

Supporting Information

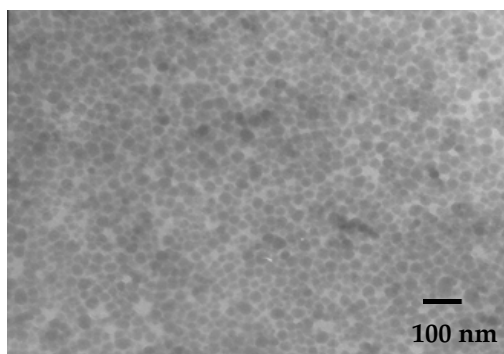


Figure S1. The TEM image of inorganic $\text{TiO}_2\text{-SiO}_2$ nanoparticles.

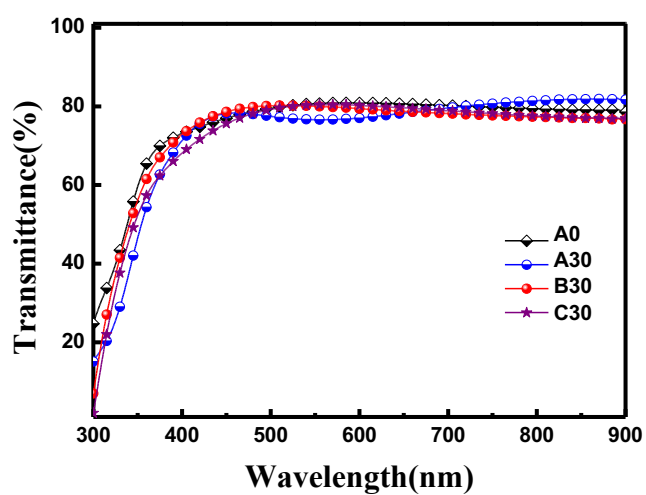


Figure S2. The optical transmittance of A0, A30, B30, and C30 films as the dielectric layer of OTFTs device.

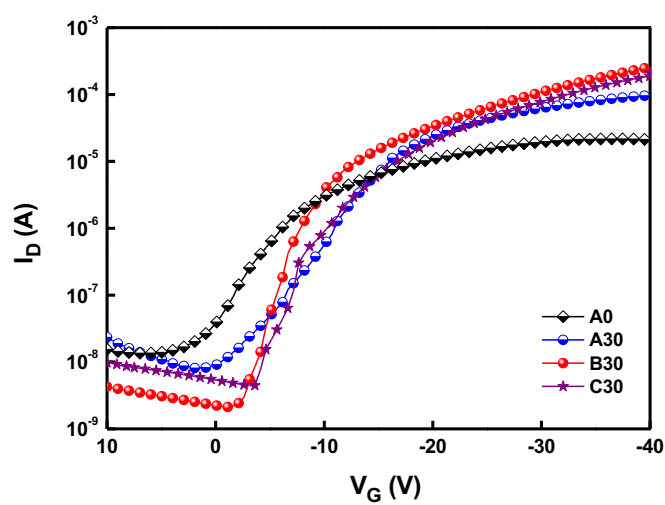


Figure S3. The transfer curves of OTFTs prepared by different dielectric layer materials, A0, A30, B30, and C30.

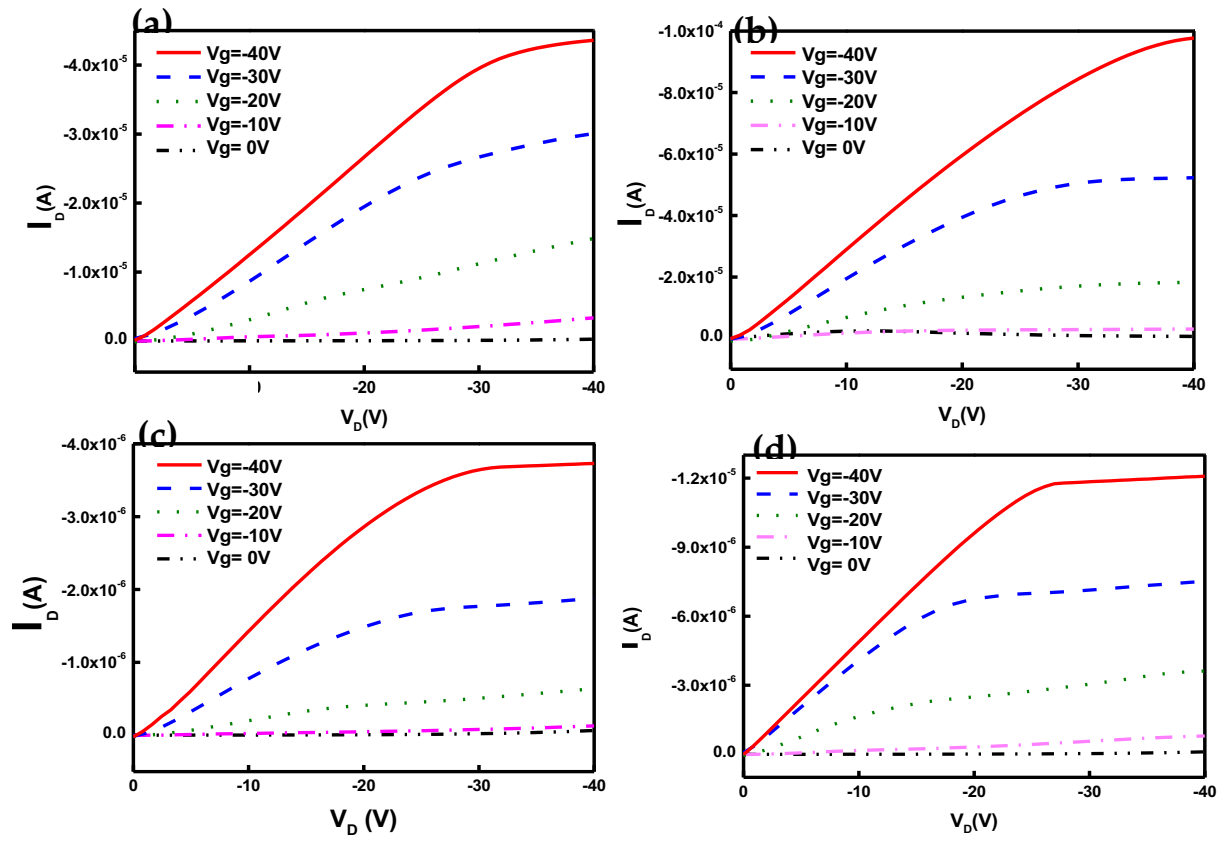


Figure S4. The output characteristics of the OTFTs prepared by different dielectric layer materials: (a) A0, (b) A30, (c) B30, and (d) C30.