Synthesis, structure, and surface photovoltage properties of a series of novel $d^7$-$d^{10}$ metal complexes with pincer N-heterocycle ligands

Xuan Wang$^a$, Yong Heng Xing$^a$$^*$, Feng Ying Bai$^b$$^*$, Xin Yu Wang$^a$, Qing Lin Guan$^a$, Ya Nan Hou$^a$, Rui Zhang$^a$ and Zhan Shi$^c$

Fig. S1 The Solid-state IR spectra of complex 1 at a room temperature
**Fig. S2** The Solid-state IR spectra of complex 2 at a room temperature

![IR spectrum of complex 2](image2.png)

**Fig. S3** The Solid-state IR spectra of complex 3 at a room temperature

![IR spectrum of complex 3](image3.png)

**Fig. S4** The Solid-state IR spectra of complex 4 at a room temperature

![IR spectrum of complex 4](image4.png)
Fig. S5 The Solid-state IR spectra of complex 5 at a room temperature

Fig. S6 XRD spectrograms of complexes 1
Fig. S7 XRD spectrograms of complexes 2

Fig. S8 XRD spectrograms of complexes 3
Fig. S9 XRD spectrograms of complexes 4

Fig. S10 XRD spectrograms of complexes 5