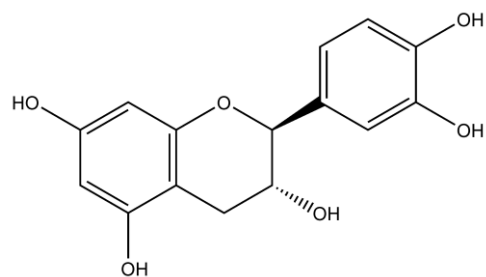


Supplementary Material

1. Chemical structure



Figures S1. Chemical structure of (+)-catechin.

2. Characterization

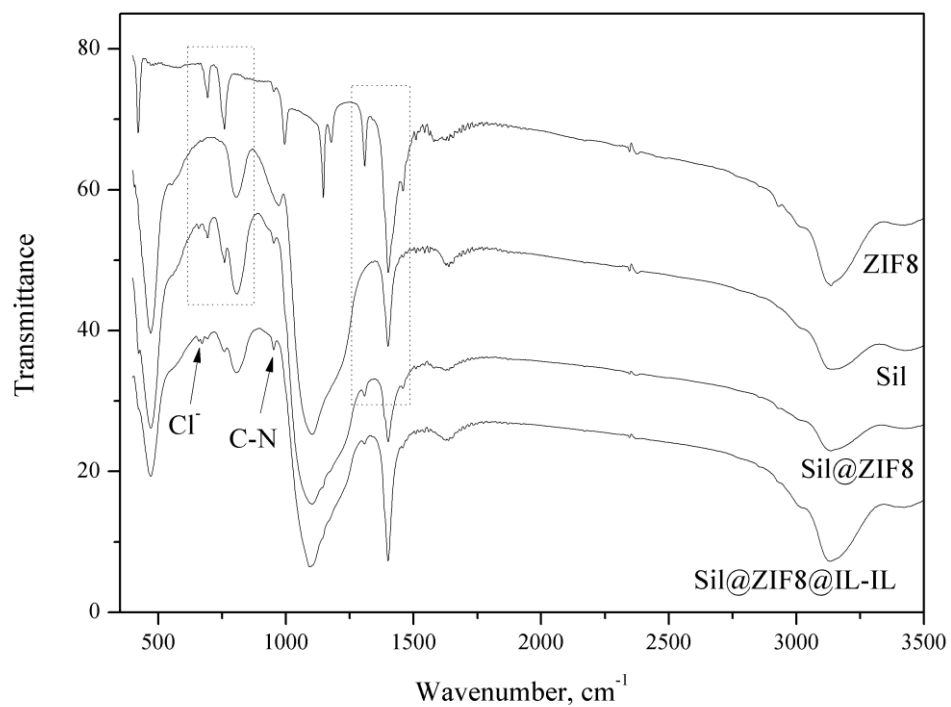


Figure S2. FT-IR of ZIF8, Sil, Sil@ZIF8 and one of Sil@ZIF8@IL-IL.

