

Article

Flower-Like Thiourea–Formaldehyde Resin Microspheres for the Adsorption of Silver Ions

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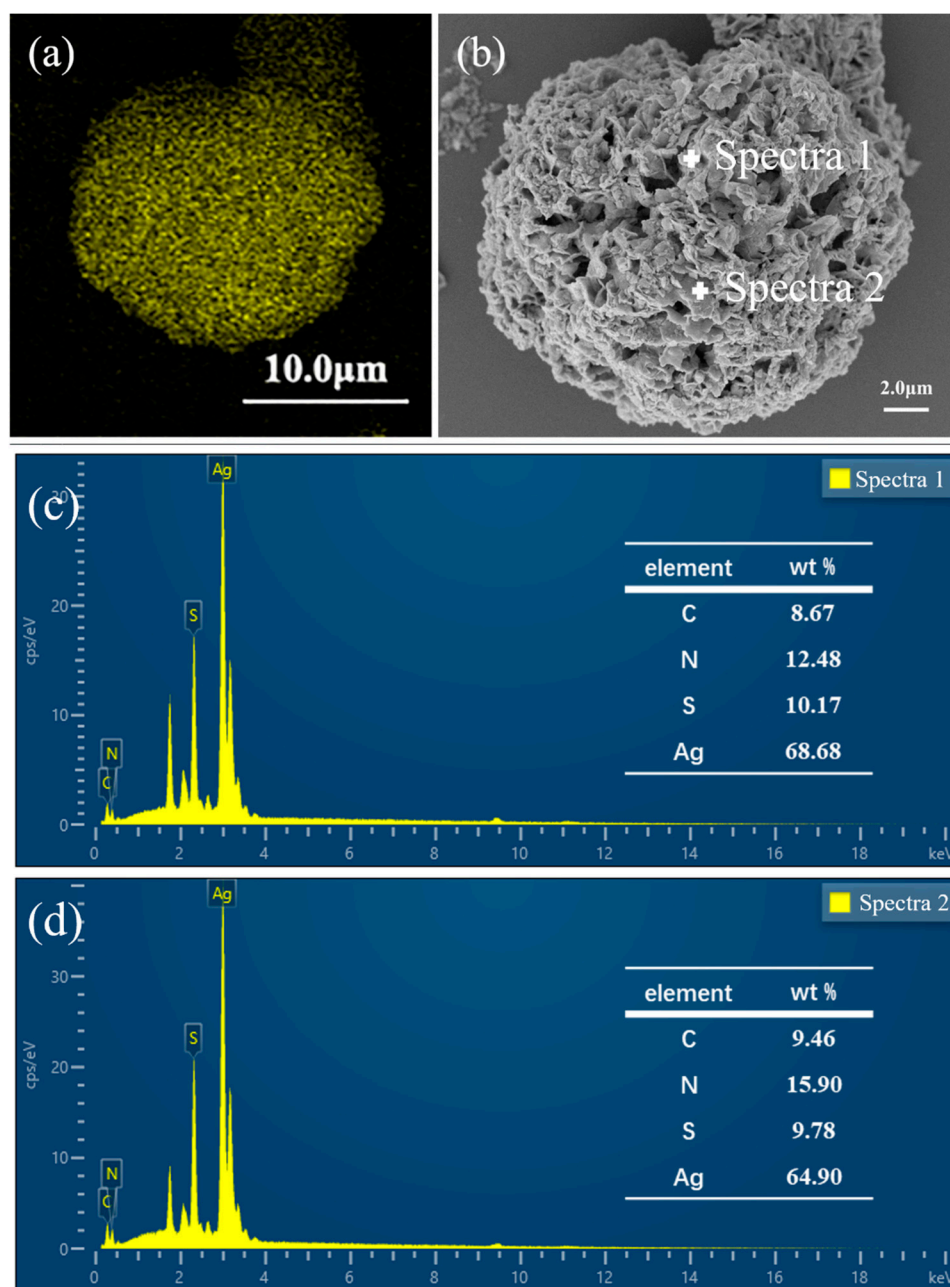


Figure S1. (a) The EDAX for silver ions distribution on FTFM surface. (b) two points on the FTFM surface for element mapping. (c,d) Elemental content of two points.

