

ELECTRO-OPTIC EFFECT IN THE GYROTROPIC α -Hg₃S₂Cl₂: APPLIED ASPECTS

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Abstract

This paper introduces potential applications of optical parameters of α -Hg₃S₂Cl₂ in the creation of multi-functional elements for optical devices, demonstrates proof of principle, discusses potential applications in nanophysics, and suggests areas of further research and development. Structural and optical features of the crystal under investigation are analyzed in details. The electro-optic effect in the gyrotropic α -Hg₃S₂Cl₂ is discussed as a principal physical phenomenon for acoustical-optical devices.

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