**Abstract**

Water contamination by toxic heavy metals are of the great concern because of their health risks on humans and animals. Lead is ubiquitous in the environment and has many industrial applications. Environmental concerns have let to the application of many chemical methods for heavy metal removal from aqueous solutions. Biosorption is cost effective and has been evolved as the frontline of defense, especially for metals that could not be removed by other techniques. This study deals with utilization and characterization of *Terminalia catappa*seed shells, agronomical litter in the effective trapping of Pb(II) ions from aqueous solutions.