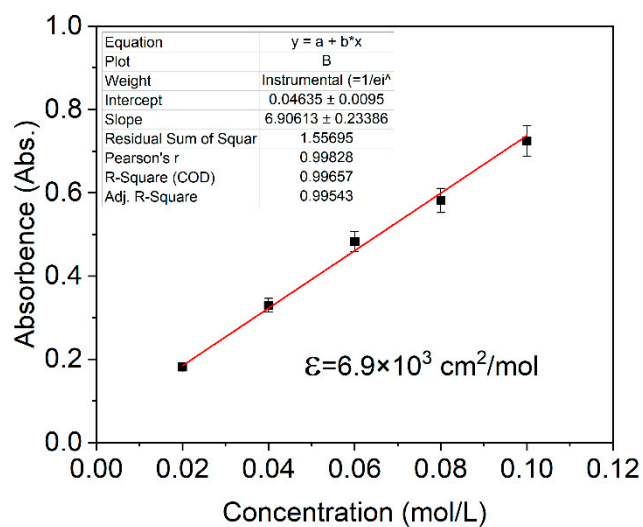


Figure S2. The calculation of the UV extinction coefficient of silver.

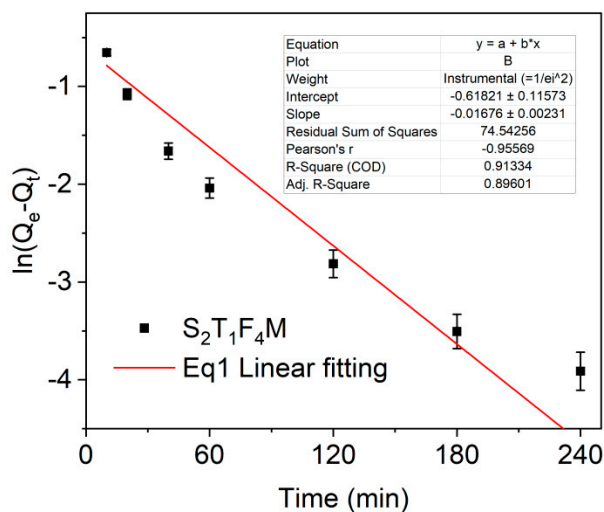


Figure S3. linear fitting between $\ln(Q_e - Q_t)$ and adsorption time of $S_2T_1F_4M$ according to Equation (1) (main text).

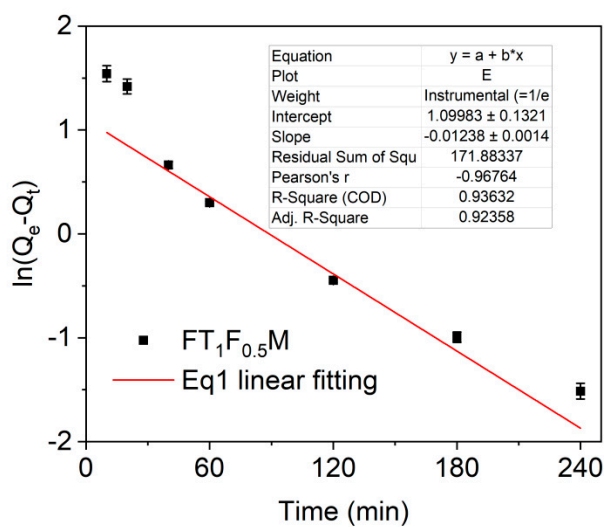


Figure S4. linear fitting between $\ln(Q_e - Q_t)$ and adsorption time of FT₁F_{0.5}M according to Equation (1) (main text).

