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Magnetic iron oxide-carbon nanocomposites: Impacts of carbon coating on the As(V) adsorption and inductive heating responses

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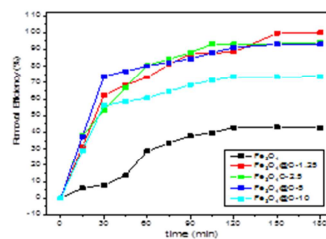
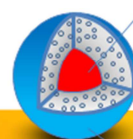
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As(V) adsorption

Fe₃O₄@C core-shell NPsFe₃O₄ nanoparticles

Carbon

Fe₃O₄ nanoparticlesFeCl₂+FeCl₃+NaOH

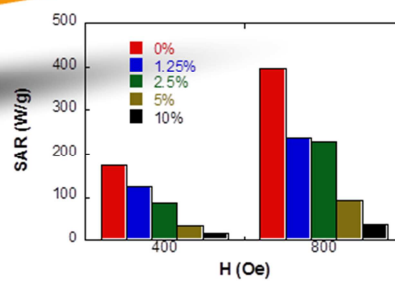
Cocprecipitation

Dried at 80°C for 24 h in air

Hydrothermal

200°C for 12 hours

Magnetic hyperthermia



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