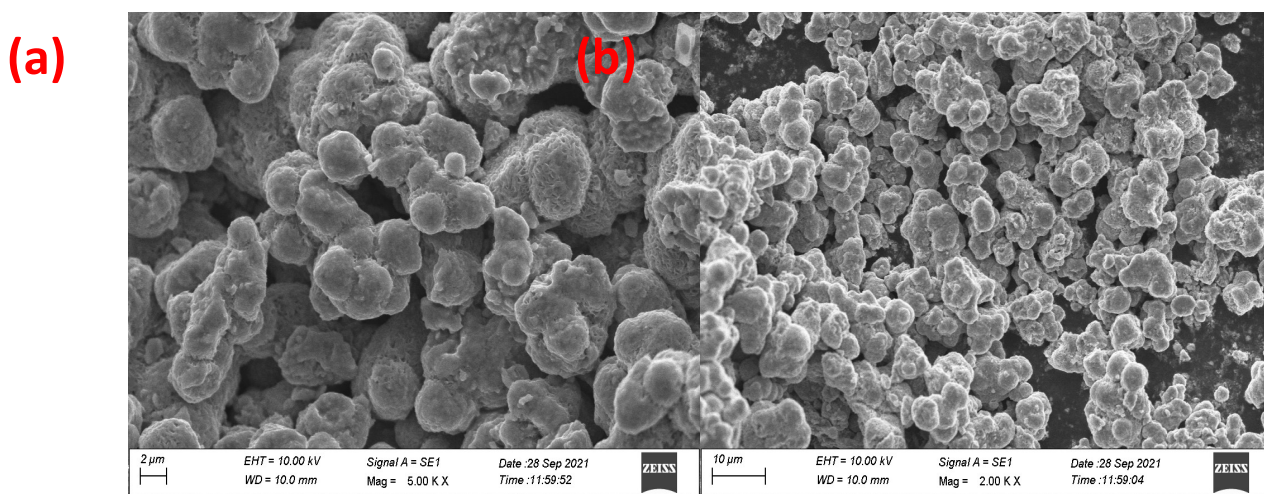


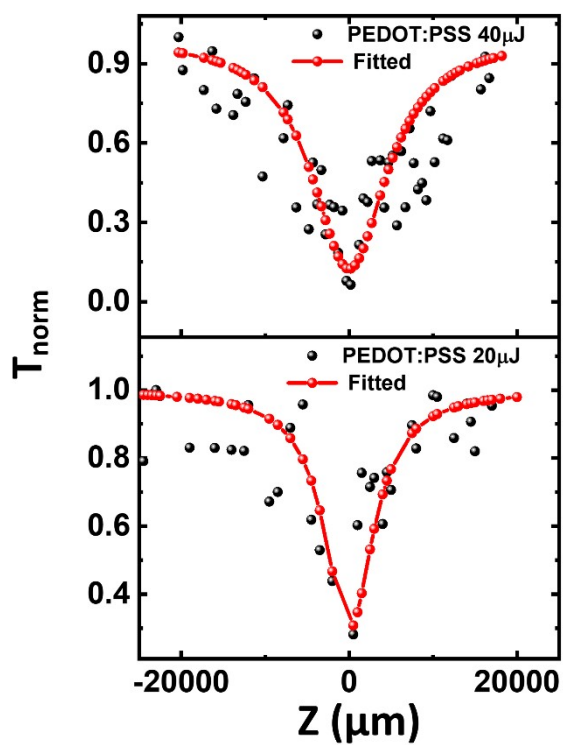
## Enhancing Saturable Absorption in Au-Decorated MoS<sub>2</sub>/PEDOT:PSS Nanocomposite through Plasmon Resonance and Pauli Blocking

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**Fig S1 (a and b) SEM images of pure MoS<sub>2</sub>**



**Fig S2** Sample position-dependent optical transmittance of PEDOT:PSS films calculated from the open aperture  $Z$ -scan With varying input pulse energies (20 and 40  $\mu\text{J}$ )