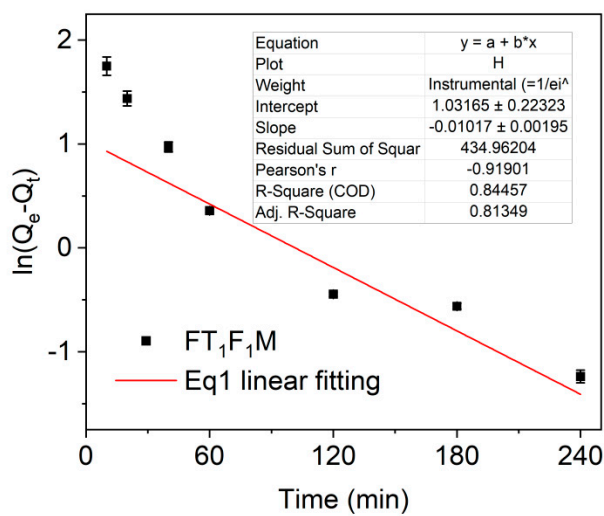


Figure S5. linear fitting between $\ln(Q_e - Q_t)$ and adsorption time of FT₁F₁M according to Equation (1) (main text).

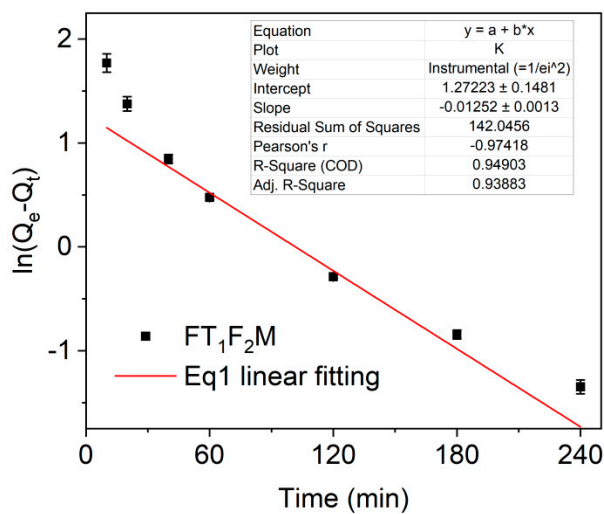


Figure S6. linear fitting between $\ln(Q_e - Q_t)$ and adsorption time of FT₁F₂M according to Equation (1) (main text).

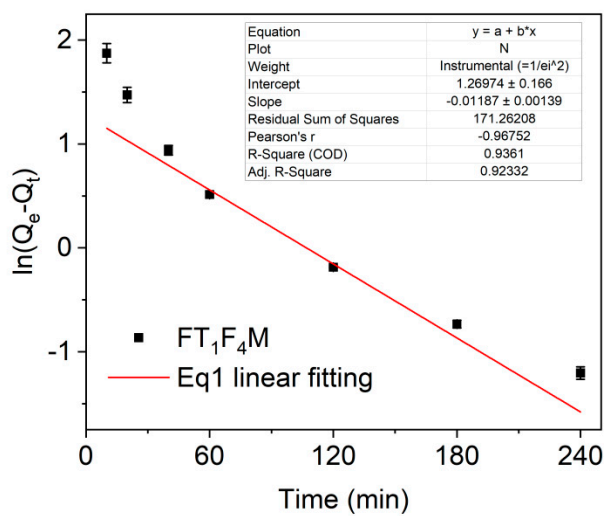


Figure S7. linear fitting between $\ln(Q_e - Q_t)$ and adsorption time of FT₁F₄M according to Equation (1) (main text).

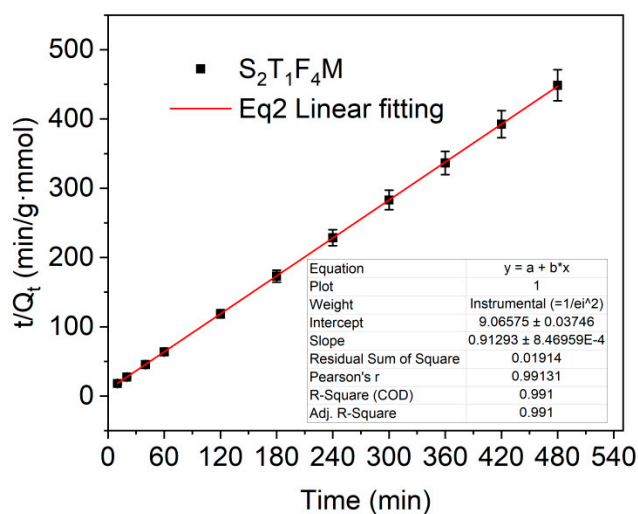


Figure S8. linear fitting between t/Q_t and adsorption time of $S_2T_1F_4M$ according to Equation (2) (main text).

