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Study of Emission Parameters of Ir(III)-Ba Film System

F. K. YUSIFOV, A. K. ORUJOV

Baku State University, Baku 370145, AZERBAIJAN

Abstract: Electrophysical properties of Ir(III)-Ba metal-film system have been studied by thermoionic emission (TE), surface ionization (SI) and thermal desorption spectroscopy (TDS) methods. It has been found that the optimum coverage of barium atoms on iridium (III) face is $\theta_{opt} = 0.70 \pm 0.05$. The dependence of fractional charge of Richardson constant of Ir(III)-Ba metal-film system on coverage θ of the Ba atoms in the interval $0 \leq \theta \leq 1$ has been experimentally obtained. The dependence of work function of Ir(III)-Ba metal-film system on coverage θ of Ba atoms has been obtained.

 [Keywords](#)
 [Authors](#)



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