

PVDF ZnO particle hybrid thin film

_____, _____, _____, _____ *

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Polyvinylidene fluoride(PVDF) 가 가
 , energy harvester sensor . , ZnO visible 80 %
 가
 phase PVDF ZnO particle hybrid , 가 film
 PVDF ZnO hybrid film solution method
 . PVDF precursor ZnO particle spin-coating method
 thin film hybrid film ZnO piezoelectric output voltage
 current density pushing tester oscilloscope , UV-Visible
 spectroscopy FT-IR PVDF phase
 . Output voltage current density PVDF film 0.5 V, 80 nA/cm²
 ZnO particle 가 . Transmittance PVDF film
 55 % , 10 % ZnO particle hybrid film wavelength 500 nm 70
 % , FT-IR ZnO particle
 phase .