Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Supporting Information

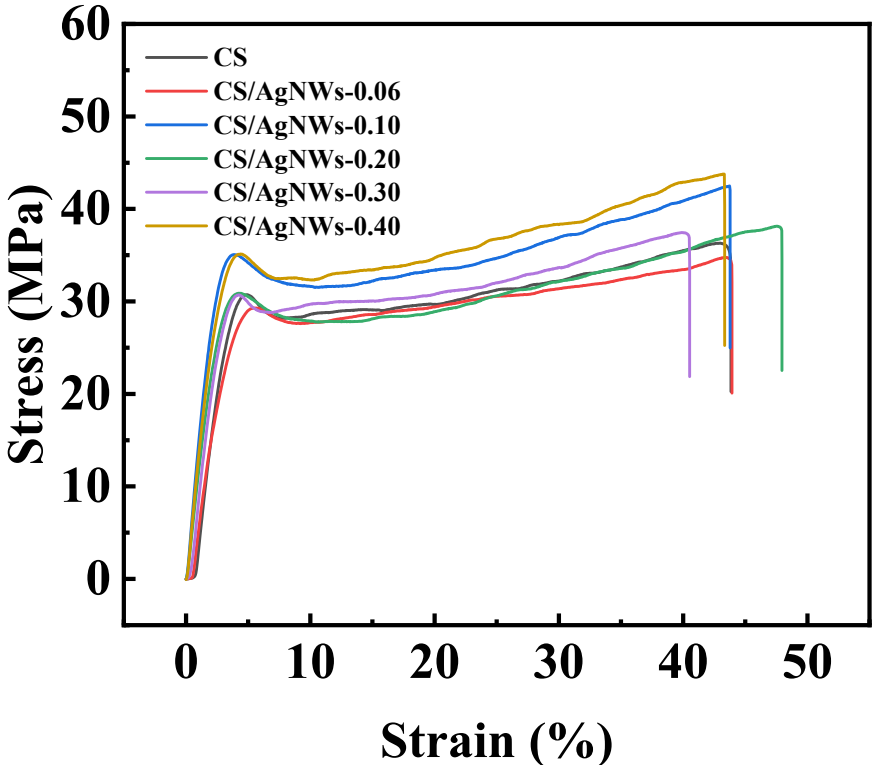

Fig. 1. Stress-strain curves of CS/AgNWs composite films with different AgNWs contents.

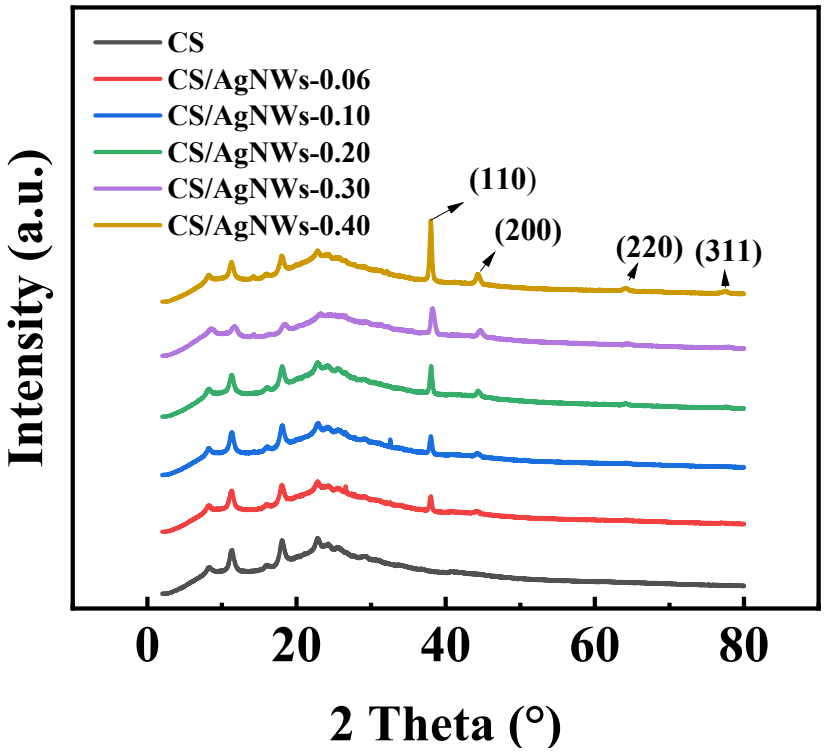

Fig. 2.XRD patterns of pure CS film and CS/AgNWs composite films with different AgNWs contents.

