

Electronic Supplementary Information Available

Size-tunable Ag nanoparticles immobilized in electrospun nanofibers: synthesis, characterization, and application for catalytic reduction of 4-nitrophenol

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Contents:

Additional cross-sectional TEM images of ZVI NP-immobilized nanofibrous mats synthesized with 0.025 M, 0.05 M and 0.1 M AgNO₃ solution concentrations, respectively, TGA analysis, and the evaluation of catalytic reduction efficiency of nanofibrous mats with and without AgNPs.

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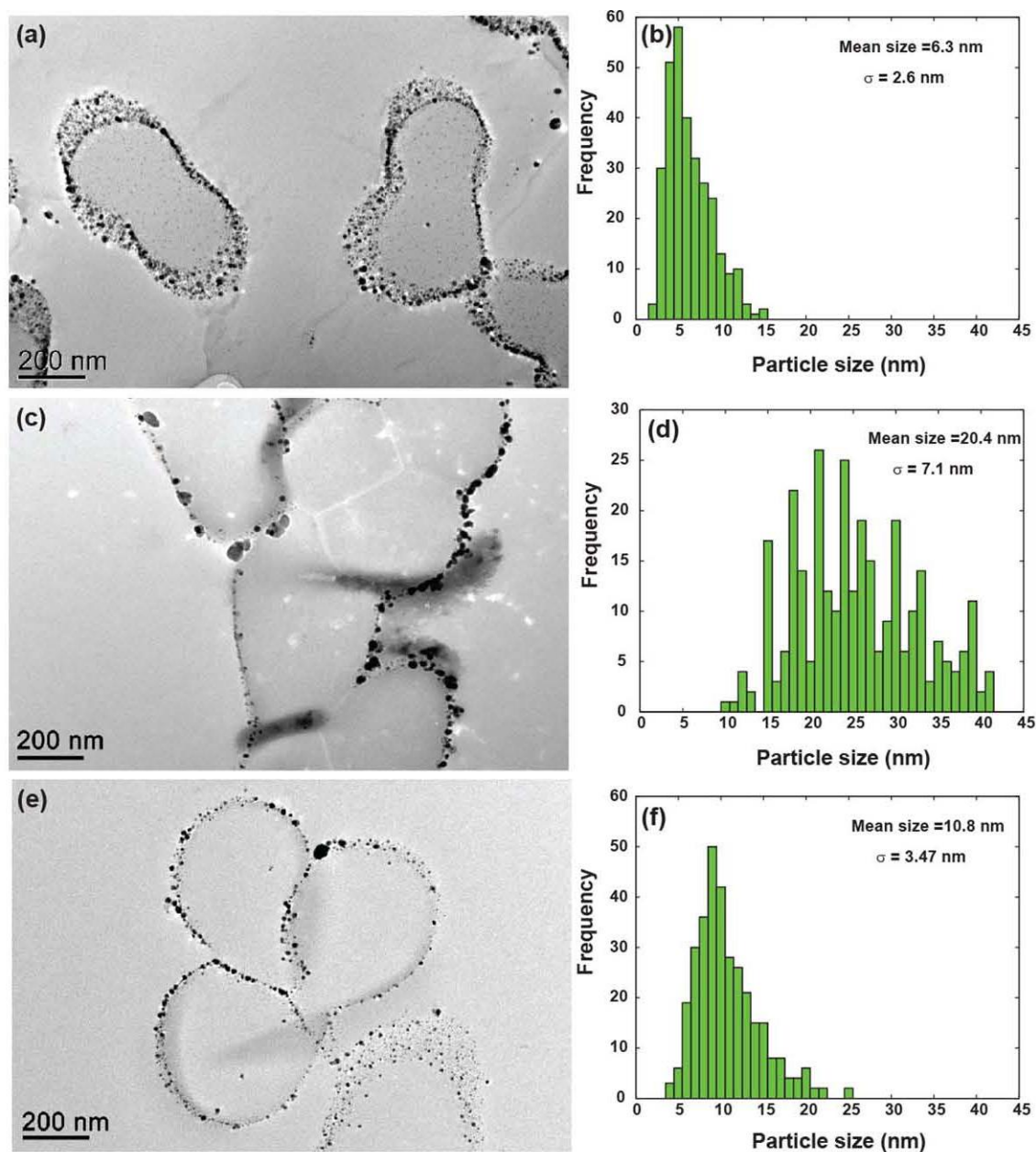


Figure S1. TEM images and size distribution of AgNPs immobilized in the PAA/PVA nanofibers synthesized with 0.025 M (a, b), 0.05 M (c, d), 0.1 M (e, f) AgNO_3 solution, respectively.

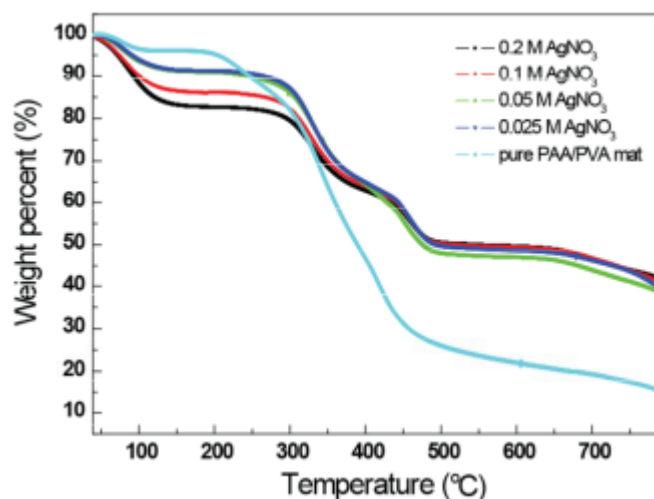


Figure S2. Ag content in the hybrid nanofibrous mats synthesized with different AgNO_3 solution concentrations.

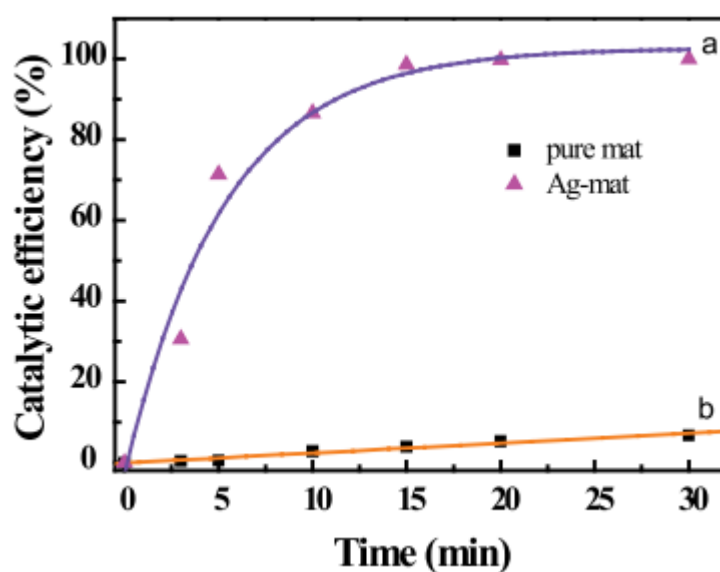


Figure S3. Catalytic reduction efficiency of AgNP-immobilized nanofibrous mats (a) and pure PAA/PVA mat (b) as a function of reaction time. (AgNP-immobilized nanofibrous mats synthesized with 0.2 M AgNO_3 solution)