

No. 1C-a29 $\text{SrTiO}_3\text{--PbTiO}_3$

1b Phase diagram: Fig. 1C-a29-001.

3a Lattice parameters: Fig. 1C-a29-002.

5a Dielectric constant: Fig. 1C-a29-003, Fig. 1C-a29-004.
Pressure effect on transition temperature: Fig. 1C-a29-005.
Effect of E_{bias} : see

68Dib

6a Transition heat: Fig. 1C-a29-006.

9a Light transmission: Fig. 1C-a29-007.

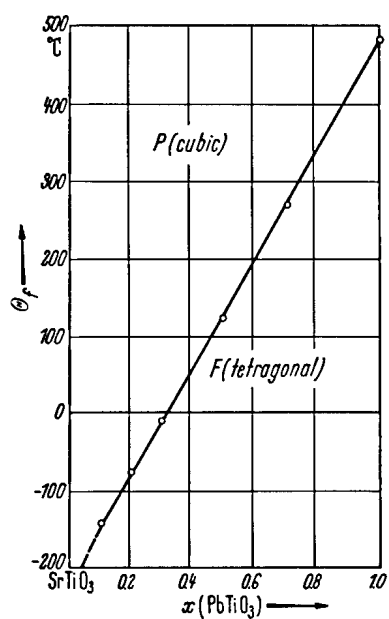


Fig. 1C-a29-001. $(\text{Sr}_{1-x}\text{Pb}_x)\text{TiO}_3$. Θ_F vs. x [55Nom].

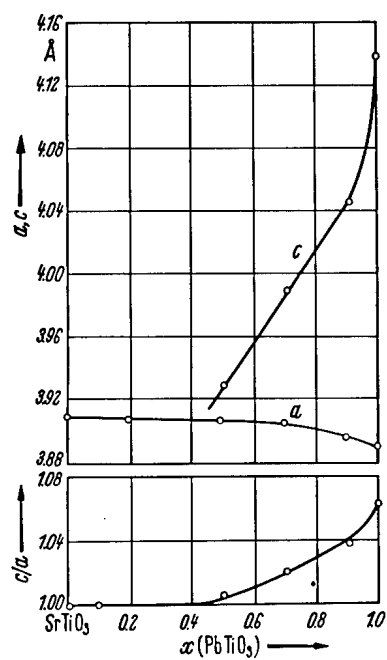


Fig. 1C-a29-002. $(\text{Sr}_{1-x}\text{Pb}_x)\text{TiO}_3$, a , c , a/c vs. x [55Nom].

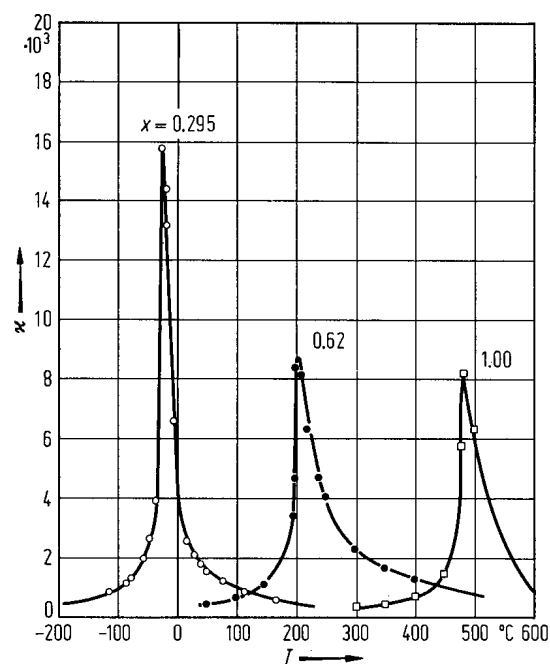


Fig. 1C-a29-003. $(\text{Sr}_{1-x}\text{Pb}_x)\text{TiO}_3$. κ vs. T [68Dib].
Parameter: x . $f = 1$ kHz. Crystals were grown by travelling-heater method.

