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Stimulated Polarization in LiNbO_3 and $\text{Ba}_2\text{NaNb}_5\text{O}_{15}$ Crystals

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Abstract: Thermally Stimulated Conductivity (TSC) and thermoelectret state in LiNbO_3 and $\text{Ba}_2\text{NaNb}_5\text{O}_{15}$ were measured as a function of temperature and time in dark and under UV excitation at liquid nitrogen temperature. Effect of polarization and the other external influences on thermoelectret were investigated. The thermal activation energy levels of traps were determined from TSC measurements as well as parameters (electric field, temperature, etc.) which are necessary for characterizing thermoelectrets were obtained.



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