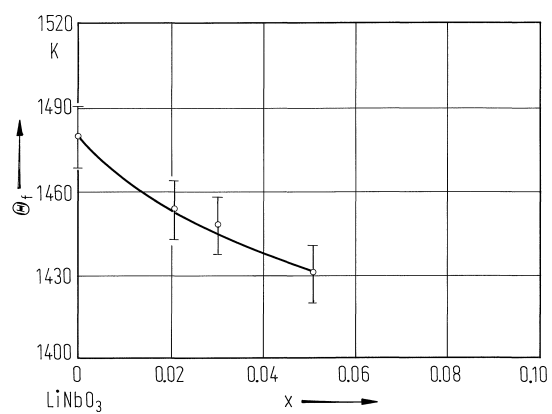


**No. 2B-5 LiNbO<sub>3</sub>–NaNbO<sub>3</sub>**

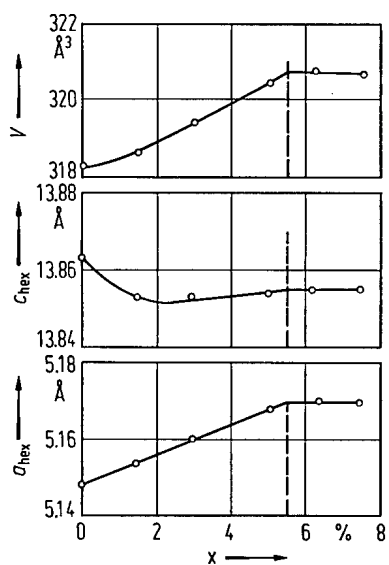
1b	Ferroelectric transition temperature: Fig. 2B-5-001.	
3a	Lattice parameter: Fig. 2B-5-002, Fig. 2B-5-003.	
b	Crystal structure: Table 2B-5-001.	
4	Thermal expansion: Fig. 2B-5-004.	
5a	Fig. 2B-5-005, Fig. 2B-5-006.	
8a	Surface acoustic wave: see	78Sta
16	Thin films grown by LPE: see	81Neu

**Table 2B-5-001.** (Li,Na)NbO<sub>3</sub>. Fractional atomic coordinates and temperature parameters of LiNbO<sub>3</sub> and Li<sub>0.95</sub>Na<sub>0.05</sub>NbO<sub>3</sub> in the space group R3c–C<sub>3v</sub><sup>6</sup> [76Gru]. *B* is defined by Eq. (e) in Introduction. The numbers in brackets are the standard deviations.

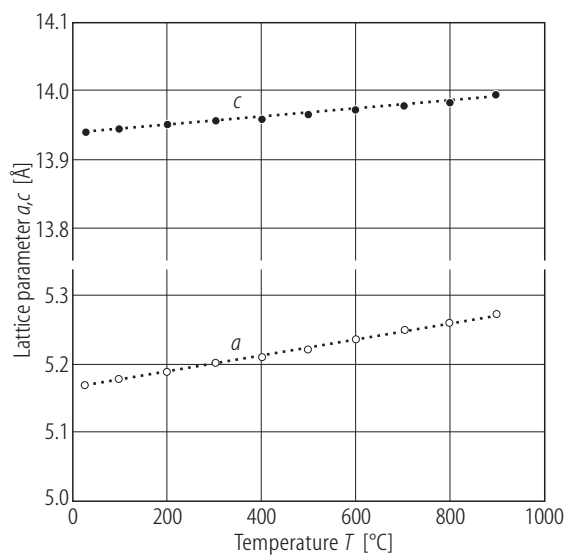
		LiNbO <sub>3</sub>	Li <sub>0.95</sub> Na <sub>0.05</sub> NbO <sub>3</sub>
Nb	<i>x</i>	0	0
	<i>y</i>	0	0
	<i>z</i>	0	0
	<i>B</i> [Å <sup>2</sup> ]	0.50(1)	0.50(7)
Li, Na	<i>x</i>	0	0
	<i>y</i>	0	0
	<i>z</i>	0.2829(23)	0.281(4)
	<i>B</i> [Å <sup>2</sup> ]	0.94(32)	1.5(9)
O	<i>x</i>	0.0492(4)	0.055(3)
	<i>y</i>	0.3446(5)	0.352(5)
	<i>z</i>	0.0647(4)	0.0595(8)
	<i>B</i> [Å <sup>2</sup> ]	0.43(2)	0.37(35)



