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

Interfacial adhesion enhancement of inkjet printed transparent metallic grids electrodes induced by coffee-ring effect

Zhiliang Zhang *[ac] and Jun Liu [b]

[a]*Shandong Provincial Key Laboratory of Fine Chemicals, School of Chemistry and Pharmaceutical Engineering, Qilu University of Technology, Jinan 250353, China*

[b] *School of Leather Chemistry and Engineering, Faculty of Light Industry, Qilu University of Technology, Jinan 250353, China*

[c]*Beijing National Laboratory for Molecular Sciences (BNLMS), Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China*

**Email: zhzhl@iccas.ac.cn*

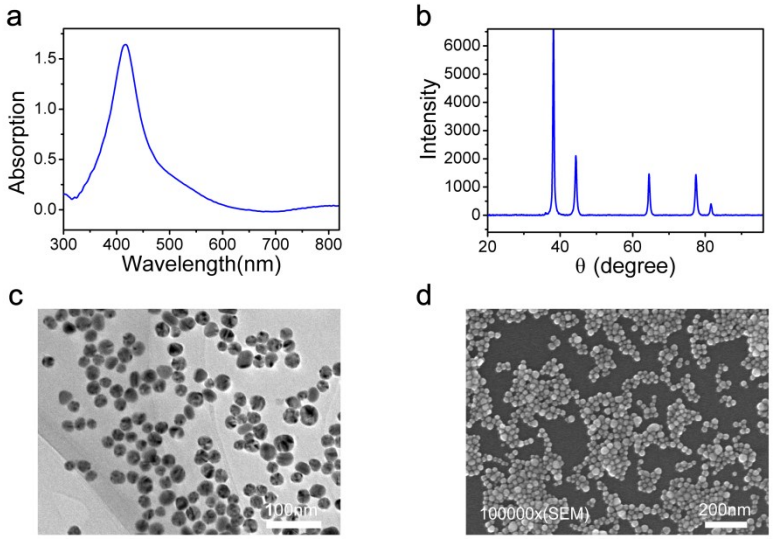

Fig.S1 (a) UV-vis spectrum, (b) XRD spectrum, (c) TEM and (d) SEM images of the synthesized AgNPs.

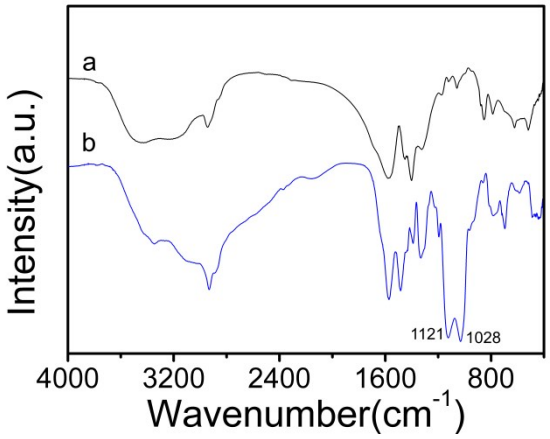

Fig.S2 (a) IR of AgNPs in initial state (b) IR of AgNPs after APTS treatment

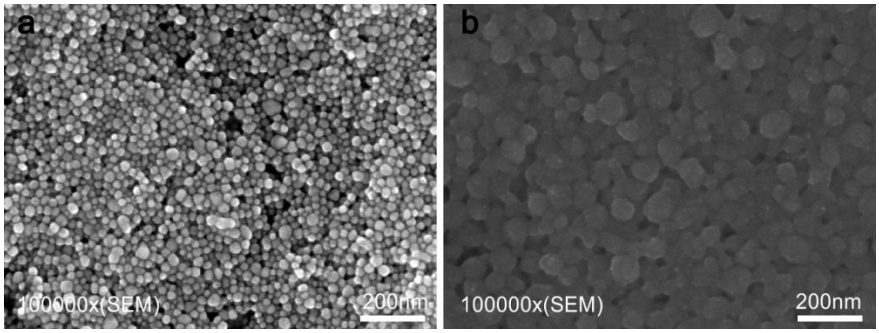

Fig.S3 (a) SEM image of the ink-jet printed AgNPs after APTS treatment (b) the surface topography changes after sintering treatment

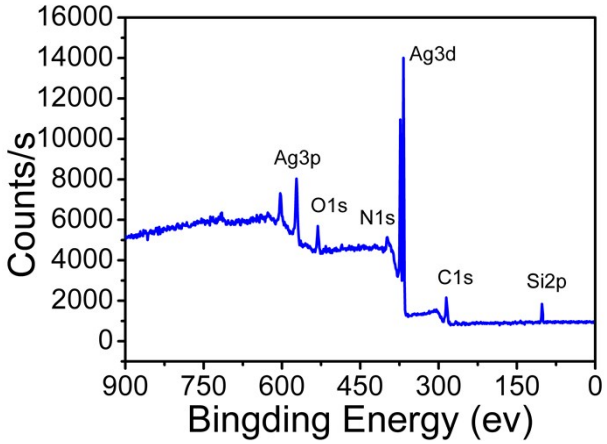

Fig.S4 XPS of the AgNPs after the sintering treatment