

AIR DETOXICATION BY THE HETEROPHASE OXIDATION OF ORGANIC COMPOUNDS ON TITANIUM OXIDE DISPERSION

A.P. Kondratov, V.G. Nazarov, V.A. Prokopenko, G.I. Sigeykin

Interdepartmental Center of Analytical Researches in the Field of Physics, Chemistry and Biology at Presidium of the Russian Academy of Sciences

The particularities of construction of laboratory flow reactor for study of regularities of heterophase photocatalytic oxidation of vapours of toxic organic compounds and gases in low temperature plasma of corona discharge, containing ozone, are considered. The physical and physicochemical principles of air treatment, which are used for disinfecting of inner volume air of premises in the presence of people, are formulated.