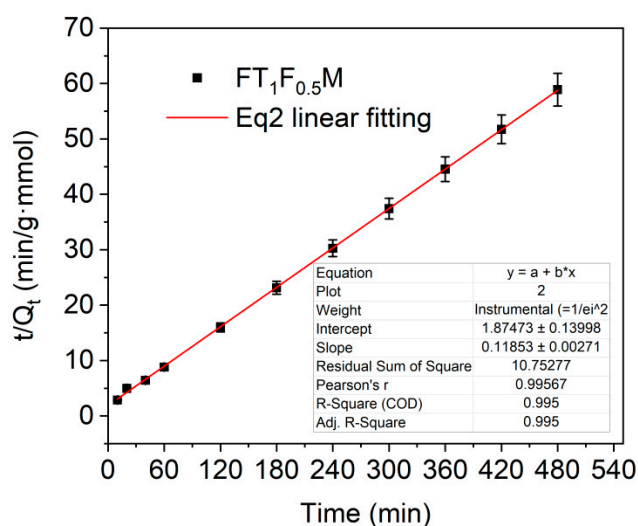


Figure S9. linear fitting between t/Q_t and adsorption time of $FT_1F_{0.5}M$ according to Equation (2) (main text).

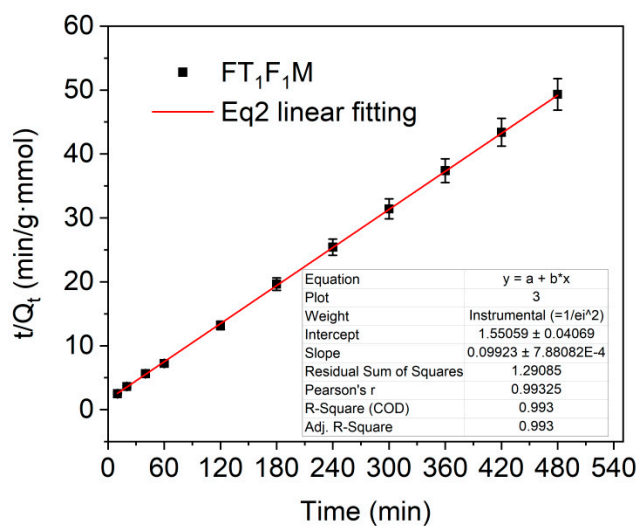


Figure S10. linear fitting between t/Q_t and adsorption time of FT_1F_1M according to Equation (2) (main text).

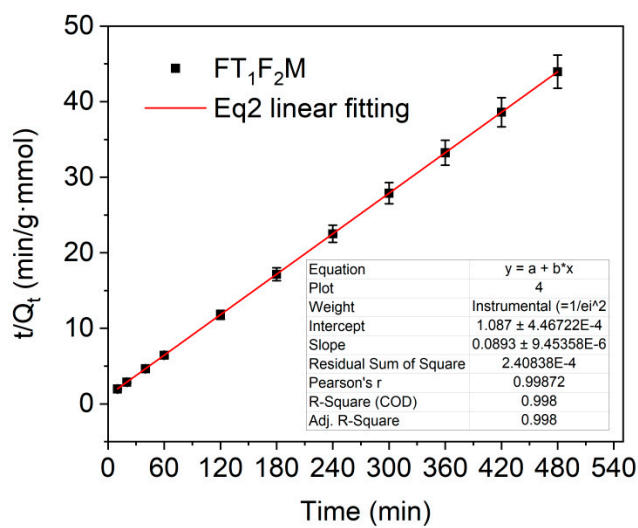


Figure S11. linear fitting between t/Q_t and adsorption time of FT_1F_2M according to Equation (2) (main text).

