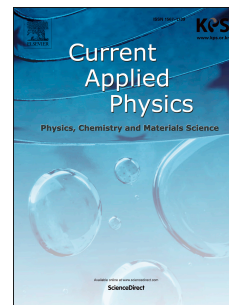


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# Irreversible phase transition characteristic of 0.91Pb(Zn<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-0.09PbTiO<sub>3</sub> single crystals by domain observation

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**Abstract:** In situ temperature dependent ferroelectric domains dynamic evolution of the (001)<sub>pc</sub> oriented 0.91Pb(Zn<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-0.09PbTiO<sub>3</sub> (PZNT91/9) single crystals was observed by polarized light microscopy (PLM) and real time synchrotron-radiation (SR) X-ray white-beam topography. Intricate domain structures including monoclinic

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