

Luminescence and Photoconductivity Caused by Antisite Defects in CdIn₂S₄ Single Crystals

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Abstract

Results of a study of the influence of nonstoichiometry as well as of annealing and argon ion implantation on photoluminescence and photoconductivity spectra of cadmium thioindate single crystals are presented. The energy positions of levels of antisite In_{cd} and Cd_{In} defects are found. The role of antisite defects in the process of conductivity compensation is analysed.