

Supporting information for

Comparative study on arsenate removal mechanism of MgO and MgO/TiO₂ composites: FTIR and XPS analysis

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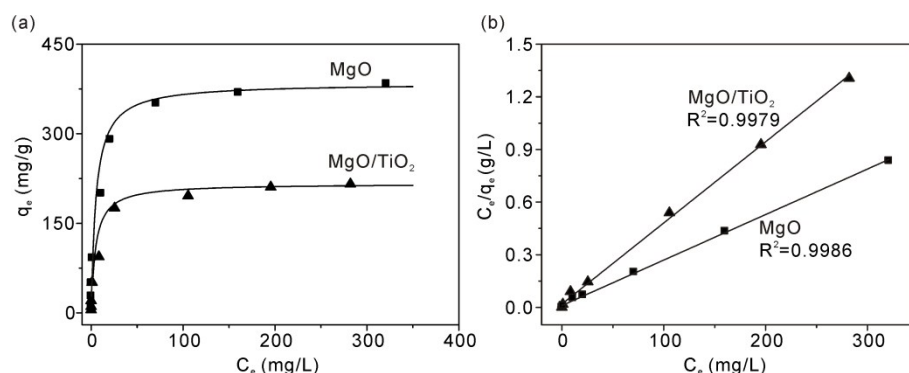


Fig. S1 Adsorption isotherms (a) and linearized Langmuir isotherms (b) obtained from As(V) adsorption onto the MgO nanowires and MgO/TiO₂ composites.

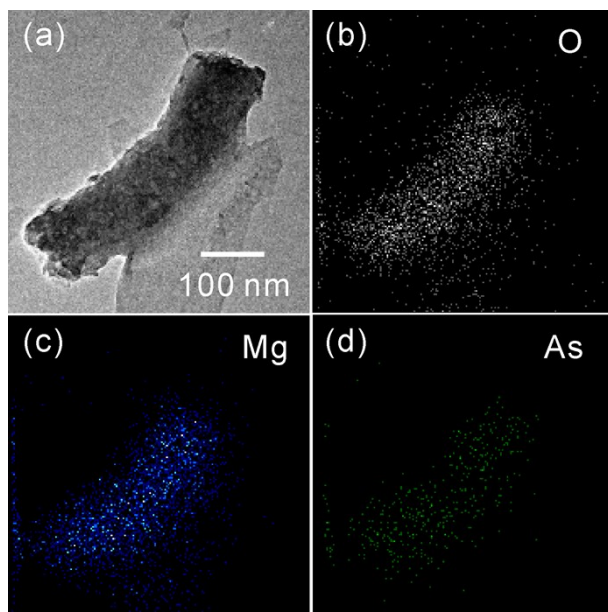


Fig. S2 TEM image (a) and elemental mapping images (b–d) of the MgO nanowires after As(V) adsorption.

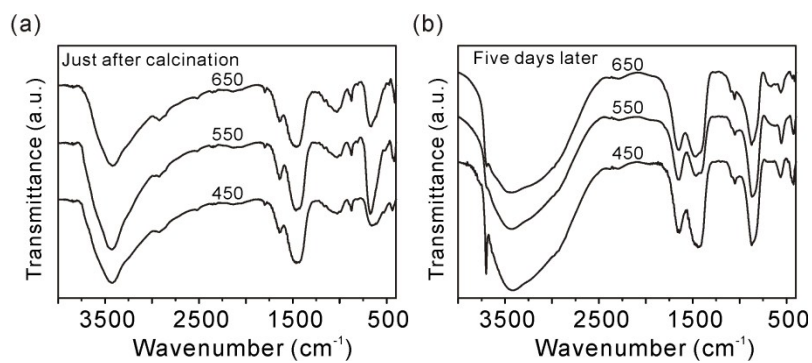


Fig. S3 FTIR spectra of the MgO nanowires just after calcination at different temperature (a) and after stored five days later (b).

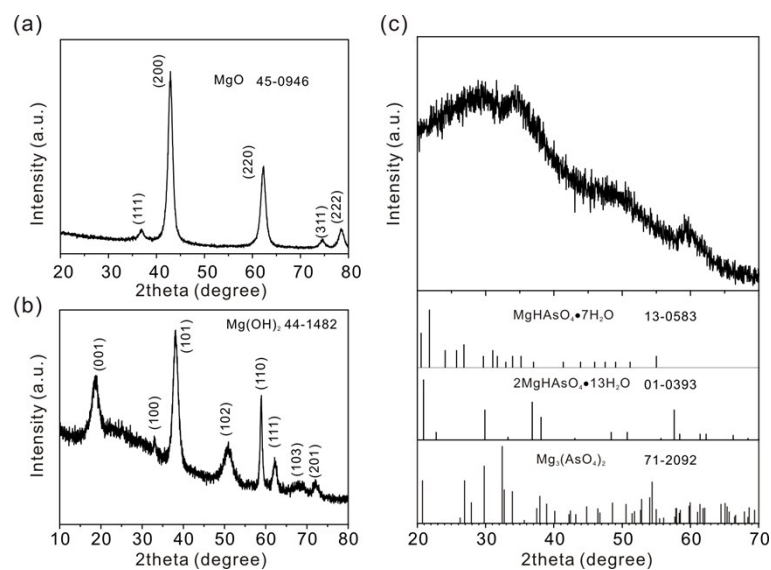


Fig. S4 XRD patterns of the MgO nanowires before (a) and after after immersing in water for 24 hours (b), and MgO nanowires after As (V) adsorption (c) with a initial As(V) concentration of 500 mg L⁻¹.

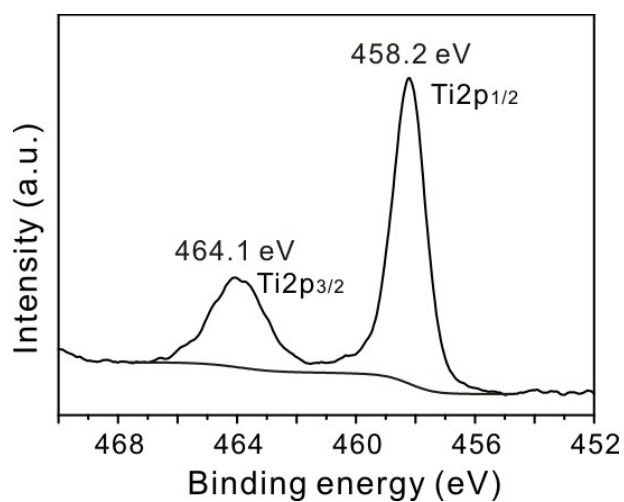


Fig. S5 XPS Ti2p spectrum of MgO/TiO₂ composites after As(V) adsorption.