Supplementary information

The adsorption performance of 2-aminopyridine-modified sodium alginate hydrogel on heavy metals

1、 Conditional filter

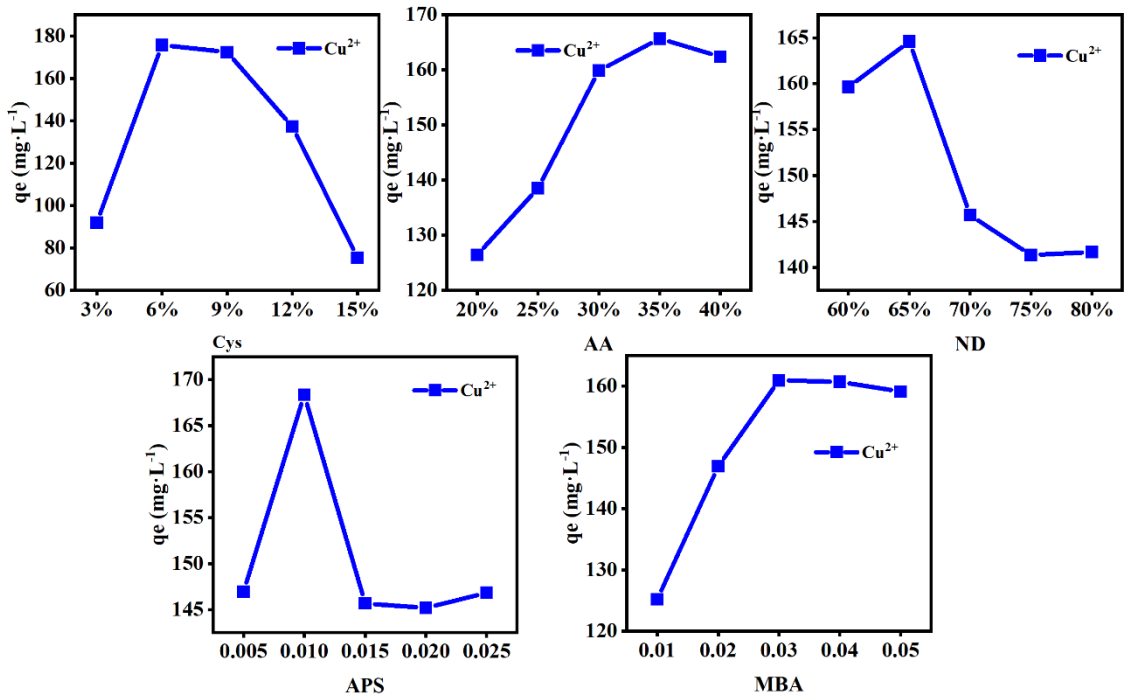


Figure S1, Effect of synthesis conditions on the adsorption of OSM/PAA: a. Crosslinker Cys variable relative to SM (%); b. SM fraction; c. Degree of neutralization of AA; d. Initiator content; e. Crosslinker content MBA (all variables except a relative to AA (%)).

