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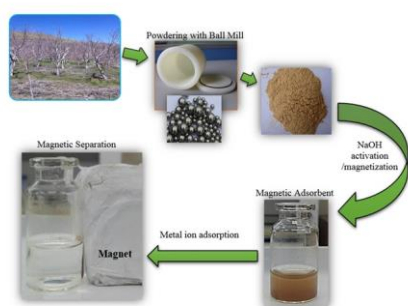
Synthesis and characterization of a new magnetic bio-adsorbent using walnut shell powder and its application in ultrasonic assisted removal of lead

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Graphical abstract



Highlights

- Magnetic bio-adsorbent was made by adhering Fe_3O_4 on the surface of walnut shell.
- Fast removal of lead ions was performed ultrasonically in the solution.
- Adsorption capacity of magnetic walnut shell (MWS) investigated for lead ions.

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