SASOLAR13 FINAL REPORT FIGURES. PUBLISHABLE SUMMARY.

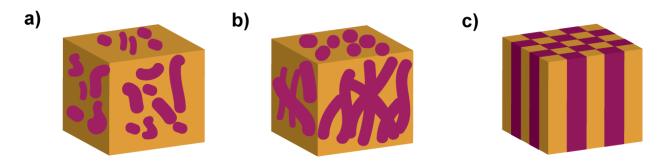


Figure 1: Possible morphologies of the active layer of BHJ OPV devices. a, Phase-separation leads to dispersed domains of donor \mathbf{D} (dark) and acceptor \mathbf{A} (light) molecules. \mathbf{b} , Fibrous assemblies of \mathbf{D} molecules, made possible by molecular recognition using hydrogen-bonding and π - π stacking as proposed in this project, percolate the continuous \mathbf{A} phase. \mathbf{c} , Ideal morphology for BHJ OPV devices calculated using dynamical Monte Carlo modelling, leading to the highest possible power conversion efficiency.

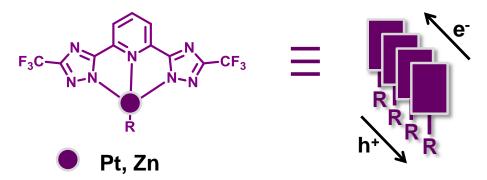


Figure 2: Schematic representation of the assemblies formed by square planar platinum (II) complexes. The Pt complexes contain a tridentate ligand and a semiconducting segment pending in the ancillary ligand.

Scheme 1: Synthesis of the Pt complexes containing semiconductors. Synthetic scheme of the library of Pt(II) complexes containing semiconducting segments.