



AC and DC conductivity around the ferroelectric phase transition in $(\text{CH}_3\text{NH}_3)_3\text{Bi}_2\text{Br}_9$ (MABB) crystal.

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Streszczenie

The temperature dependence of dc and ac conductivity in the vicinity of $T_{c3} = 112.5$ K (on heating) for the MABB crystal was measured. For ac conductivity the frequencies between 20 Hz and 1 MHz were applied. The behaviour of conductivity was explained by means of power law $[\sigma]_{ac} = [\sigma]_{dc} + A\omega^p$, where ω is the frequency and $p \ll 1$. The activation energies both for dc and ac conductivity were estimated.

Słowa kluczowe

ferroelectric, dc conductivity, ac conductivity, ionic conductors

Adres publiczny

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