
No. 1C-a42 BaTiO₃–BaZrO₃

1b Phase diagram: Fig. 1C-a42-001.

3a Lattice parameters: Fig. 1C-a42-002.

5a Dielectric constant: Fig. 1C-a42-003.
Pressure effect on dielectric property: Fig. 1C-a42-004.
Dielectric relaxation: Fig. 1C-a42-005.
Diffuse transition: see

82Hen

c Remanent polarization: Fig. 1C-a42-006.

8a Frequency constant: Fig. 1C-a42-007.
Surface wave velocity: Fig. 1C-a42-008.

15a Domain observation: see

82Kom

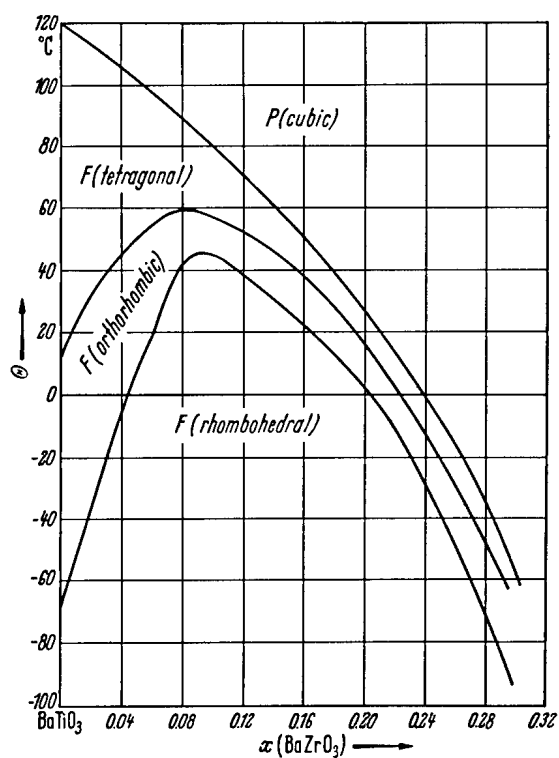


Fig. 1C-a42-001. $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$. Θ vs. x [56Kel].

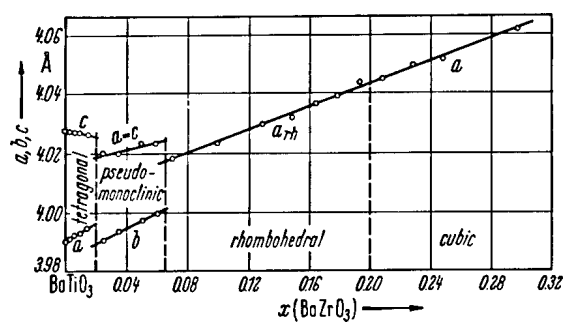


Fig. 1C-a42-002. $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$. Lattice parameters vs. x [58Ver].

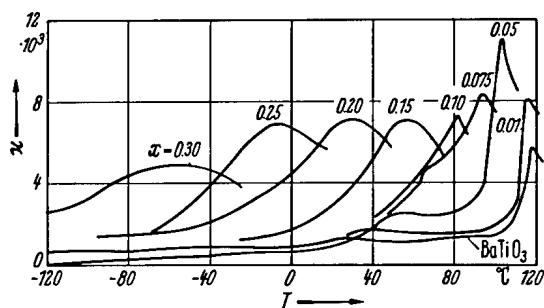


Fig. 1C-a42-003. $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ (ceramics). κ vs. T [56Kel]. Parameter: $x, f = 10$ kHz.

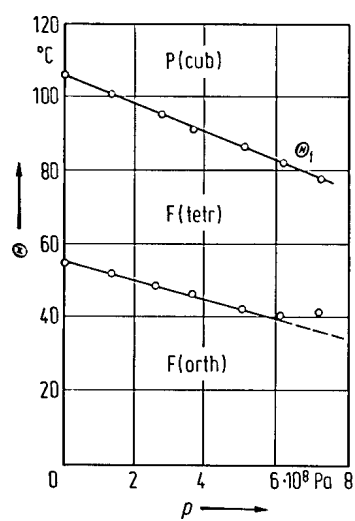


Fig. 1C-a42-004. $\text{Ba}(\text{Ti,Zr})\text{O}_3$. Θ vs. p [65Pol]. p : hydrostatic pressure.

