

EXCITONS WITH CHARGE TRANSFER
IN SnCl₂-PHTHALOCYANINE FILMS

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S u m m a r y

The absorption, modulated photorefectance, and photovoltage spectra of dichlorotin phthalocyanine (SnCl₂Pc) films have been measured. These films are thermally deposited in vacuum at different substrate temperatures. The energies of charge-transfer-states (CT-states) in SnCl₂Pc films (1.35, 1.52, and 2.05 eV) and the diffusion length of Frenkel excitons (130±30 nm) have been determined. The photosensitivity of SnCl₂Pc films is comparable to that of *n*-type perylene derivative (MPP) layers and by several times (≈ 5) more than the photosensitivity of thermally deposited *n*-type C₆₀ films.