ABSTRACT

Report of pre-graduation practice: 43 pages, 17 figures, 4 tables, 49 references.

The aim of the work: to study experimental and theoretical studies of phase transitions in Ag/Ti two-layer thin-film system during annealing in vacuum.

The object of the research: double layer compositions of nanoscale structures of Ag-Ti during annealing.

Methods: a method of electron microscopy to the light and electron diffraction.

Practical value: The results have practical use in technological processes of experiments in biomedicine.

The results and their novelty: The phase transformation in the Ag/Ti two-layer nanoscale structures by electron microscopy obtained by condensation in a vacuum. The results are of practical importance for the development of new materials for use in biomedical engineering and thin film transistors.

PHASE TRANSFORMATION; INTERDIFFUSION; THERMAL STABILITY; NANOSCALE; Ag/Ti; SPUTTERING; DOUBLE LAYER; MICROSTRUCTURE; ELECTRON DIFFRACTION; MORPHOLOGY.