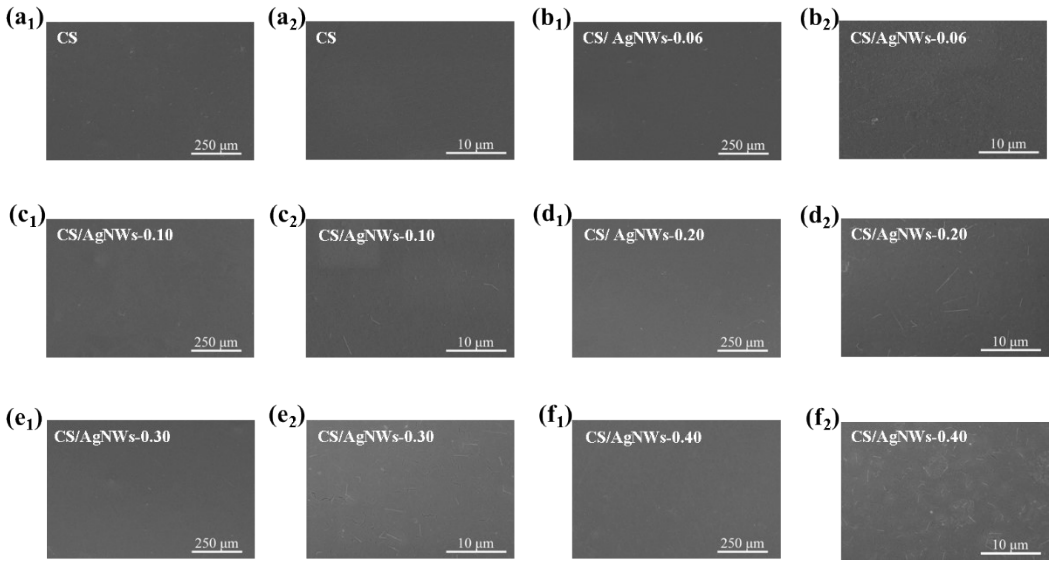

Fig. 3. SEM images of the surface morphology of CS and CS/AgNWs composite films with different AgNWs contents: (a_1-a_2) pure CS; (b_1-b_2) CS/AgNWs-0.06; (c_1-c_2) CS/AgNWs-0.10; (d_1-d_2) CS/AgNWs-0.20; (e_1-e_2) CS/AgNWs-0.30; (f_1-f_2) CS/AgNWs-0.40.

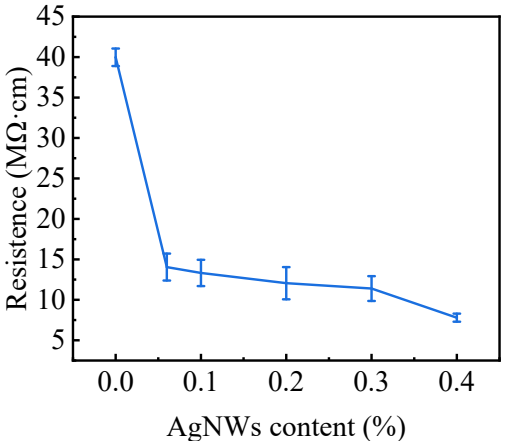

Fig. 4. Resistivity of pure CS film and CS/AgNWs composite films with different AgNWs contents

