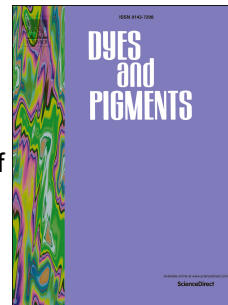


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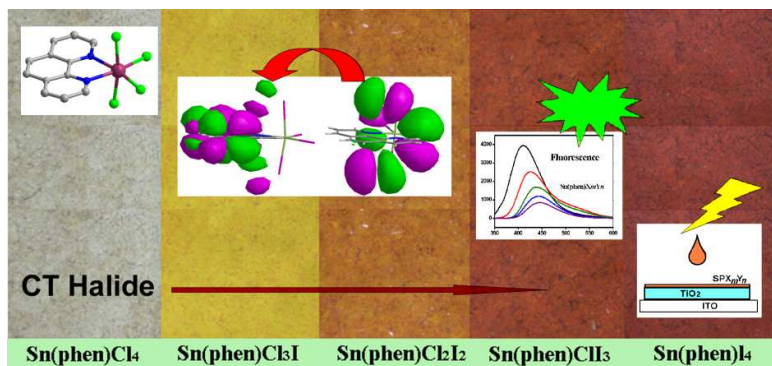
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Graphical abstract

Composition dependent structural, optical and photosensitive properties of a series of charge-transfer tin halides

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A series of hybrid tin halides $\text{Sn(phen)}X_mY_n$ were designed and prepared. Their absorption and fluorescence spectra are continuously adjustable by changing the composition of different halide elements. These main-group metal halides have ligand to ligand charge-transfer properties and can be used as photoelectrosensitizers.

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