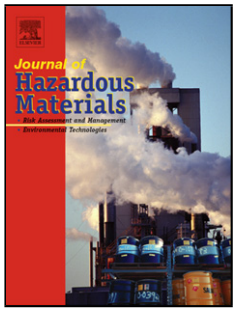

Title: Two novel multi-functional magnetic adsorbents for effective removal of hydrophilic and hydrophobic nitroaromatic compounds

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Two novel multi-functional magnetic adsorbents for effective removal of hydrophilic and hydrophobic nitroaromatic compounds

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Highlights

- Two magnetic resins were prepared with high surface area and ion exchange capacity.
- The resins showed high adsorption amount for hydrophilic NTS and hydrophobic *o*-MNT.
- The adsorption isotherms of NTS intersected under varied initial concentrations.
- Adsorption and ion exchange dominated at low and high concentrations respectively.
- The desorption efficiency of NTS and *o*-MNT was close to 100% for 10 cycles.

Abstract Two novel multi-functional magnetic resins named GMA30-1 and GMA30-2 were fabricated and investigated for the removal of