

Dynamics of ferroelectric domains in $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Br}_{11}$ studied by liquid crystal decoration technique.

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Abstract The switching process in $(\text{NH}_3\text{CH}_3)_5\text{Bi}_2\text{Br}_{11}$ single crystals was investigated using nematic liquid crystal decoration technique. Polarization reversal measurements were carried out in the dc electric fields up to 1200 V/cm and within the temperature range from 296 to 308 K. It was found that the time of total switching τ_S obeys the following exponential law: $1/\tau_S = 1/\sigma \exp(-\alpha/E)$. Two, or three linear parts on the $\ln(1/\tau)$ vs. $1/E$ plots with various activation fields were observed...

Adres publiczny

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