity, higher density and reactivity in samples made by solutions phase method as compared to the solid phase technique.