

Fig. S1 (a) Top view of the unit cell (b). The unit-cell vector \vec{c} (not shown) is along \hat{z} and extends from 0 to 80 Å. (c) is a projection of (b) along unit-cell vector \vec{b} . (e, d, f) show interfacial built-in electrostatic potential (V_{b-i}) for the OPE atop junction (in eV) and is averaged along the \vec{b} ; the atoms pinpoint their corresponding positions in the $\hat{x} - \hat{z}$ plane when projected along \vec{b} , as also shown in (c). All spatial coordinates in Ångstroms.