

### **Journal Publications:**

1. **A. Dey, R. Singh, M.K. Purkait**, Cobalt ferrite nanoparticles aggregated schwertmannite: A novel adsorbent for the efficient removal of arsenic. **Journal of Water Process Engineering (Elsevier), 2014, Vol.3, pp-1-9**
2. **A.Dey, M.K.Purkait**, 2014 , Effect of fatty acid chain length and concentration on the structural properties of the coated  $\text{CoFe}_2\text{O}_4$  nanoparticles, **Journal of Industrial and Engineering Chemistry (IF-2.011), Accepted 22 Sep . 2014. (doi: 10.1016/j.jiec.2014.09.027**

### **Conference Proceedings:**

- (i) **A.Dey, M.K.Purkait** , Coating of  $\text{CoFe}_2\text{O}_4$  nanoparticles with oleic acid and Lauric acid. **International Conference on material Science**, 21-23 February 2013, Tripura University, Agartala.
- (ii) **A.Dey, M.K.Purkait**, Effect of cationic, anionic and non-ionic surfactant template on the physicochemical properties of  $\text{CoFe}_2\text{O}_4$  nanoparticles. **International conference on advances in chemical engineering**, 5-6 April 2013, NIT Raipur, Raipur.