

Supplementary Materials

# Removal of Cr(VI) from Wastewater Using Graphene Oxide Chitosan Microspheres Modified with $\alpha$ -FeO(OH)

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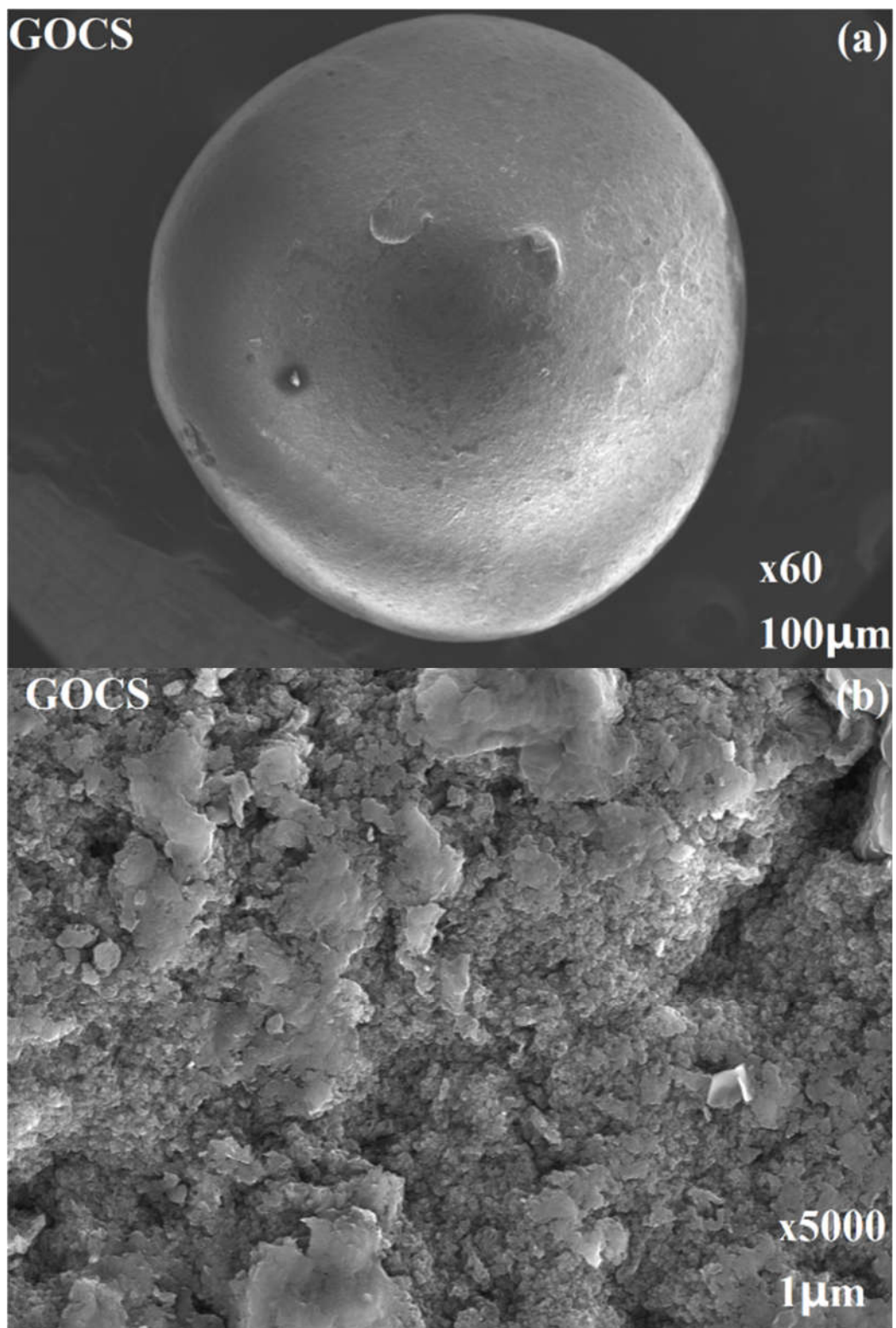
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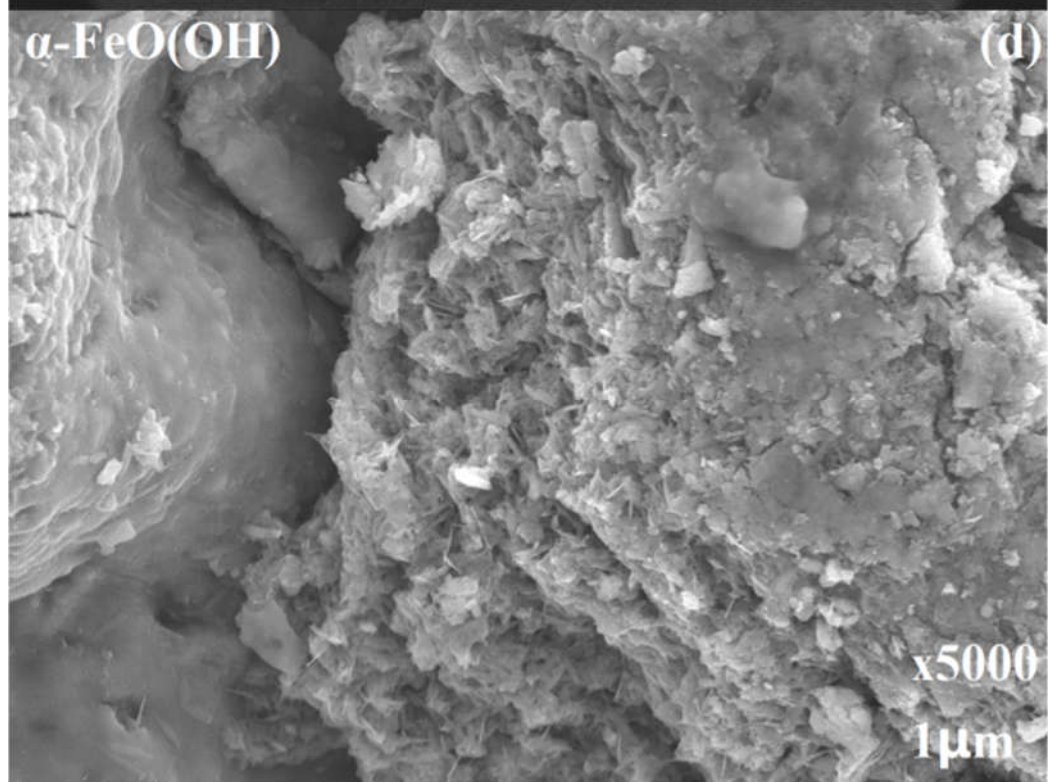
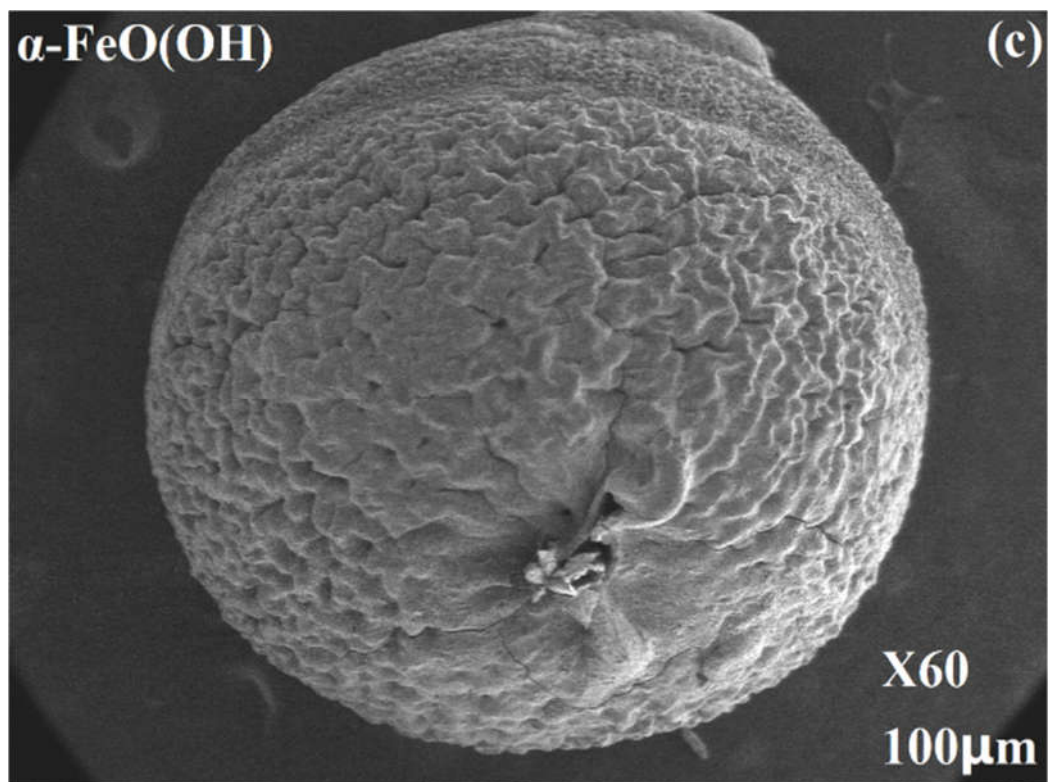
