





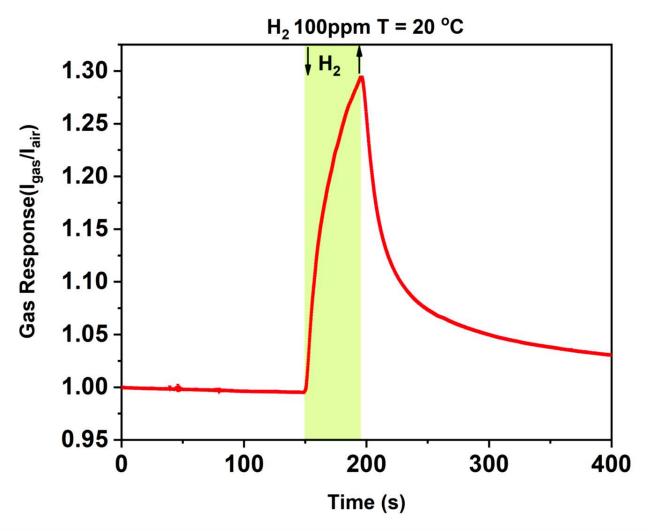


ZnO:Eu FILMS **FUNCTIONALIZED WITH Pd** FOR ROOM TEMPERATURE H2 SENSORS

Patents: no. 1974 MD, of 05.11.2019;

Authors: engineer Cristian LUPAN; Dr.hab., prof.univ.Viorel TROFIM;

The invention relates to the technology for deposition of semiconductor oxide films, in particular to the process of obtaining of ZnO:Eu3+ films, with application of rapid thermal annealing (T=650 °C, t=60s), with can be applied to the manufacture of gas sensors obtaining sensibility S=I_gas/I_air =1.3 for 100 ppm H2 gas at room temperature and S=I gas/I air =118 at operating temperature of 250 oC.



Concept of ZnO:Eu FILMS FUNCTIONALIZED WITH Pd FOR ROOM TEMPERATURE H2 SENSORS.

Contact: Department of Microelectronics and Biomedical Engineering

Phone: +373 22 50 99 14, e-mail: cristian.lupan@mib.utm.md