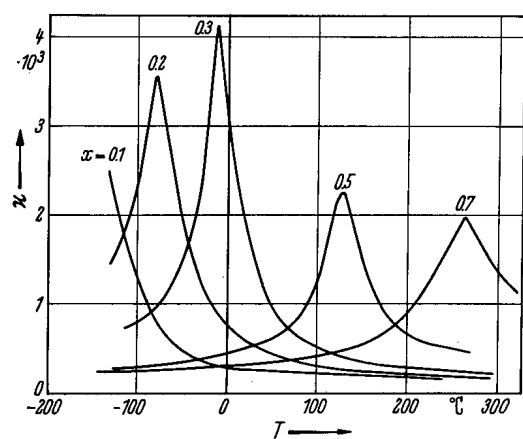


Fig. 1C-a29-004. $(\text{Sr}_{1-x}\text{Pb}_x)\text{TiO}_3$ (ceramics). κ vs. T [55Nom]. Parameter: $x, f = 1043$ kHz.

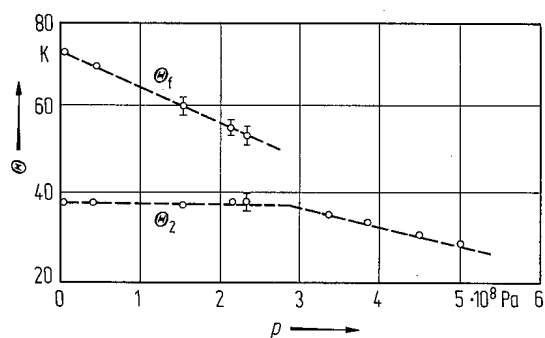


Fig. 1C-a29-005. $(\text{Sr}_{0.96}\text{Pb}_{0.04})\text{TiO}_3$. Θ vs. p [76Mar]. p : hydrostatic pressure. The meaning of Θ_2 is not clear.

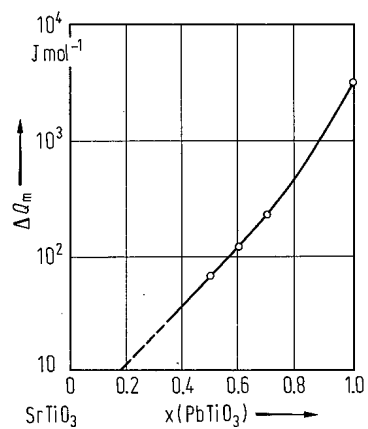


Fig. 1C-a29-006. $(\text{Sr}_{1-x}\text{Pb}_x)\text{TiO}_3$, ΔQ_m vs. x [55Nom]. ΔQ_m : molar transition heat.

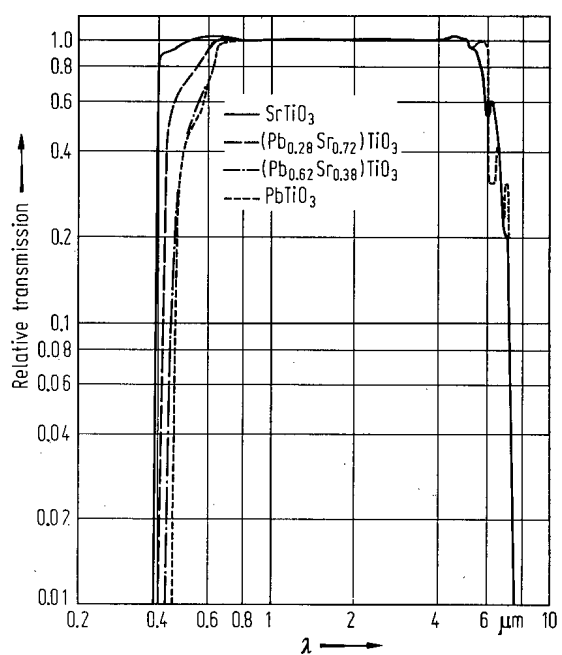


Fig. 1C-a29-007. $(\text{Sr}_{1-x}\text{Pb}_x)\text{TiO}_3$. Relative transmission vs. λ [68Dib]. Sample thickness: 1.2 mm.

References

- 55Nom Nomura, S., Sawada, S.: J. Phys. Soc. Jpn. **10** (1955) 108.
68Dib Dibeneditto, B., Cronan, C.J.: J. Am. Ceram. Soc. **51** (1968) 364.
76Mar Martin, G., Hegenbarth, E., Fritsberg, V.Ya., Romanovskii, T.B.: Fiz. Tverd. Tela **18** (1976) 248; Sov. Phys. Solid State (English Transl.) **18** (1976) 143.