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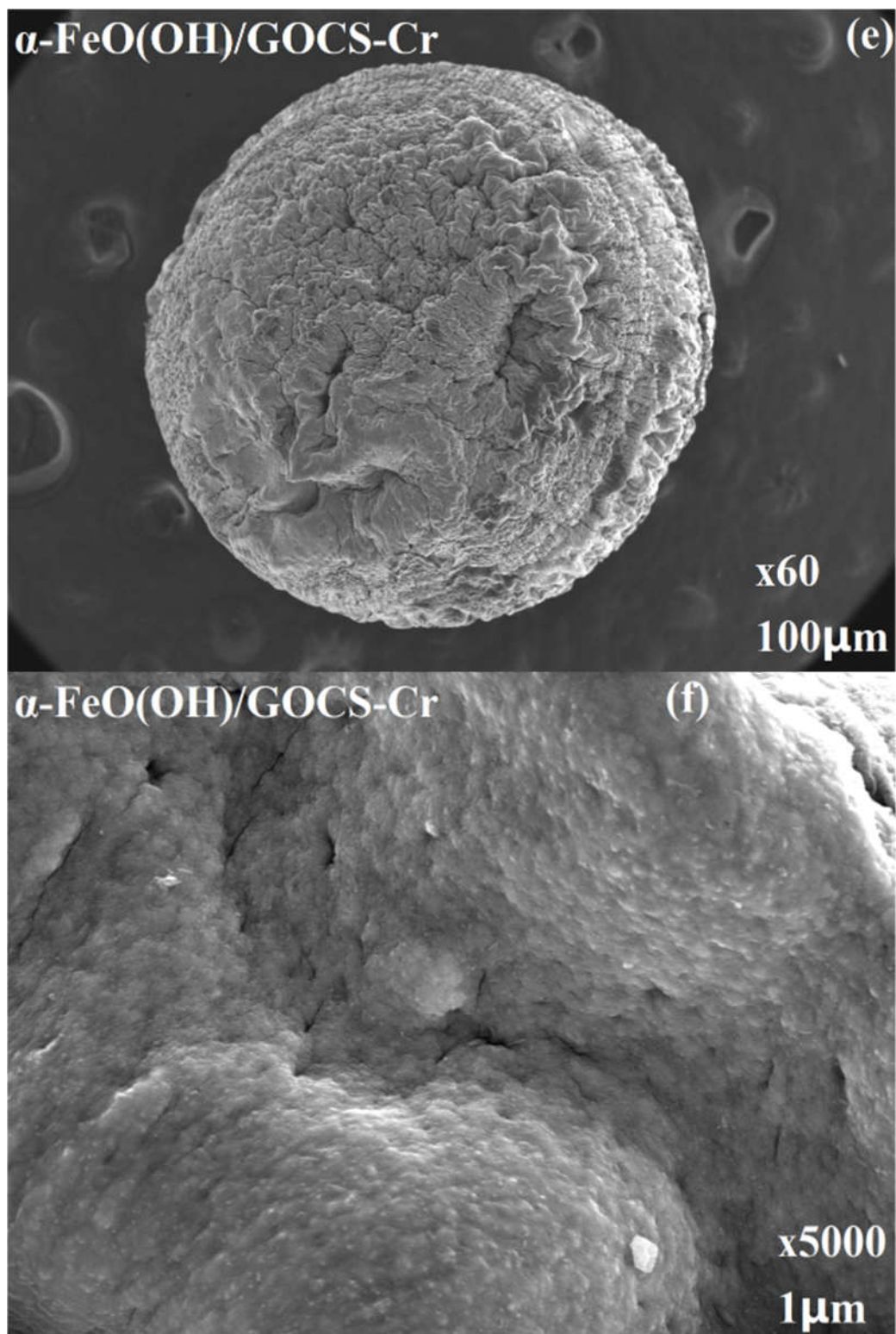


Figure S1. SEM images of GOCS(a,b),  $\alpha\text{-FeO(OH)/GOCS}$  before (c,d)/after (e,f) adsorption.

