

LUMINESCENCE OF THIN FILMS OF LEAD AND BISMUTH TUNGSTATES

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S u m m a r y

Luminescence spectra of thin PbWO_4 and Bi_2WO_6 films are investigated under photo-, X-ray, and laser excitations. They have the same structure and centers of luminescence bound with tungstate groups. The interpretation of separate elementary bands with maxima at 2.80, 2.35, and 1.75 eV in PbWO_4 films and 2.93, 2.35, and 1.90 eV in Bi_2WO_6 films is presented. It is shown that both long-wave bands of a luminescence are bound with centers, which composition includes the oxygen vacancy. We have found luminescence arises in films PbWO_4 and Bi_2WO_6 at the expense of sensitization of the chosen centers by ions Pb^{2+} and Bi^{3+} , respectively.