

## Functionalized Nanoparticles as Sorbents for Removal of Toxic Species

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**Abstract :** Removal of various toxic species from aqueous streams is of great importance. Sorption is one of the important remediation procedures as it involves the use of cheap and easily available materials. Also the advantage of regeneration of the sorbent involves the possibility of using novel sorbents. Nanosorbents are very important as the removal is based on the surface phenomena and this is greatly affected by surface charge and area. Functionalization has been very important to bring about the removal of metal ions with greater selectivity.

**Keywords :** mercury, lead, thiol functionalization, ZnO NPs

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