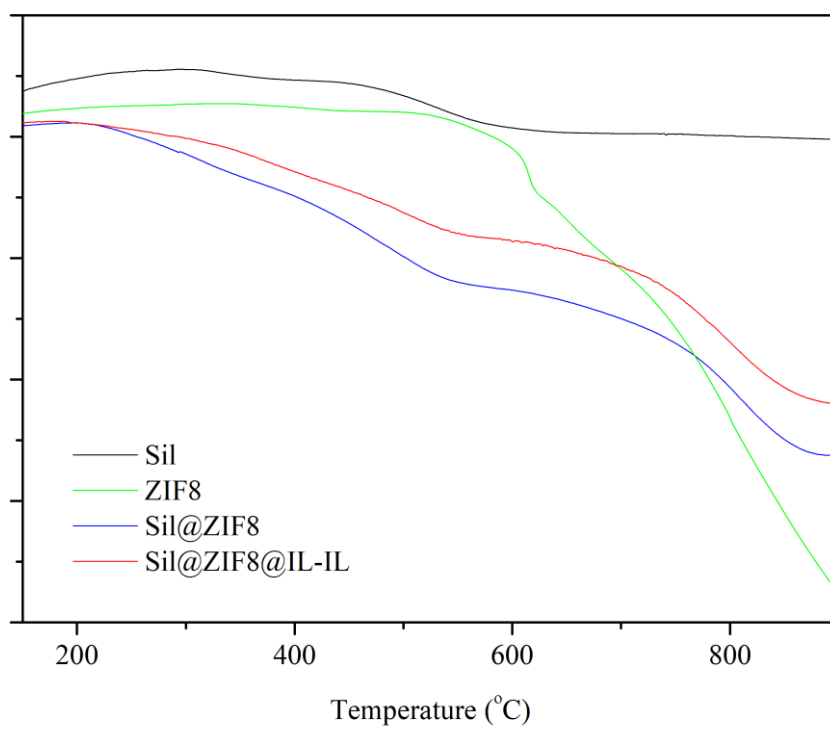


Figure S3. TGA analysis of ZIF8, Sil, Sil@ZIF8 and one of Sil@ZIF8@IL-IL.

3. Adsorption ability and isothermal study

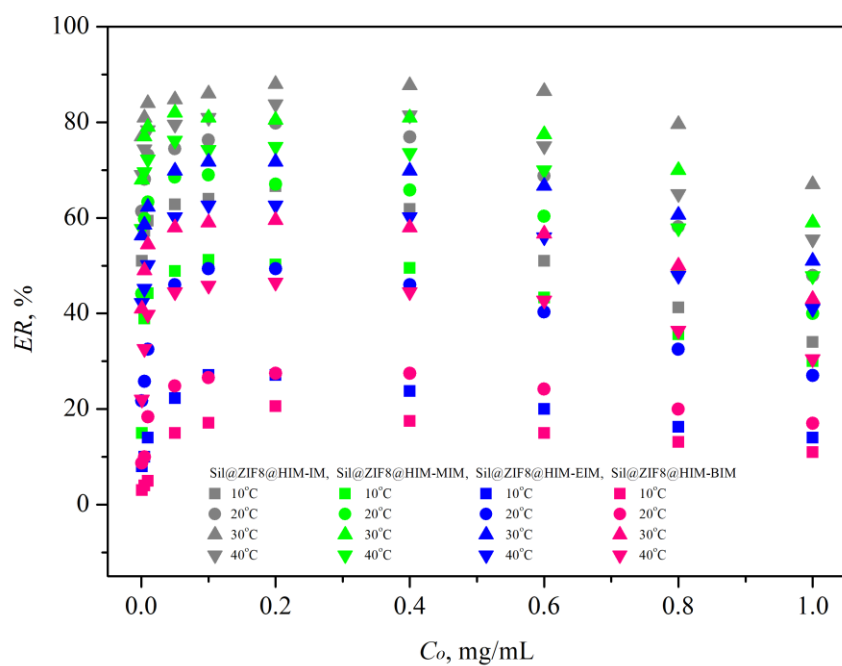


Figure S4. The adsorption efficiencies of four Sil@ZIF8@HIM-IL sorbents.

