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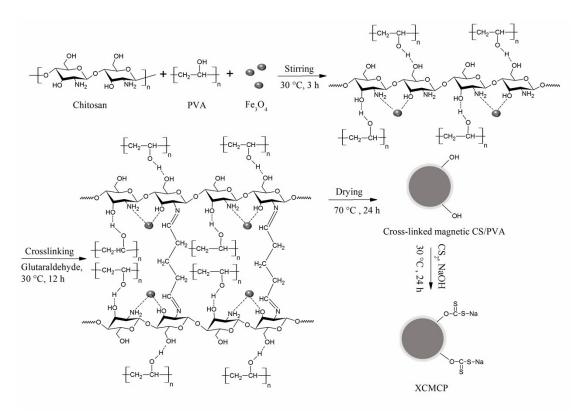


Fig. S1. Schematic illustrations of the synthesis strategy used to prepare xanthate-modified cross-linked magnetic chitosan/poly (vinyl alcohol) particles

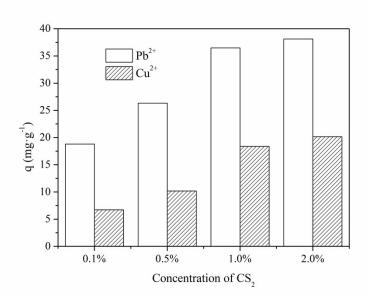


Fig. S2. Effect of  $CS_2$  on adsorption of  $Pb^{2+}$  and  $Cu^{2+}$  onto XCMCP. Experimental condition: initial metal ions concentration was 100 mg/L, dosage of XCMCP was 0.15 g/ 50 mL, and temperature was 303K