

Supporting Information

Complex-mediated Growth Mechanism of Silver Nanoparticles/Poly(vinyl alcohol) Composite Nanofibers

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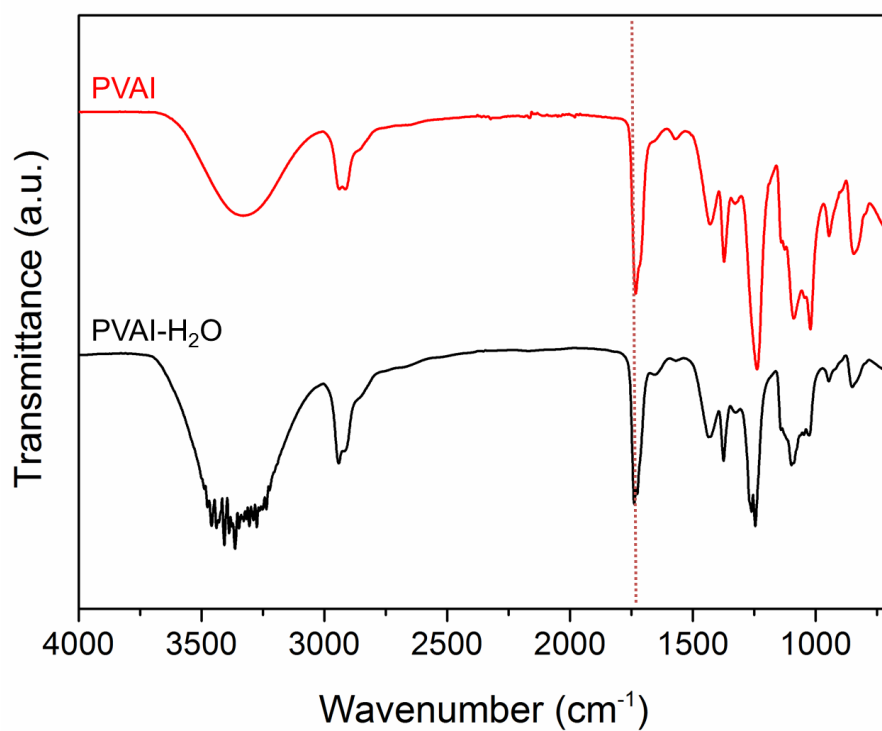


Fig. S1 FTIR spectra of bare PVAI (upper, red line) and PVAI-H₂O (bottom, black line). PVAI-H₂O indicates that the PVAI sample which was once dissolved in water.

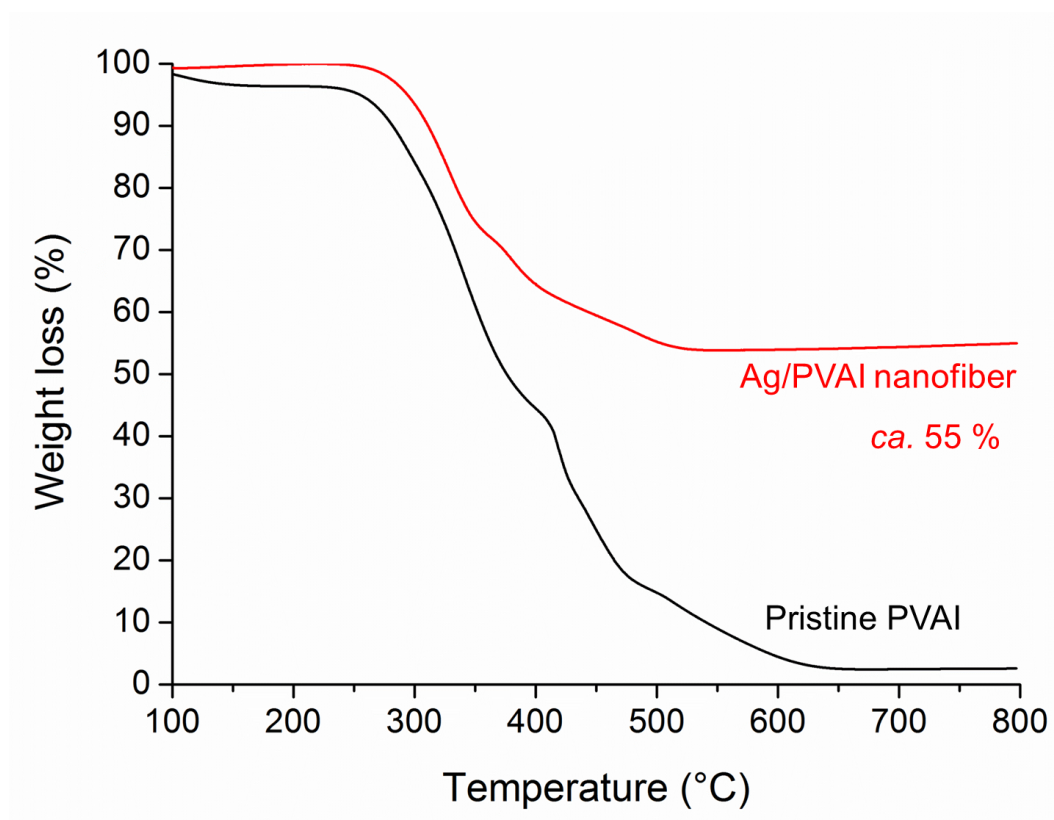


Fig. S2 TGA graph of the silver-PVAI composite nanofibers. Pristine PVAI molecule was used as comparative material.