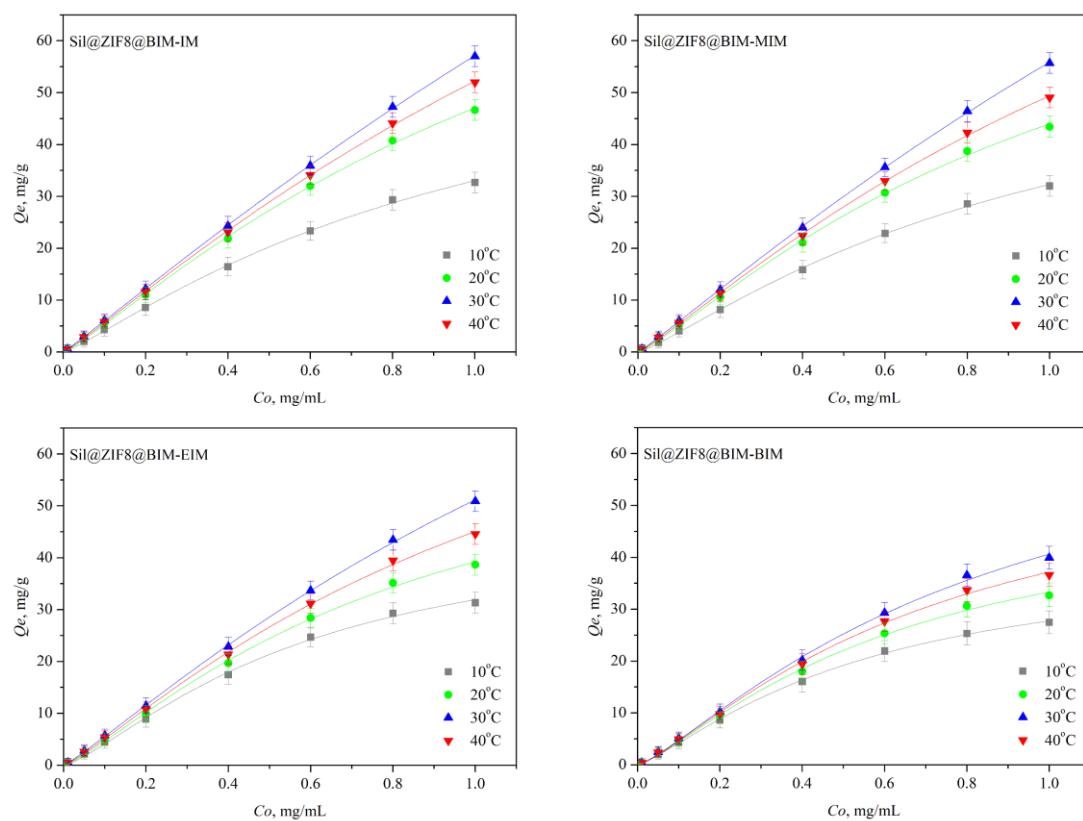


Figure S5. The relationships between C_0 and Q_e of (+)-catechin on four Sil@ZIF8@BIM-IL sorbents at 10, 20, 30 and 40 °C.

4. pH effect

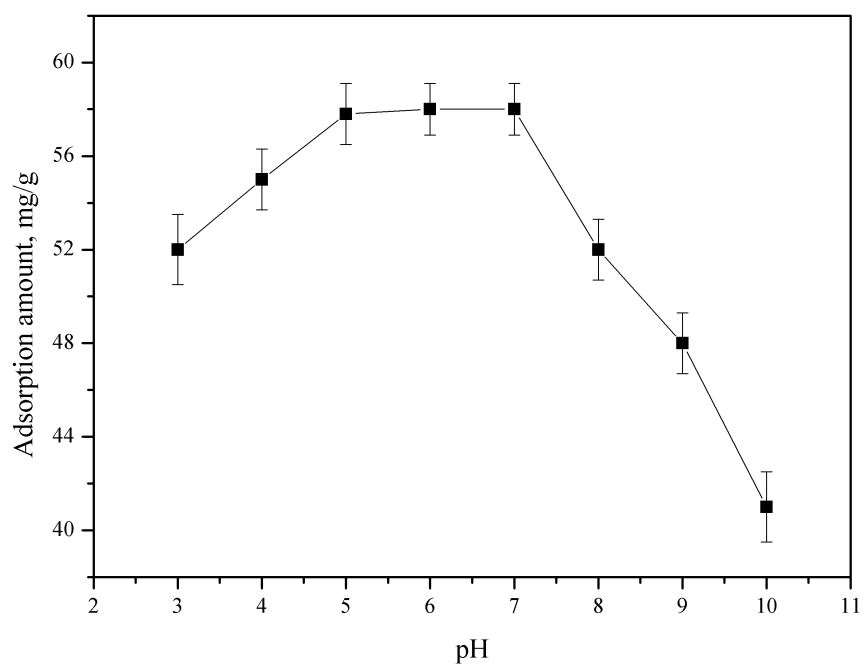


Figure S6. The pH effect of (+)-catechin aqueous solution on adsorption amount.