

SYNTHESIS OF NANOSTRUCTURES UNDER ACTION OF THE STRONGLY OVERSTRAINED NANOSECOND DISCHARGE IN THE AIR ATMOSPHERIC PRESSURE

The conditions for the deposition of metal nanostructures as a result of sputtering the electrode material of a highly over-stressed high-current nanosecond discharge between copper electrodes in atmospheric pressure air are given. It is shown that this discharge is a selective source of UV radiation in the spectral range of 200-230 nm on the transitions of copper and zinc atoms and ions. On the surface of glass substrates, nanostructured film are synthesized. Transmission spectra and photoluminescence spectra of film obtained by sputtering copper electrodes

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