No. 1C-c41 $PbTiO_3$–$PbZrO_3$–$A(A'_{1/3}Nb_{2/3})O_3$ (A = Ba, Sr; A' = Pb, Ca, Sr)

1b	Phase diagram: Fig. 1C-c41-001. Ferroelectric phase transition temperature: Fig. 1C-c41-002.	
3a	Unit cell parameter: Fig. 1C-c41-003.	
5a	Dielectric constant: Fig. 1C-c41-004.	
7a	Piezoelectricity: Fig. 1C-c41-004.	
9a	Transmittance: see	81Yok
b	Electrooptic effect: Table 1C-c41-001.	

Table 1C-c41-001. $(1-x)Pb(Zr_yTi_{1-y})O_3 \cdot x\ A(A'_{1/3}Nb_{2/3})O_3$ (ceramics) (A = Ba, Sr; A' = Ca, Sr). r_c, $\overline{L}$: Linear and quadratic electrooptic coefficients [81Yok].

Compounds				r_c	$\overline{L}$
A	A'	x	y	$[\cdot 10^{-10}\,mV^{-1}]$	$[\cdot 10^{-16}\,m^2V^{-2}]$
Ba	Sr	0.12	0.50	6.60	
Sr	Ca	0.12	0.50	4.02	
Ba	Ca	0.13	0.45	2.27	
Ba	Sr	0.15	0.50		5.11
Ba	Ca	0.18	0.50		1.10
Ba	Ca	0.25	0.30		0.70

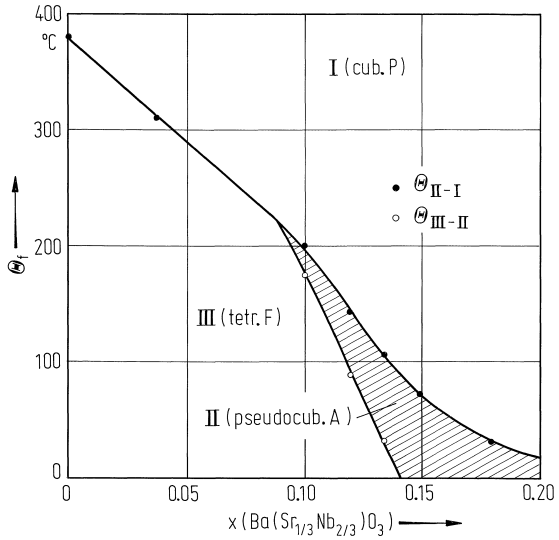

Fig. 1C-c41-001. (1–x)Pb($Zr_{0.5}Ti_{0.5}$)O_3·x Ba($Sr_{1/3}Nb_{2/3}$)O_3 (ceramics). Θ vs. x [81Yok].

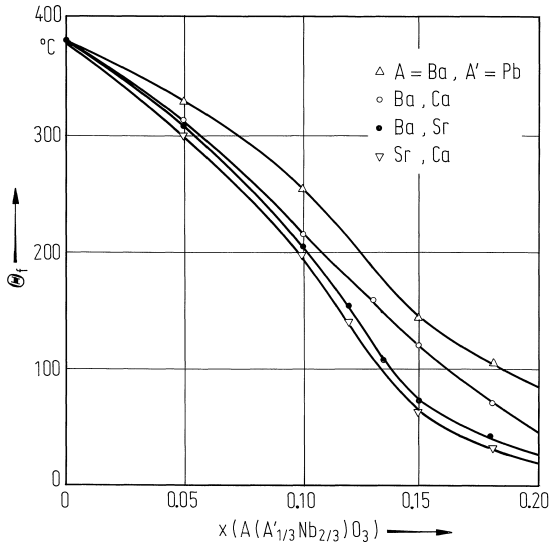

Fig. 1C-c41-002. $(1-x)Pb(Zr_{0.5}Ti_{0.5})O_3 \cdot x\ A(A'_{1/3}Nb_{2/3})O_3$ (ceramics) (A = Ba, Sr; A' = Pb, Ca, Sr). Θ_f vs. x [81Yok].

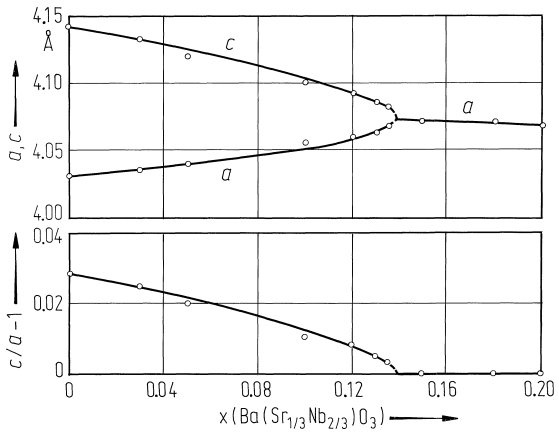

Fig. 1C-c41-003. (1–x)Pb($Zr_{0.5}Ti_{0.5}$)O_3·x Ba($Sr_{1/3}Nb_{2/3}$)O_3 (ceramics). *c*, *a*, *c*/*a*−1 vs. x [81Yok].

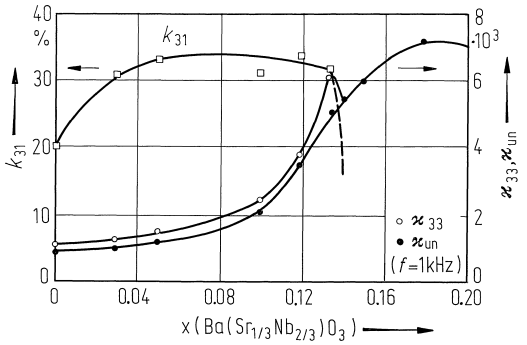

Fig. 1C-c41-004. (1–x)Pb($Zr_{0.5}Ti_{0.5}$)O_3· x Ba($Sr_{1/3}Nb_{2/3}$)O_3 (ceramics). k_{31}, κ_{33}, κ_{un} vs. x [81Yok]. κ_{un}: dielectric constant of unpoled specimen. f = 1 kHz.

Reference

81Yok Yokosuka, M., Miura, S., Ochiai, T., Marutake, M.: Jpn. J. Appl. Phys. **20**, Suppl. 20-4 (1981) 75.