**Supporting Information**

**Conducting films based on single-component molecular metals**

![I-V curves for unbaked and baked [Au(α-tpdt)2] films prepared from different solvents.](image)

**Fig. S1**  *I-V* curves for unbaked and baked [Au(α-tpdt)2] films prepared from different solvents.

![SEM images of [Au(α-tpdt)2] films prepared with: (a) acetonitrile, and (b) dichlorobenzene.](image)

**Fig. S2**  SEM images of [Au(α-tpdt)2] films prepared with: (a) acetonitrile, and (b) dichlorobenzene.
**Fig. S3** Effect of baking on [Au(α-tptd)2] films prepared from different solvents: (a) acetonitrile, (b) toluene, and (c) dichloromethane.

**Fig. S4** Histogram of sheet resistance values of: (a) [Au(α-tptd)2], and (b) [Ni(dtdt)2].

**Fig. S5** Optical images of: (a) [Au(α-tptd)2], and (b) [Ni(dtdt)2].