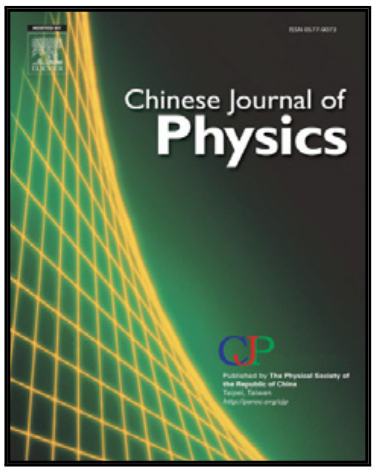

Improved efficiency of small-molecular (S-M) tandem organic solar cells (TOSCs) by employing low work function alloy nanoparticle intermediate layer

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Highlights:

- The TOSCs with various alloy intermediate layers result lower sheet resistance.
- Gap states formed at the buffer layer/alloy intermediate layer interface.
- The PCE of the PHJ TOSC with Mg-Ag alloy intermediate layer is enhanced 7.5%.
- The PCE of the BHJ TOSC with Mg-Ag alloy intermediate layer is doubled.