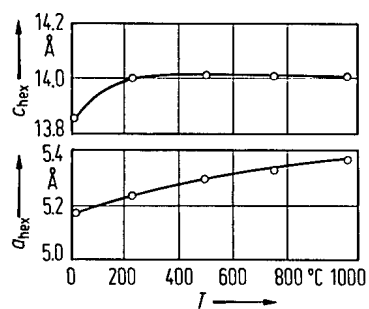
**Fig. 2B-5-001.**  $\text{Li}_{1-x}\text{Na}_x\text{NbO}_3$ ,  $\Theta_f$  vs.  $x$  [80Sad].



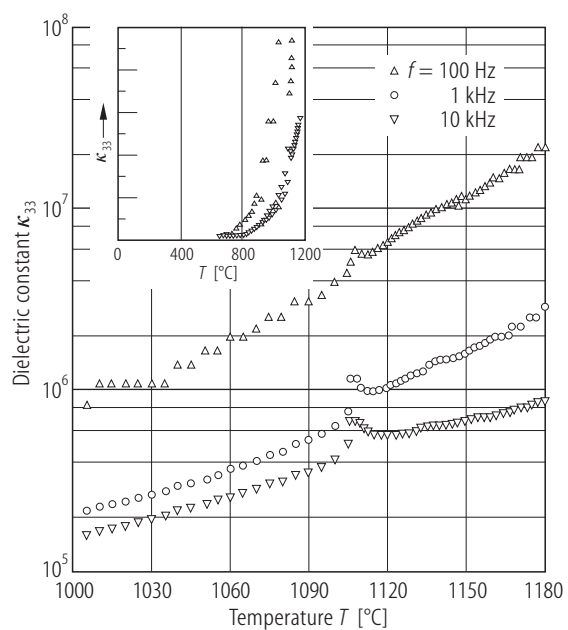
**Fig. 2B-5-002.**  $\text{Li}_{1-x}\text{Na}_x\text{NbO}_3$ . Lattice parameters vs.  $x$  [75Gru].



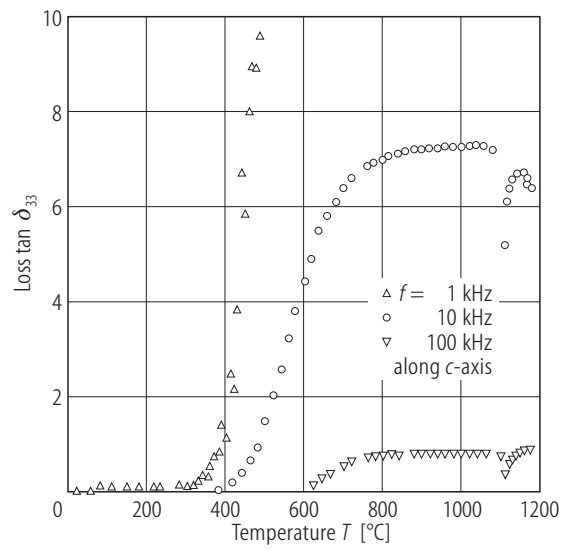
**Fig. 2B-5-003.**  $\text{Li}_{0.8}\text{Na}_{0.2}\text{NbO}_3$ .  $a$ ,  $c$  vs.  $T$  [94Kim].  $a$ ,  $c$ : hexagonal unit cell parameters.



**Fig. 2B-5-004.** Li<sub>0.95</sub>Na<sub>0.05</sub>NbO<sub>3</sub>. Lattice parameters vs.  $T$  [75Gru].



**Fig. 2B-5-005.**  $\text{Li}_{0.8}\text{Na}_{0.2}\text{NbO}_3$ .  $\kappa_{33}$  vs.  $T$  [94Kim]. Parameter:  $f$ .



**Fig. 2B-5-006.** Li<sub>0.8</sub>Na<sub>0.2</sub>NbO<sub>3</sub>.  $\tan \delta_{33}$  vs.  $T$  [94Kim].  
 Parameter:  $f$ .



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