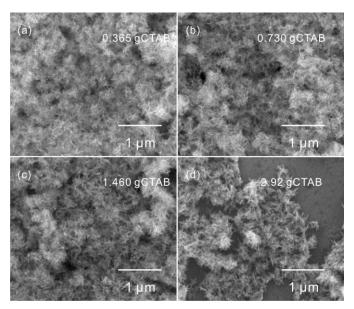
Supplementary information for

## Synthesis of monodispersed $\alpha$ -FeOOH nanorods with high content of surface hydroxyl groups and enhanced ion-exchange properties towards As(V)

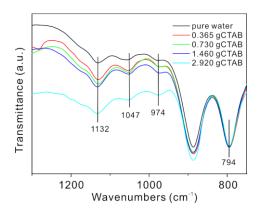
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**Fig.S1** SEM images of the obtained products synthesized with different amount of CTAB.

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**Fig. S2** FTIR spectra of the obtained products synthesized with different amount of CTAB.