

Abstract Submitted
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Thermoluminescence during phase transition POONEH SAADATKIA, JIANFENG JI, KSENIJA GLUSAC, FARIDA SELIM, Bowling Green State Univ — Low-temperature thermoluminescence (TL) has been applied to investigate the behavior of red emission in SrTiO_3 bulk single crystals during phase transition. We observed a TL peak close to the phase transition temperature which makes the peak very narrow in terms of temperature and wavelength. Also, different heating rates have been used to study the unusual behavior for kinetics of TL process in SrTiO_3 . The measurements reveal that by increasing the heating rate the TL peak shifted to the lower temperatures which is not commonly observed in other materials.

Pooneh Saadatkia
Bowling Green State Univ

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