

Supplementary data

Production and Characterization of Superhydrophobic and Antibacterial Coated Fabrics Utilizing ZnO Nanocatalyst

Mohamed Shaban^{1,*}, Fatma Mohamed^{1,2}, Semsem Abdallah^{1,2}

¹ Nanophotonics and Applications (NPA) Lab, Department of Physics, Faculty of Science, Beni - Suef University, Beni-Suef, 62514, Egypt

² Department of Chemistry, Faculty of Science, Beni-Suef University, Beni-Suef 62111, Egypt

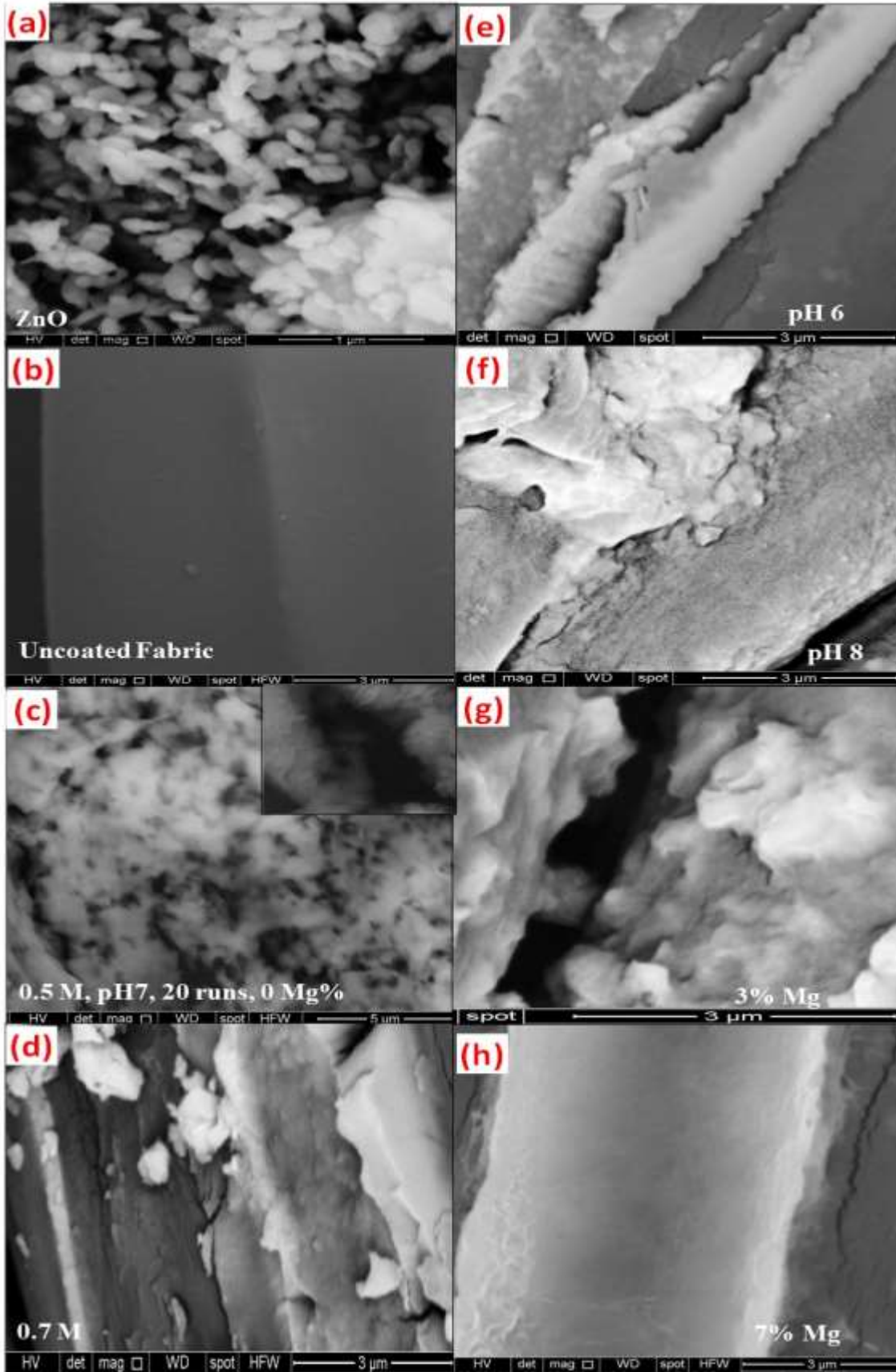


Figure S1. SEM images of (a) ZnO nanoparticles;(b) untreated cotton fabric; ZnO coated fabric at different concentrations of ZnO precursor solution: (c) 0.5 M and (d) 0.7 M at pH 7 and 20 runs; at different pH values: (e) pH 6 and (f) pH 8 at 0.5M precursor concentration and 20 runs; at different Mg doping percent: (g) 3% Mg and (h) 7% Mg at 0.5M precursor concentration, pH 7 and 20 runs.