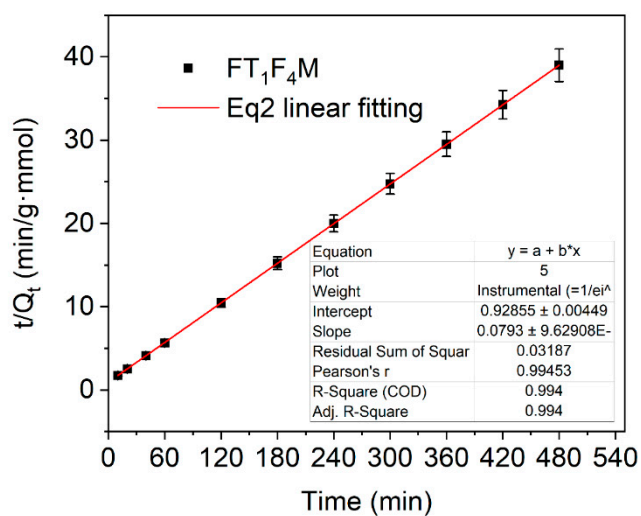


Figure S12. linear fitting between t/Q_t and adsorption time of FT_1F_4M according to Equation (2) (main text).

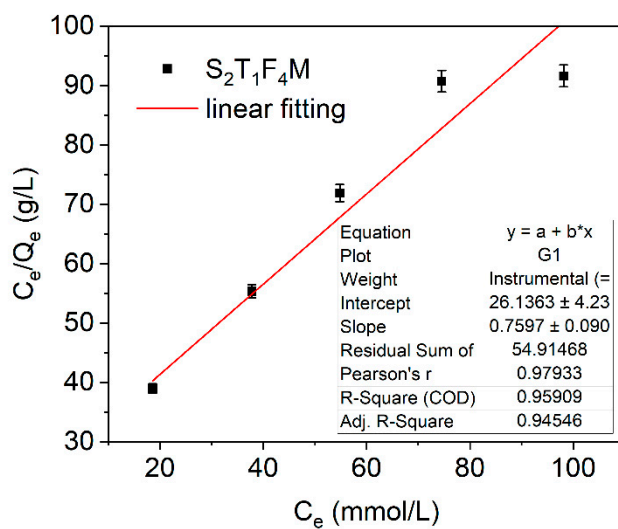


Figure S13. linear fitting between C_e/Q_e and C_e of $S_2T_1F_4M$ according to Equation (5) (main text).

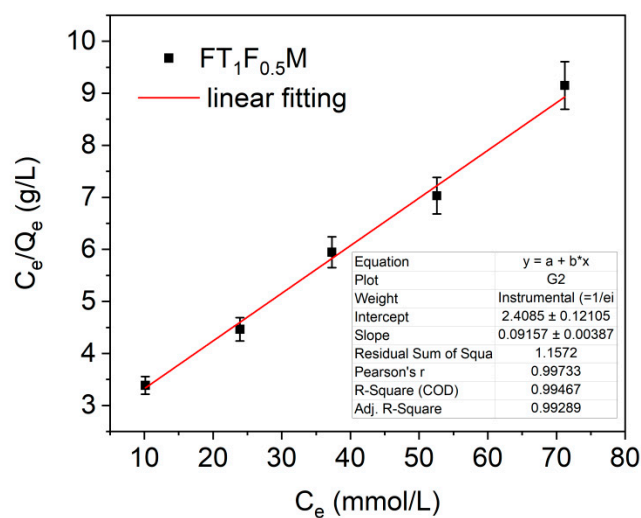


Figure S14. linear fitting between C_e/Q_e and C_e of $FT_1F_{0.5}M$ according to Equation (5) (main text).

