SUPPLEMENTARY MATERIAL

Structure solution of the new titanate $Li_4Ti_8Ni_3O_{21}$ using precession electron diffraction.

Mauro Gemmi,[ab*] Holger Klein,[b] Amélie Rageau,[b] Pierre Strobel[b] and Fédéric Le Cras[c]

[a]Dipartimento di Scienze della Terra 'Ardito Desio' Università degli Studi di Milano, Via Botticelli 23, 20133 Milano , Italy, [b]Institut Néel, Universite Joseph Fourier and CNRS, 25 av. des Martyrs, BP 166, 38042 Grenoble Cedex 9, France, and [c]DRT/LITEN/LT2N, CEA-Grenoble, 17 av. des Martyrs, 38054 Grenoble Cedex 9, France. E-mail: mauro.gemmi@unimi.it

Table 1 Atomic position for the trigonal phase obtained by SIR2008 in the space group P-3c1 using precessed electron diffraction data.

Atom	x	y	z
M1	0	0	0.14422
M2	1/3	2/3	0.21777
M3	2/3	1/3	0.07746
M4	1/3	2/3	0.00860
M5	0	0	0.06483
M6	1/3	2/3	0.13164
LI1	-1/3	1/3	0.20420
Li2	0	0	0.23200
O1	-0.26940	0.99328	0.10607
O2	-0.33671	0	1/4
O3	-0.33663	0.71703	0.17815
O4	-0.33355	0.60755	0.03415