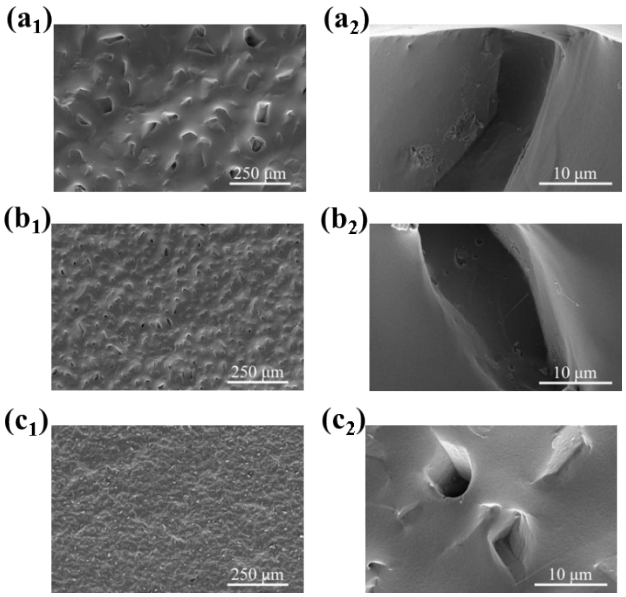

Fig. 5. SEM images of the surface morphology of CS/AgNWs-0.20 composite films processed with sandpaper of different mesh number: (a_1-a_2) CS/AgNWs-0.20-220#; (b_1-b_2) CS/AgNWs-0.20-800#; (c_1-c_2) CS/AgNWs-0.20-2000#.

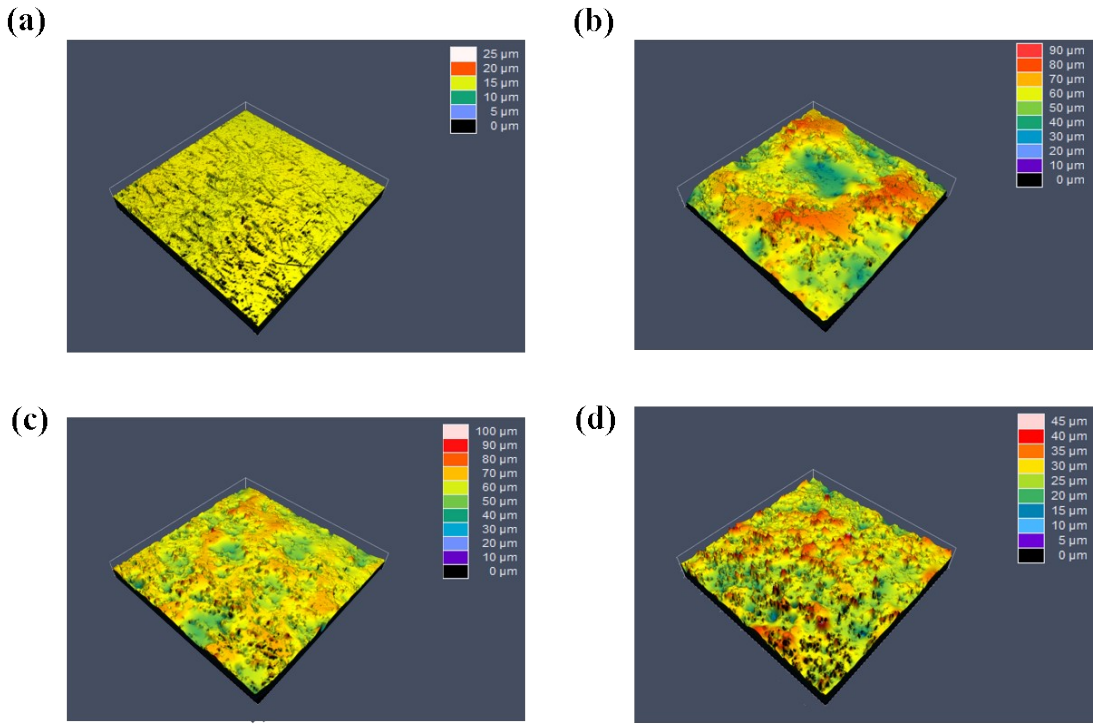

Fig. 6. CLSM images of the surface morphology of CS/AgNWs-0.20 composite films processed with sandpaper of different mesh number: (a) CS/AgNWs-0.20; (b) CS/AgNWs-0.20-220#; (b) CS/AgNWs-0.20-800#; (d) CS/AgNWs-0.20-2000#.