

## Adsorption Tests of Two Industrial Dyes by Metallic Hydroxyds

**Authors :** R. Berrached, H. Ait Mahamed, A. Iddou

**Abstract :** Water pollution is nowadays a serious problem, due to the increasing scarcity of water and thus to the impact induced by such pollution on the human health. Various techniques are made use of to deal with water pollution. Among the most used ones, some can be enumerated: the bacterian bed, the activated mud, the Lagunage as biological processes and coagulation-floculation as a physic-chemical process. These processes are very expensive and an treatment efficiency which decreases along with the increase of the initial pollutants' concentration. This is the reason why research has been reoriented towards the use of a process by adsorption as an alternative solution instead of the other traditional processes. In our study, we have tempted to exploit the characteristics of two metallic hydroxides Al and Fe to purify contaminated water by two industrial dyes SBL blue and SRL-150 orange. Results have shown the efficiency of the two materials on the blue SBL dye.

**Keywords :** Metallic Hydroxydes, industrial dyes, purification, lagunage

**Conference Title :** ICEPTT 2015 : International Conference on Environmental Pollution and Treatment Technology

**Conference Location :** Istanbul, Türkiye

**Conference Dates :** January 26-27, 2015