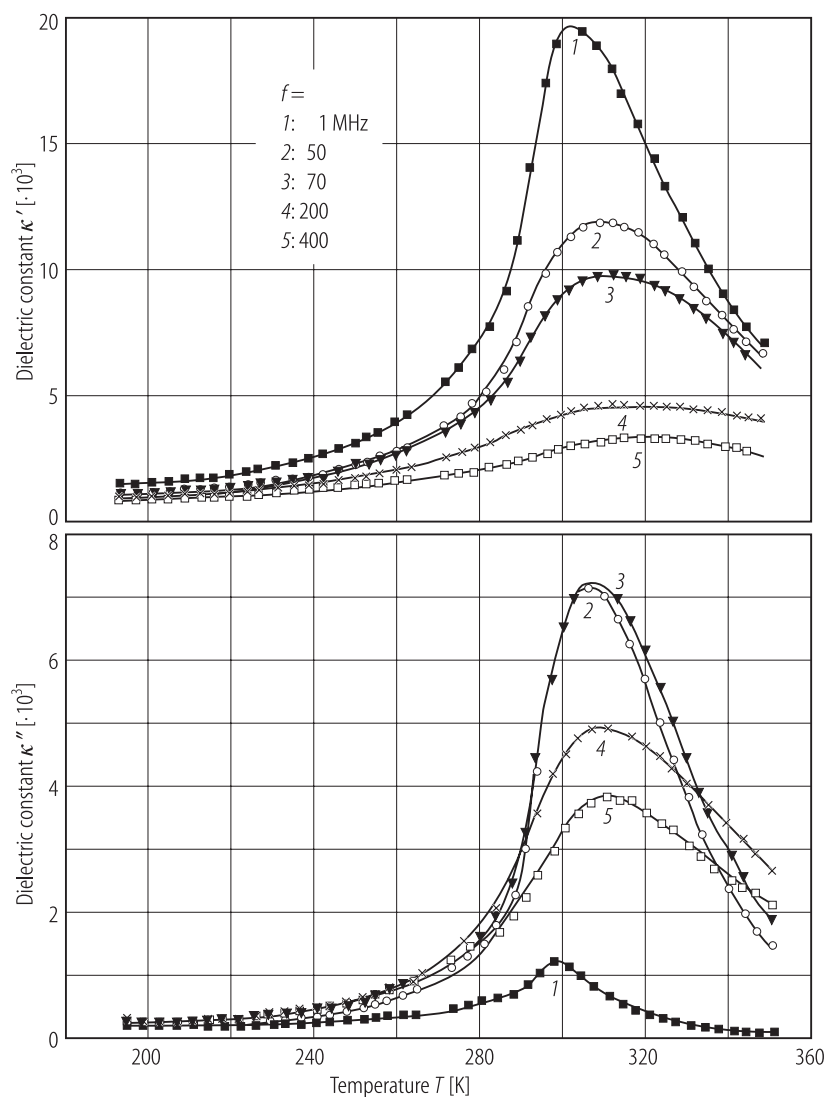


Fig. 1C-a42-005. $\text{Ba}(\text{Ti}_{0.8}\text{Zr}_{0.2})\text{O}_3$ (ceramics). κ' , κ'' vs. T [93Kaz]. Parameter: f . Specimen was prepared by sol-gel method and sintered at 1300 °C for 1 min.

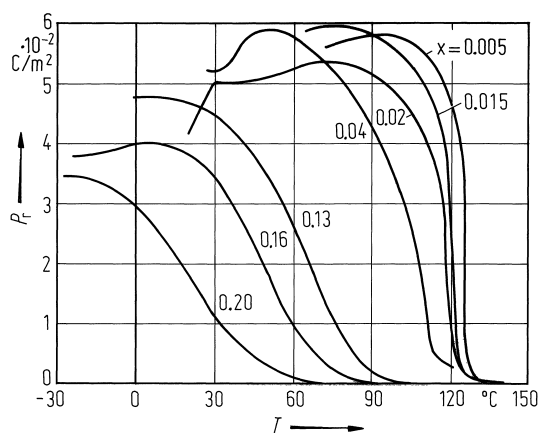


Fig. 1C-a42-006. $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ (ceramics). P_r vs. T [82Hen]. Parameter: x .

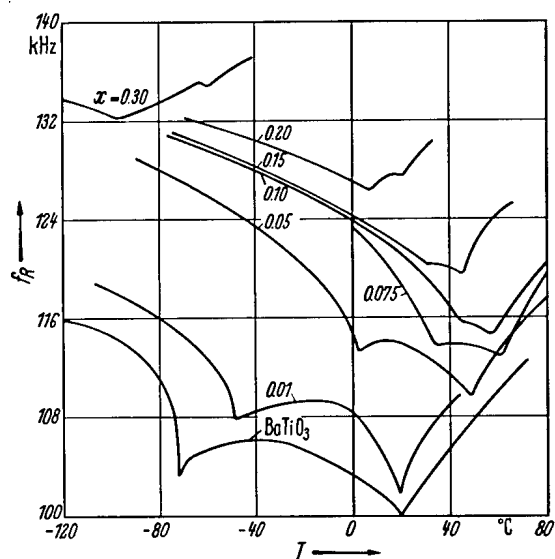


Fig. 1C-a42-007. $\text{Ba}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ (ceramics). f_R vs. T [56Kel]. Parameter: x . f_R : resonance frequency in radial-mode vibration.

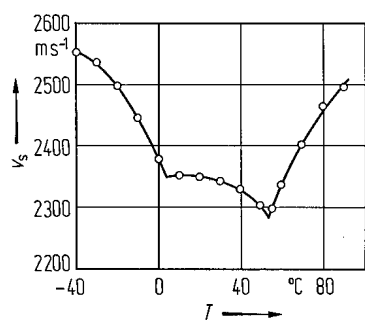


Fig. 1C-a42-008. $\text{Ba}(\text{Ti}_{0.95}\text{Zr}_{0.05})\text{O}_3$ (ceramics). v_s vs. T [72Tod]. v_s : surface acoustic wave velocity propagated on the surface of unpoled plate.

References

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