

Thematic direction: Hydrochemical properties of chalcogenide metal films. Part 4.

Research into the structure, morphology, element and phase composition of chemically precipitated films PbSe, SnSe and sandwich-structures on their basis

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Abstract

The kinetics of growth, structure, composition and morphology of chemically precipitated films PbSe and SnSe have been investigated. The effect of adding lead selenide, sensitizers into the reaction mixture of ammonium iodide on the film structure has been established. Differences in crystalline structure and morphology of the films of individual solenoids of metals and multi-layer sandwich-structures (PbSe–SnSe)_n have been defined. There has been established the reduction of mid-sizes of crystallites of lead selenide in the content of sandwich-structures as compared to the individual layer of PbSe from 900–1200 nm to 200 nm.