

## **MODIFICATION OF THE CARBON STRIPPER FOILS NANOSTRUCTURE WITH THE AIM OF RADIATION RESISTANCE IMPROVEMENT**

**A.V. Vasin, E.N. Mozhzhukhin, G.N. Kozeratskaya, A.V. Rusavsky, Y.I. Totsky**

The problem of the radiation resistance of the carbon stripper foils is considered. The short historical review and original experimental results of the authors are given. It is considered the correlation of radiation resistance of carbon foils and distribution of the graphitelike nanocrystallites orientations. Raman scattering and atom force microscopy were used for investigation of the carbon films deposited by dc-magnetron sputtering. It is established that the intensity of the ion bombardment during deposition process is a basic technological parameter determining the primary orientation of the graphitelike nanocrystalites.