

Table of contents

1. Figure S1. Raman spectra of Fe/SA-C.
2. Figure S2. SEM image of Fe/SA-C bead.
3. Figure S3. Linear fit of (a) Freundlich model and (b) Temkin model at different temperatures.
4. Figure S4. The plot between $\ln K_c$ and $1/T$.
5. Figure S5. Reuse efficiency of adsorbent.
6. Figure S6. (a) Magnetic hysteresis curve of Fe/SA-C at room temperature; (b) magnetic propriety of Fe/SA-C.

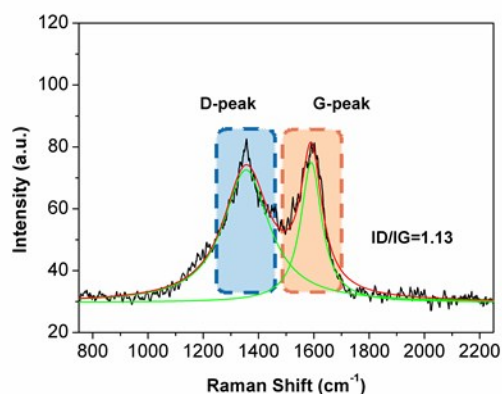


Figure S1. Raman spectra of Fe/SA-C.

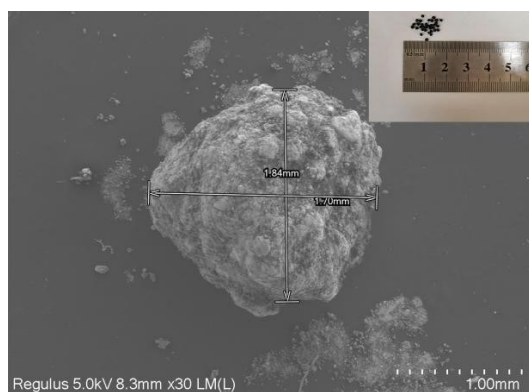


Figure S2. SEM image of Fe/SA-C bead.

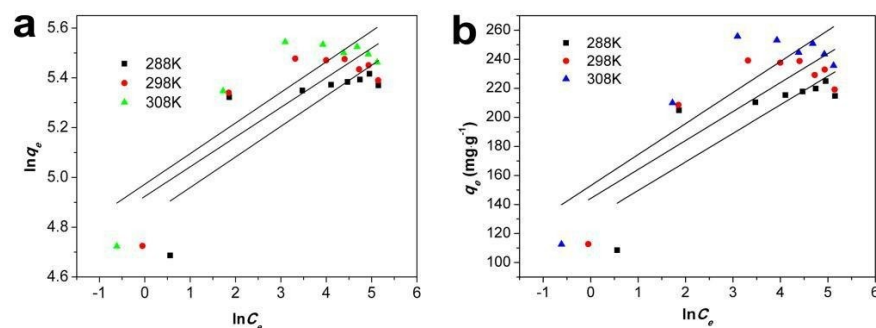


Figure S3. Linear fit of (a) Freundlich model and (b) Temkin model at different temperatures.

Linear equations at different temperatures are listed below:

Freundlich model:

$$288\text{K: } \ln q_e = 0.1227 \ln C_e + 4.8366 \quad (R^2 = 0.626)$$

$$298\text{K: } \ln q_e = 0.1191 \ln C_e + 4.9235 \quad (R^2 = 0.656)$$

308K: $\ln q_e = 0.1229 \ln C_e + 4.9726$ ($R^2 = 0.726$)

Temkin model:

288K: $q_e = 19.688 \ln C_e + 129.90$ ($R^2 = 0.662$)

298K: $q_e = 19.947 \ln C_e + 144.13$ ($R^2 = 0.661$)

308K: $q_e = 21.372 \ln C_e + 152.97$ ($R^2 = 0.733$)

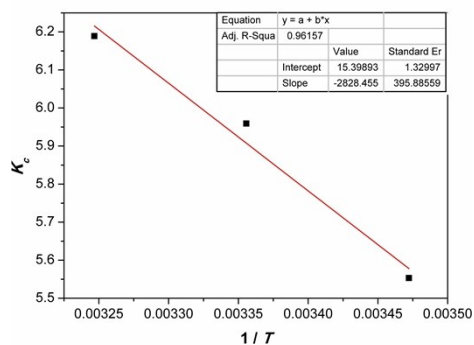


Figure S4. The plot between $\ln K_c$ and $1/T$.

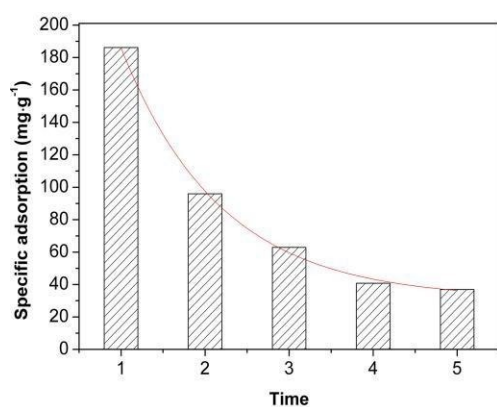


Figure S5. Reuse efficiency of the adsorbent.

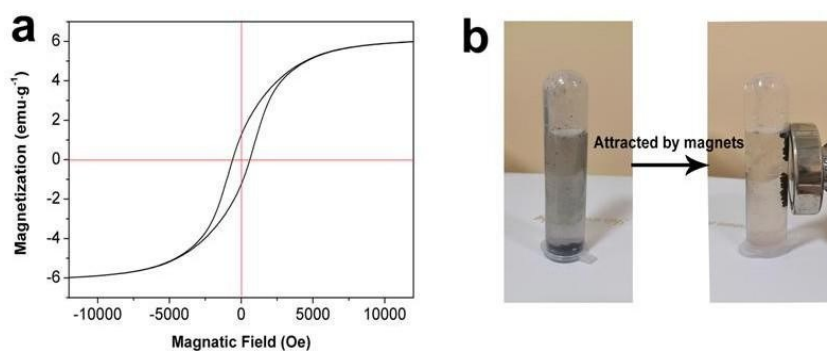


Figure S6. (a) Magnetic hysteresis curve of Fe/SA-C at room temperature; (b) magnetic propriety of Fe/SA-C.