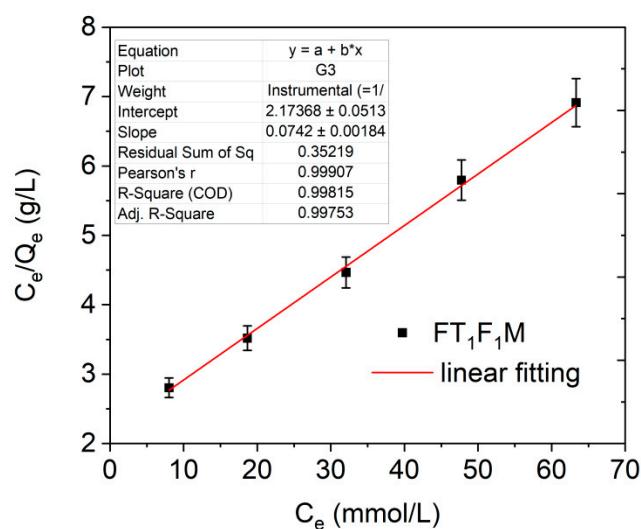


Figure S15. linear fitting between C_e/Q_e and C_e of FT_1F_1M according to Equation (5) (main text).

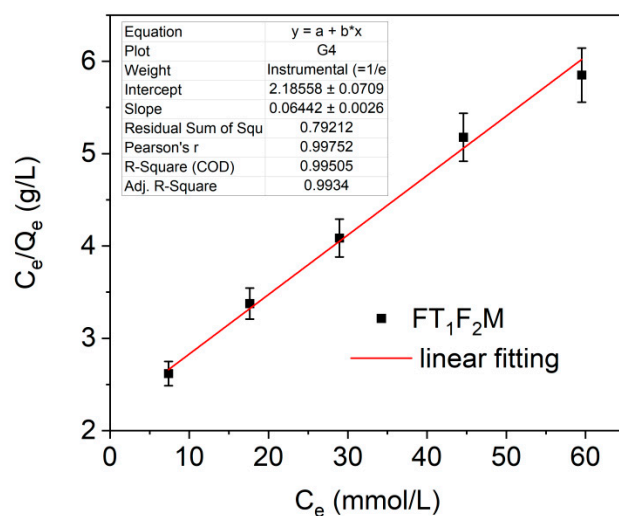


Figure S16. linear fitting between C_e/Q_e and C_e of FT₁F₂M according to Equation (5) (main text).

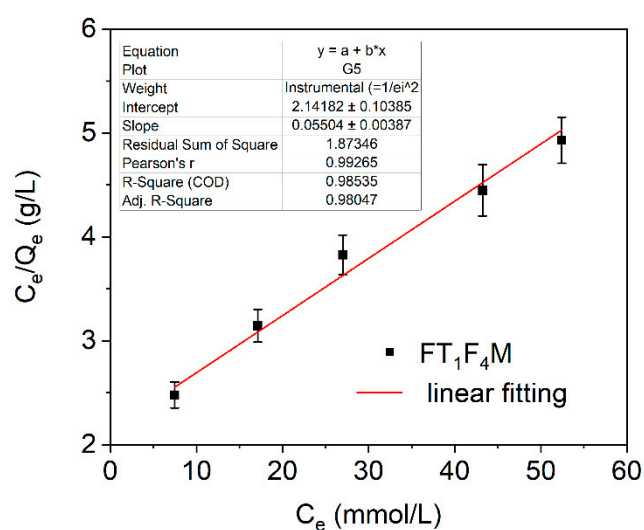


Figure S17. linear fitting between C_e/Q_e and C_e of FT₁F₄M according to Equation (5) (main text).

Table S1. Maximum adsorption capacities for adsorption of Ag⁺ onto various adsorbents.

Absorbent	Adsorption capacity (mmol/g)
Thiourea-modified chitosan resin	3.770[1]
zeolitic material from green tuff stone cake	1.100[2]
Halloysite nanotubes	1.018[3]
Sulfoethyl functionalized silica nanoparticle	0.203[4]
Flowerlike thiourea formaldehyde resin micro-spheres	18.17

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