



Showcasing research from Professor Wallace Choy's laboratory, University of Hong Kong, Hong Kong, China.

A bottom-up understanding of the ligand-dominated formation of metallic nanoparticle electrodes with high broadband reflectance for enabling fully solution-processed large-area organic solar cells

Choy's team demonstrate a compact-packing approach for stacking and sintering metallic nanoparticles for top electrodes with high conductivity and high broadband reflectance for high-throughput large-scale applications. Featuring the self-packing ability of silver nanoparticles (AgNPs) and superior space proportion of silver, gallic-acid-assisted AgNPs with a uniform distribution of particle size and superior storage stability from high-quality AgNP film in low-temperature sintering enabling fully solution-processed large-area organic solar cells with the record efficiency of 14.69%.

As featured in:



See Haibin Su,
Wallace C. H. Choy *et al.*,
Energy Environ. Sci., 2023, **16**, 3770.