SUPPORTING INFORMATION

Roll-to-roll slot die production of 300-mm large area silver nanowire mesh films for flexible transparent electrode

Byung-Yong Wang,^a Eung-Seok Lee, ^b Dae-Soon Lim,^b
Hyun Wook Kang,^{c†} and Young-Jei Oh^{d,e†}

^a Center for Semiconductor Technology, Korea University, 145 Anam-ro, Seongbuk-gu, Seoul, 02841, Republic of Korea.

^b Department of Materials Science and Engineering, Korea University, 145 Anam-ro, Seongbukgu, Seoul, 02841, Republic of Korea.

^c Department of Mechanical Engineering, Chonnam National University, 77 Yongbong-ro, Bukgu, Gwangju 61186, Republic of Korea.

^d Opto Electronic Materials and Devices Center, Korea Institute of Science and Technology, 5 Hwarang-ro 14-gil, Seongbuk-gu, Seoul 02792, Republic of Korea.

^e Department of Nano Materials Science and Engineering, University of Science and Technology, 217 Gajeong-ro, Yuseong-gu, Daejeon 34113, Republic of Korea.

 Table S1. Process variables and slot die parameters.

Process variables	
Gap between coater and web	50um
Pump feeding rate (RPM)	10 ~ 100
Web speed (m/min)	1 ~ 10
Slot die parameters	
Ink viscosity (cp)	40
Slot die shim (um)	30, 50, 100
Substrate	Acrylic resin over coating PET
Web width	45 mm
Coating length	380 m
Drying temperature	60℃ - 80℃ - 100℃ - 80℃
R2R machine used	People & Techology, Inc., korea

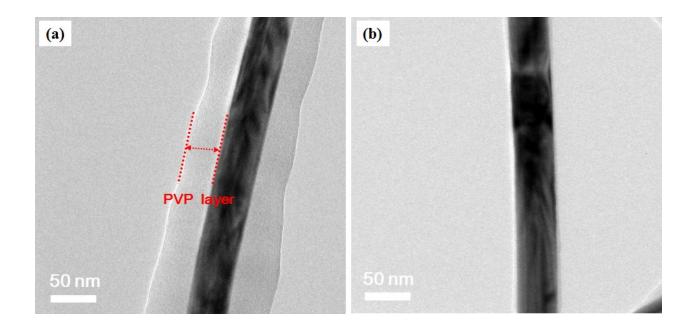


Figure S1. TEM images of the AgNW according to washing: (a) without washing, (b) x6 times washing.

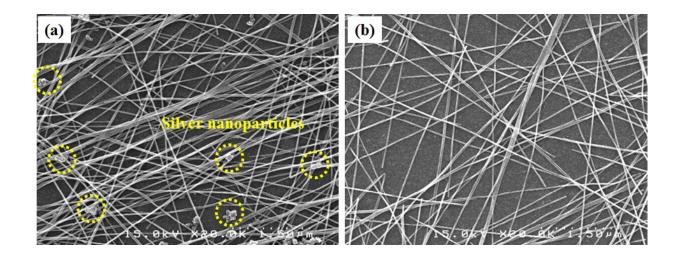


Figure S2. SEM images of the AgNW with different purification. (a) before purification, (b) after purification.

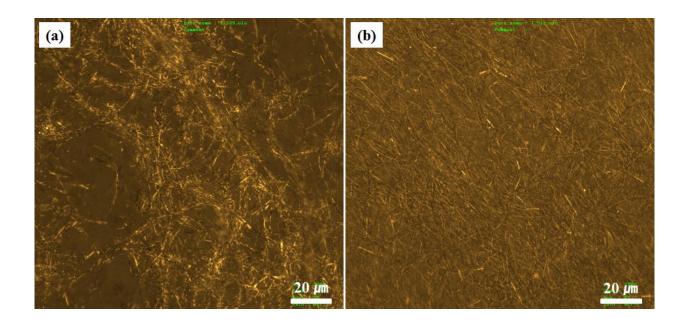


Figure S3. CLSM photos of AgNW mesh films obtained from (a) unformulated AgNW dispersion and (b) formulated AgNW dispersion with polymer dispersant.

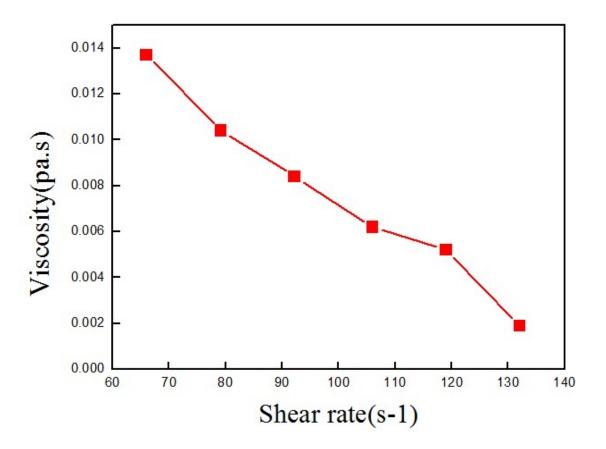


Figure S4. Viscosity(Pa·s) versus shear Rate(S⁻¹) of the AgNW