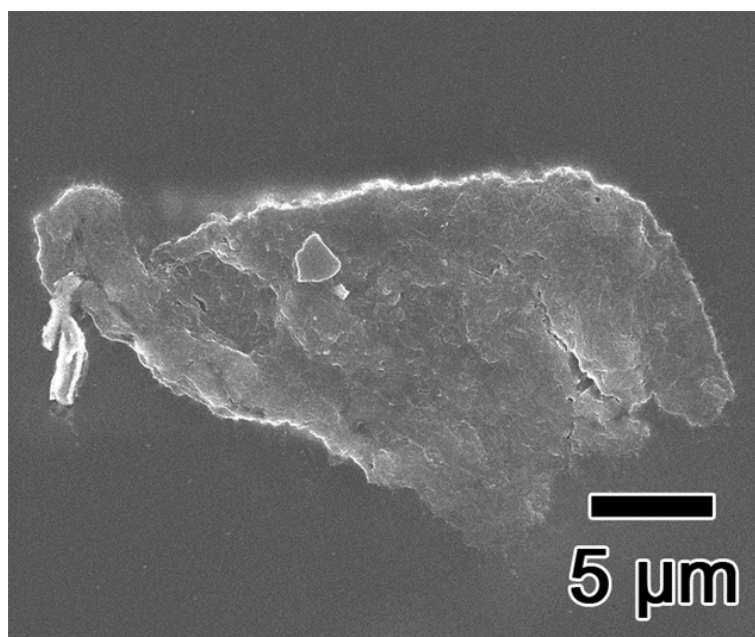


Fig. S3 FE-SEM image of the product which is obtained from the control experiment without AIBN. The reaction was conducted with PVAI and AgNO_3 at 60 °C for 6 h under magnetic stirring condition.

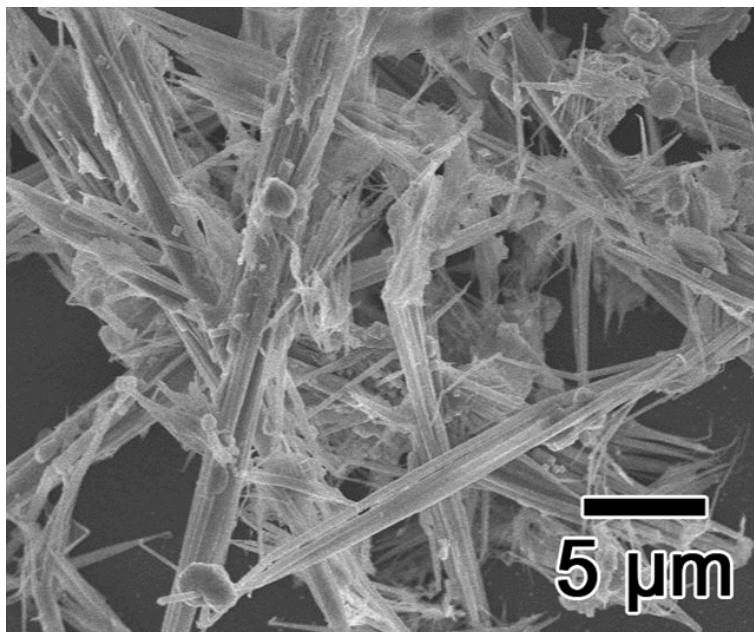


Fig. S4 FE-SEM image of the silver-AIBN nanorods which is obtained from the control experiment without PVAI. The reaction was conducted with AgNO_3 and AIBN at 60 °C for 24 h under magnetic stirring condition.

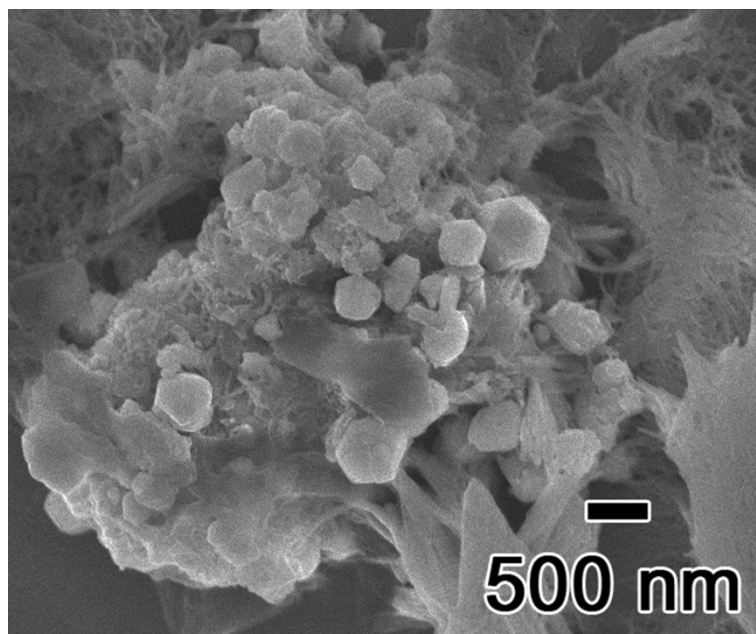


Fig. S5 FE-SEM image of the silver-PVAI composite which is obtained from the control experiment without magnetic stirring. The reactor was putted in water bath at 60 °C for 6 h.