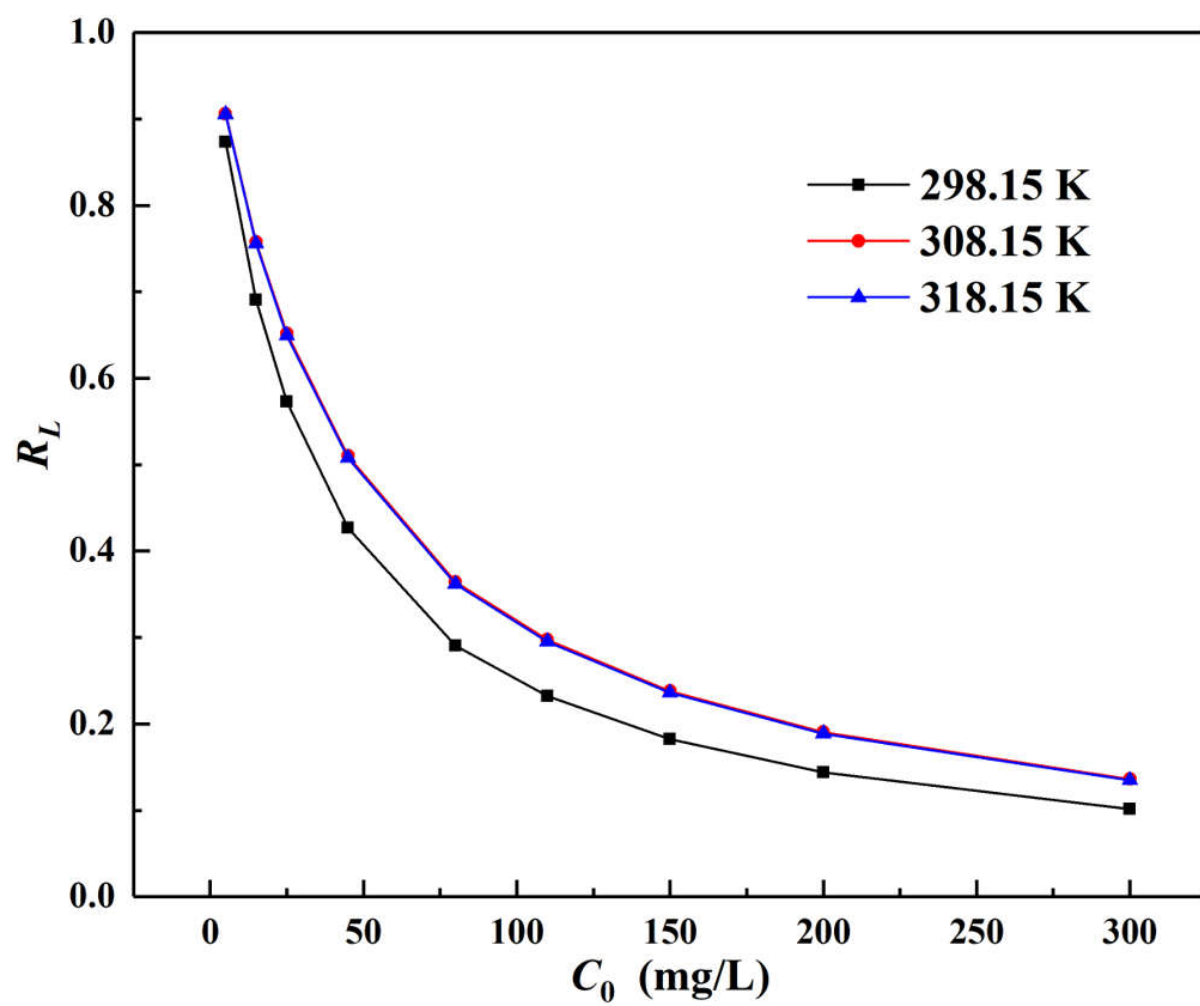
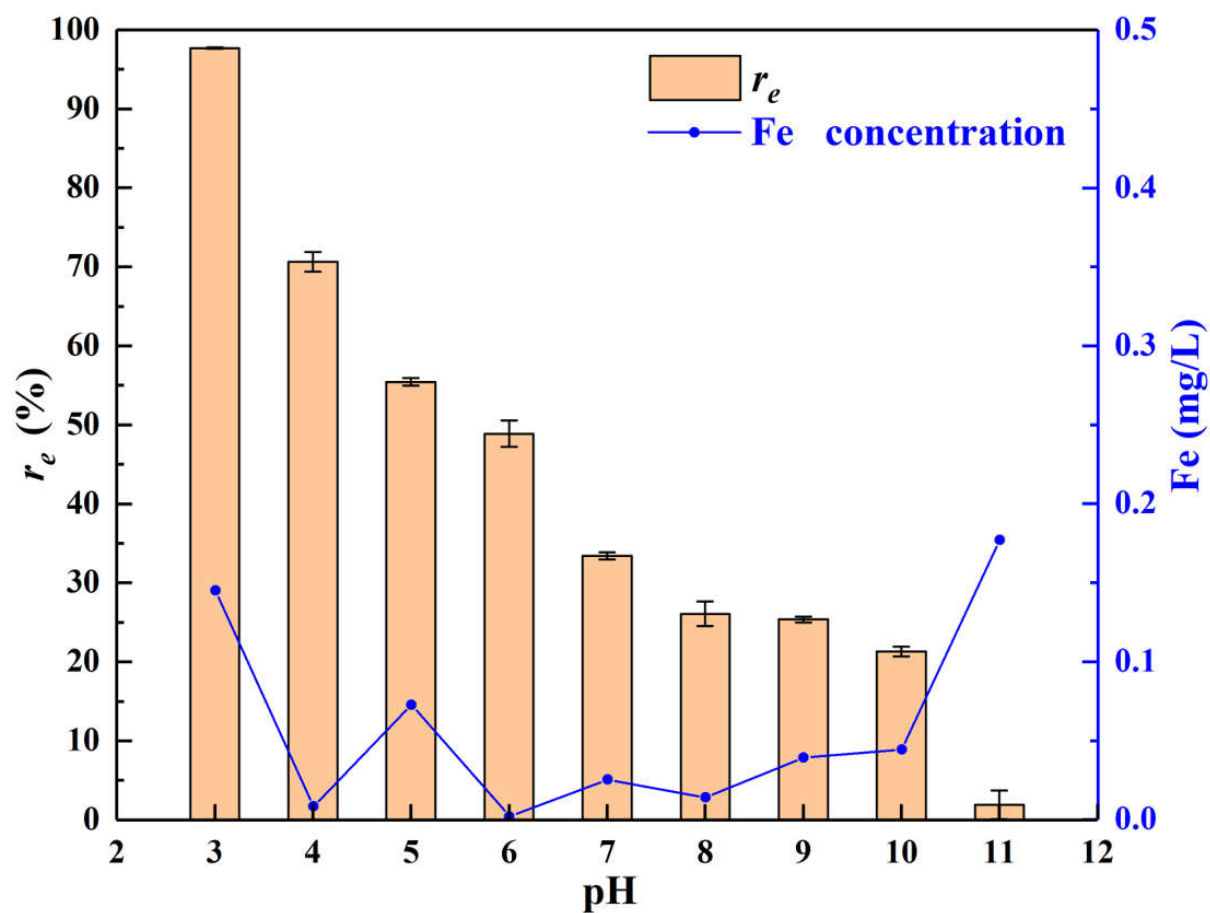
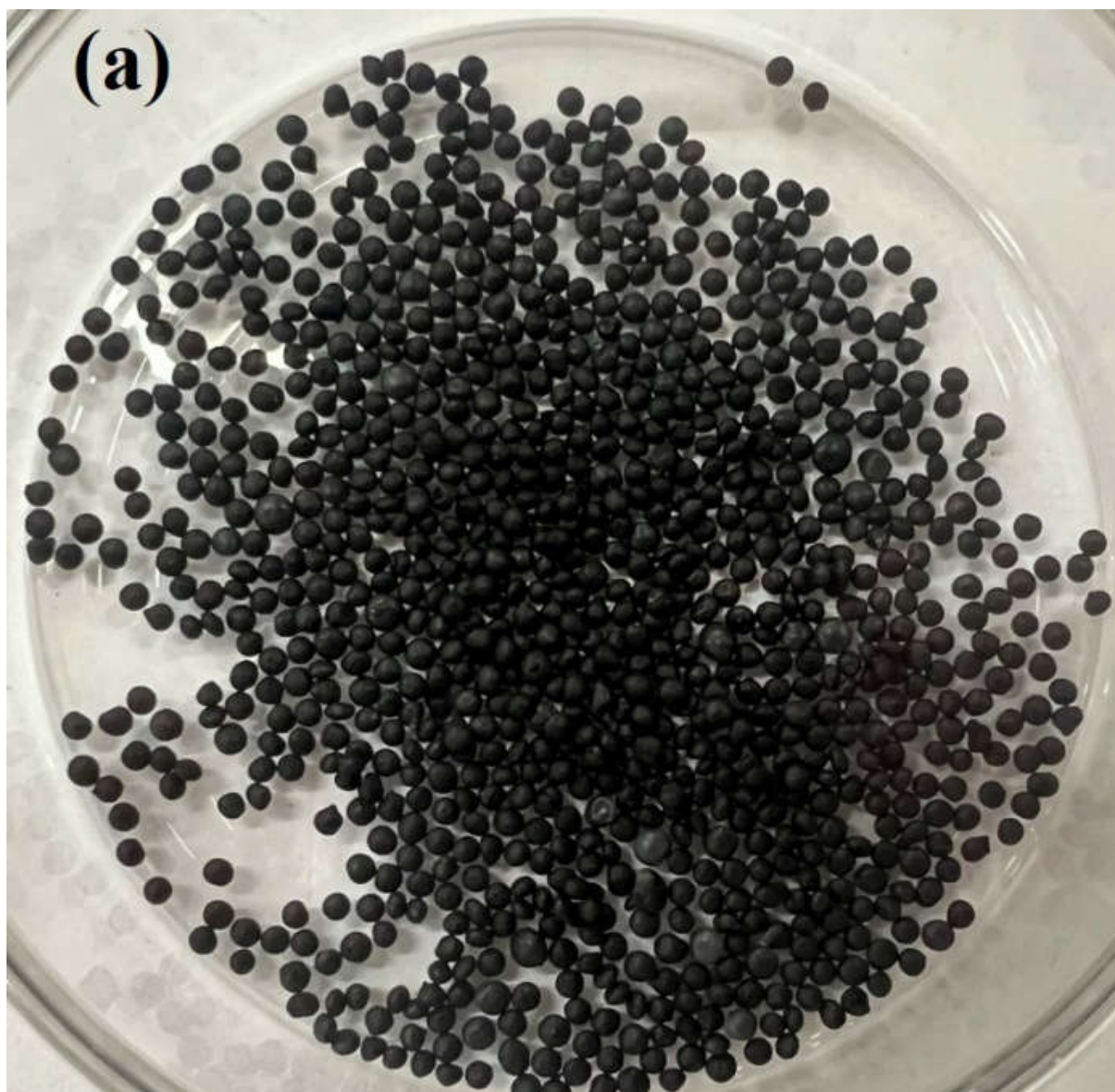


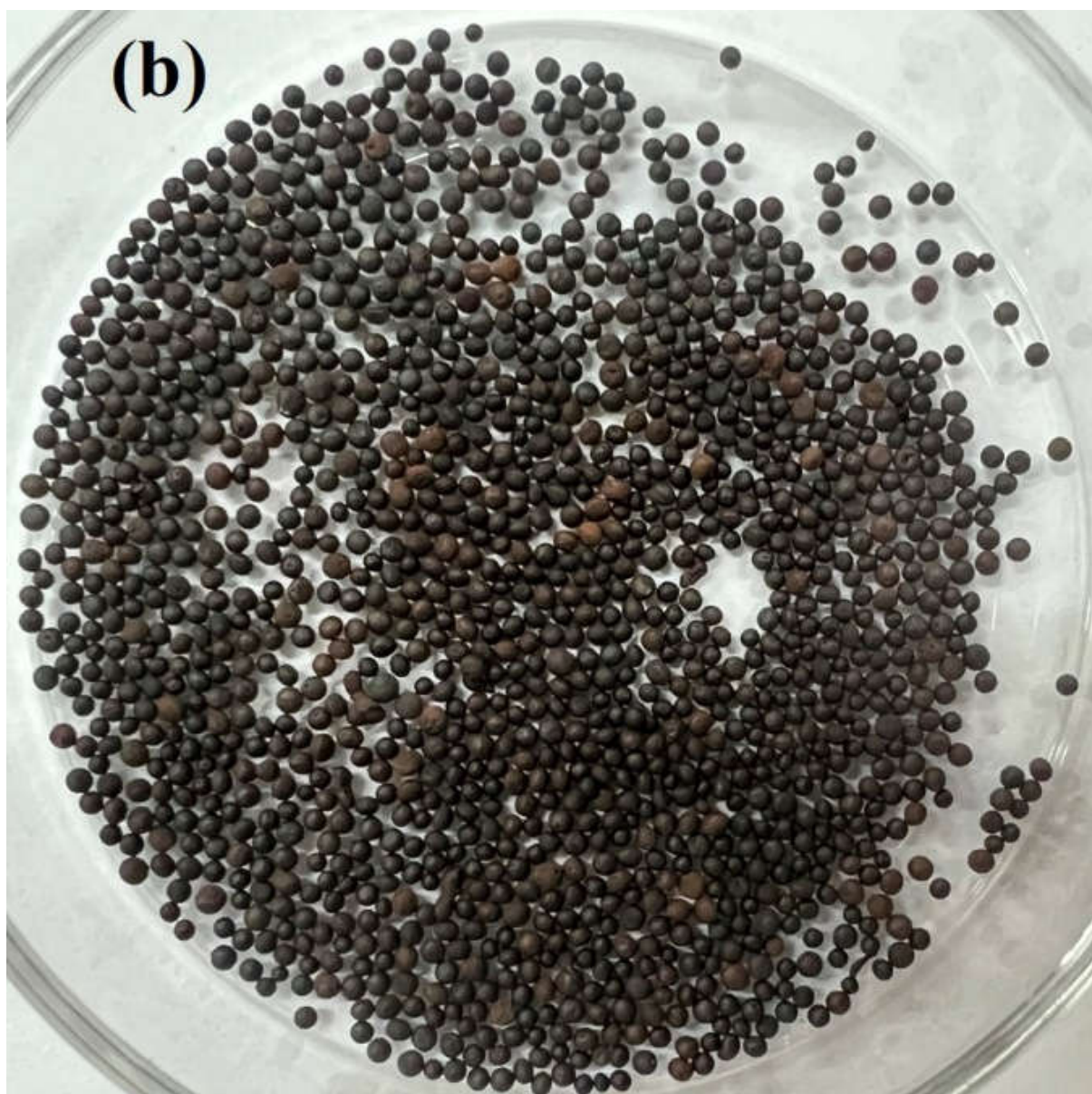
Figure S2.  $R_L$  of  $\alpha$ -FeO(OH)/GOCS adsorbs Cr(VI).





**Figure S3.** Cr(VI) removal rate and Fe concentration change with pH value. (The actual pH value of aqueous solution is 3.0, the initial concentration of Cr(VI) is 25 mg/L, and the reaction time is 3840 min. The adsorption is carried out at an oscillation rate of 170 rpm and a temperature of 298.15 K.).





**Figure S4.** GOCS(a) and  $\alpha$ -FeO(OH)/GOCS(b) microspheres.