



# **Journal of Applicable Chemistry**

2013, 2 (3): 475-485

(International Peer Reviewed Journal)



## **Adsorption of Heavy Metals: A review**

**Sureshkumar Halnor<sup>1</sup> and Milind Ubale<sup>2\*</sup>**

1. Department of Chemistry, Padmashri Doctor Vithalrao Vikhe Patil College of Engineering, Ahmednagar (M.S.), **INDIA**
2. Post Graduate Department of Chemistry, Vasantnao Naik Mahavidyalaya, Aurangabad (M.S.), **INDIA**

Email: [mbubale@yahoo.com](mailto:mbubale@yahoo.com)

Received on 30<sup>th</sup> April and finalized on 3<sup>rd</sup> May 2013.

---

### **ABSTRACT**

*This study reviews, available technologies that can help small scale industries to remove heavy metals from industrial wastewater, different plant materials used as natural, easily available, low cost adsorbents, factors which affects adsorption process and acid or alkali modified adsorbents to enhance adsorption. The literature survey reveals that low cost plant materials are widely used for removal of heavy metals from aqueous solution and industrial wastewater. This review also gives some outlines of basic principles of adsorption technique and the adsorption process.*

**Keywords:** Adsorption, Heavy metals, Low cost materials, Industrial wastewater.

---