2、Thermodynamic curve of heavy metal adsorption by OSM/PAA

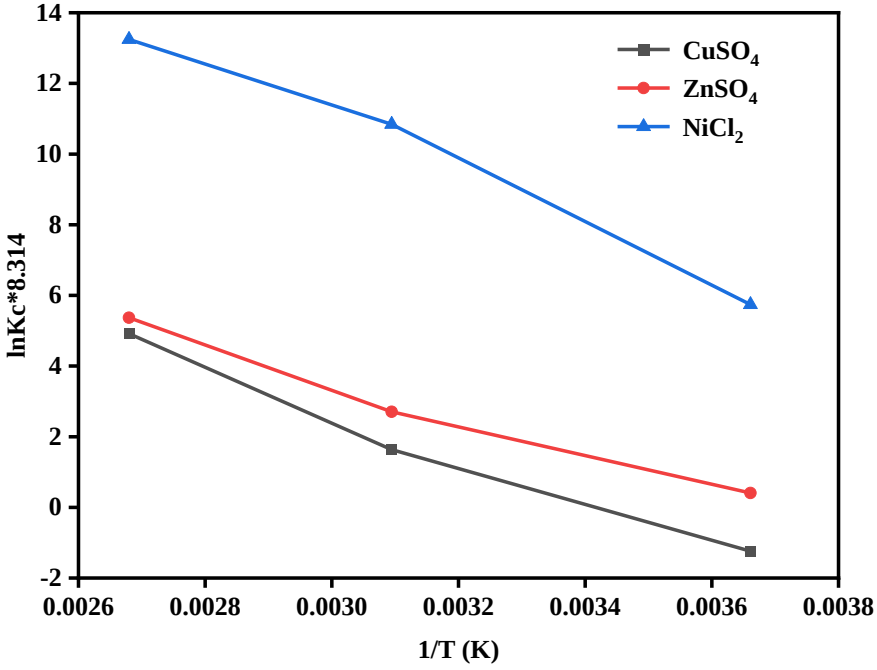


Figure S2 Adsorption thermodynamic curve of heavy metal ions adsorbed by OSM/PAA

3、Adsorption isotherm

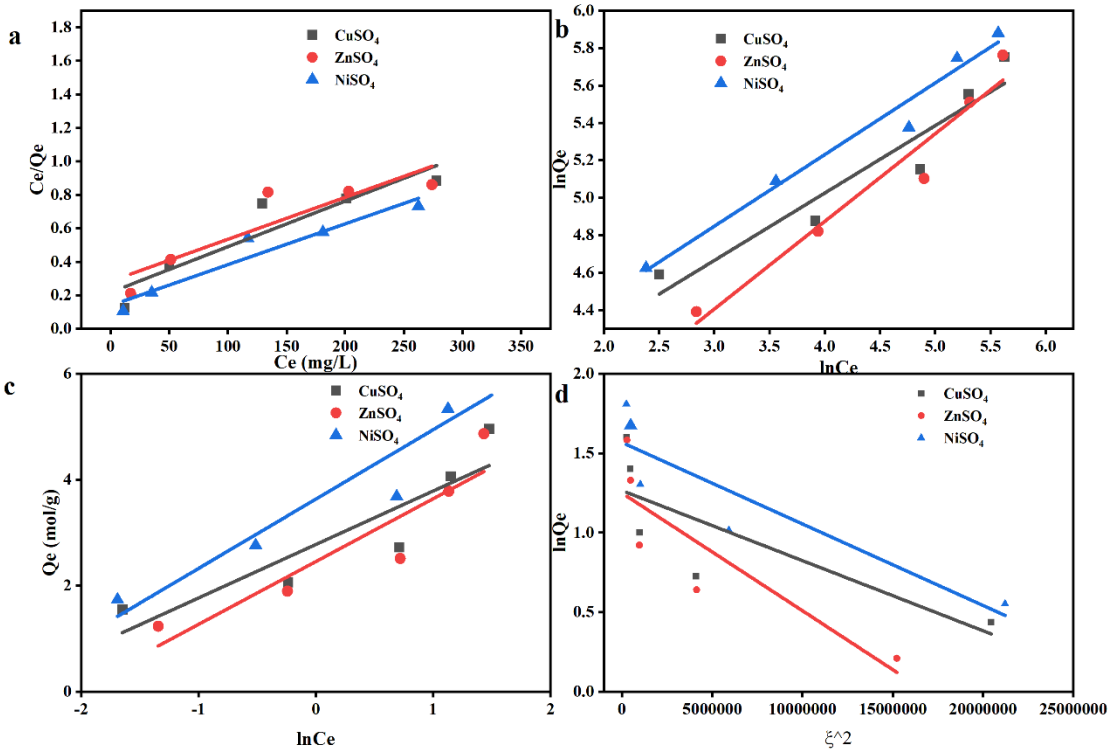


Figure S3. Langmuir, Freundlich, Temkin and Dubinin-Radushkevich isotherms for OSM/PAA adsorption of heavy metal ions

