

HYDROGEN PRODUCTION IN PHOTOLYSIS OF AQUEOUS MANGANESE(II) BICARBONATE

**K. TENNAKONE, J.M.S. BANDARA, C.T.K. THAMINIMULLA,
W.C.B. KIRIDENA and A. PRIYADHARSHANA**
Institute of Fundamental Studies, Hantana Road, Kandy, Sri Lanka.

ABSTRACT

Photolysis of an aqueous solution of manganese(II) bicarbonate is found to generate hydrogen with precipitation of manganese(III) hydrous oxide. Manganese(III) hydrous oxide in turn is found to photoreduce water with concomitant oxidation to manganese dioxide. Reaction Mechanisms are discussed.