

Supporting Information

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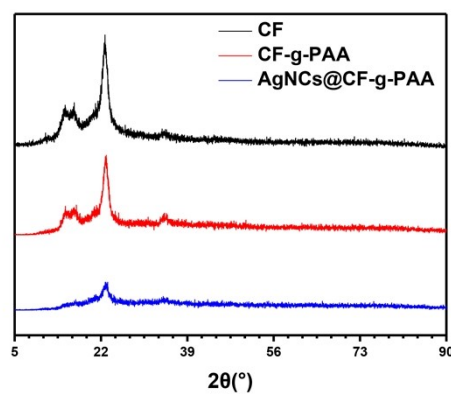


Fig S1. XRD patterns of CF, CF-g-PAA, AgNCs@CF-g-PAA.

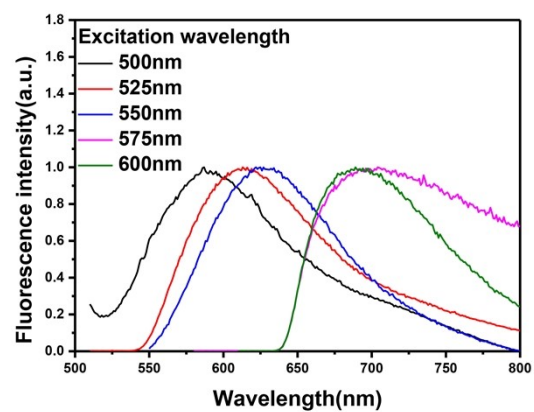


Fig S2. Fluorescence spectra of AgNCs@CF-g-PAA at different excitation wavelengths.

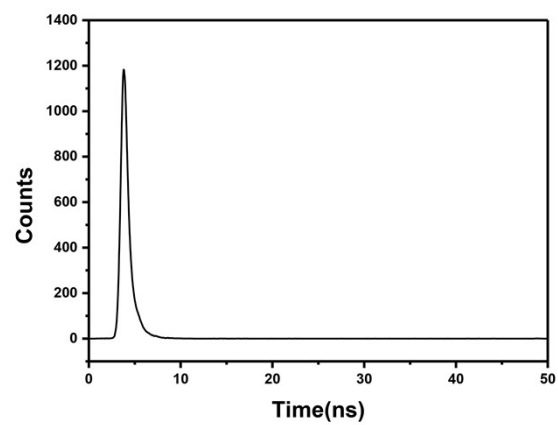


Fig S3. Instantaneous fluorescence spectrum of AgNCs@CF-g-PAA.

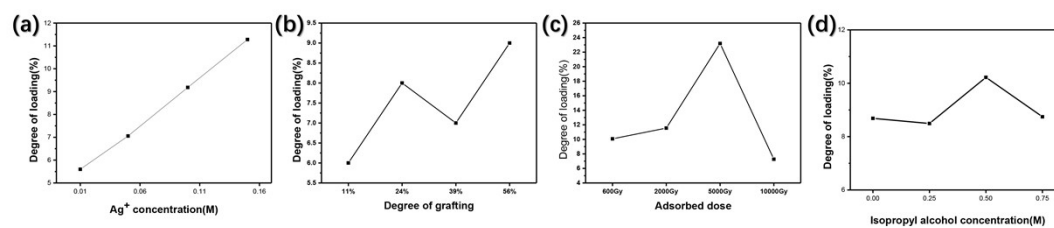


Fig S4. Influence of synthesis conditions on the degree of loading: (a) Silver ion concentration, (b) Degree of grafting, (c) Adsorbed dose, (d) Isopropyl alcohol concentration.

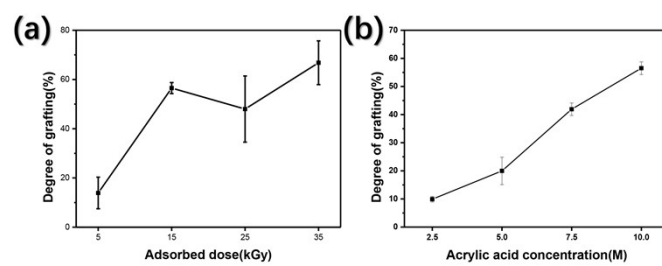


Fig S5. Influence of synthesis conditions on the degree of grafting: (a) Absorbed dose, (b) Acrylic acid concentration.

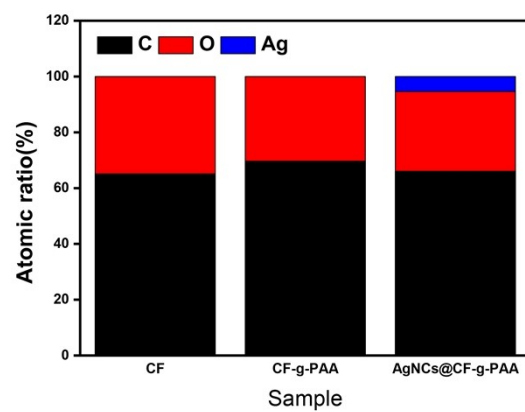


Fig S6. XPS element composition diagram of CF, CF-g-PAA, AgNCs@CF-g-PAA.

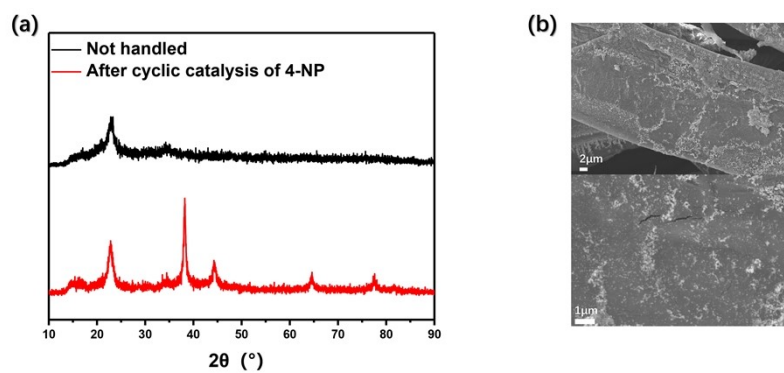


Fig S7. (a) XRD pattern of AgNCs@CF-g-PAA under different treatments; (b) SEM image of AgNCs@CF-g-PAA after cyclic catalysis of 4-NP.



Fig S8. Diagram of catalytic filtration unit.