4、 Competitive Adsorption

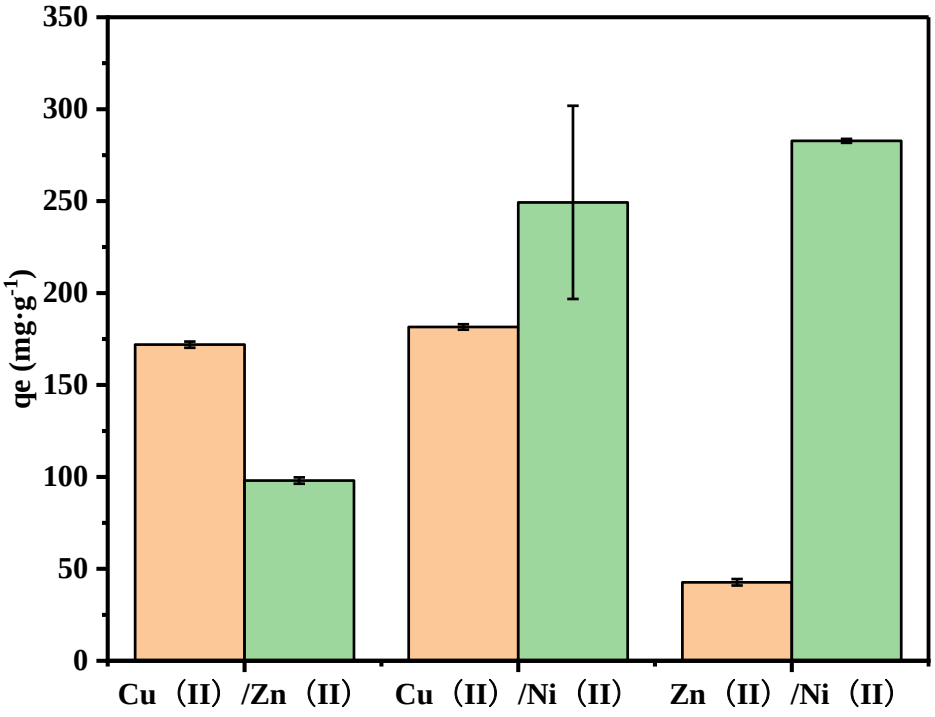
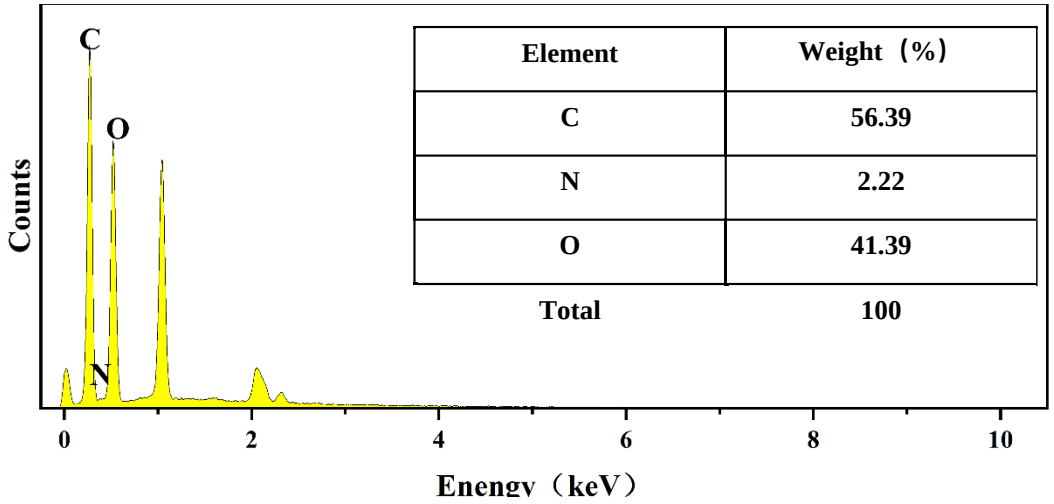


Figure S4. Effect of mixed metal ions on adsorption

5、Experimental characterization



Element	Weight（%）
C	56.39
N	2.22
O	41.39
Total	100

Figure S5. EDS image of SM