

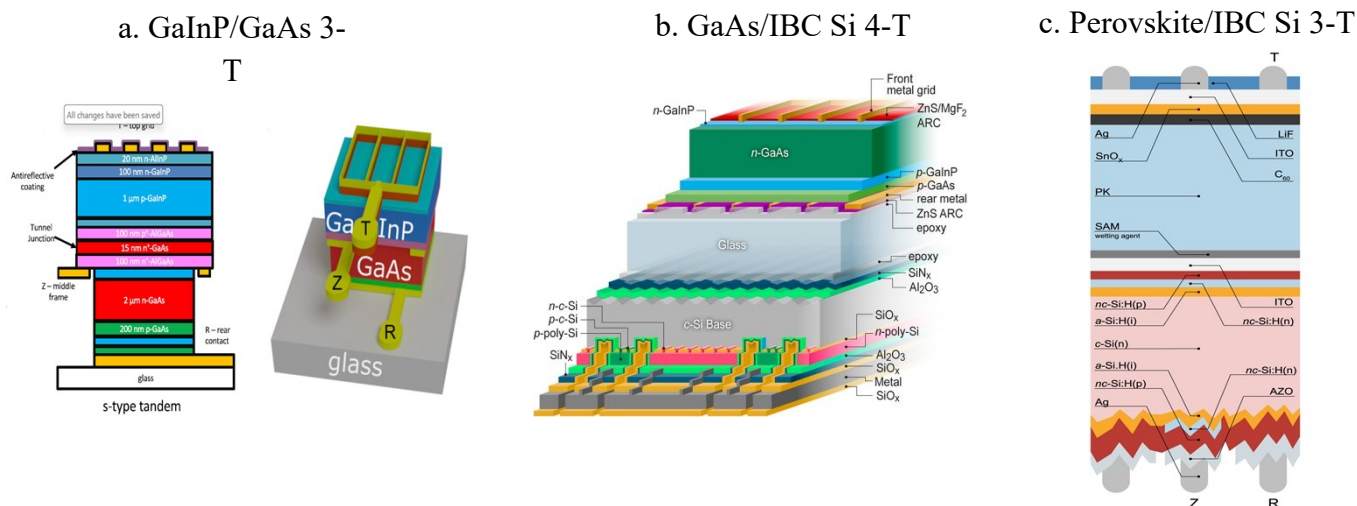


Fig. S1. Device schematics of the three multi-terminal cells in the paper: (a) GaInP/GaAs 3-T, *Geisz et. al.*[15] (b) GaAs/IBC Si 4-T, *VanSant et. al.* [10], and (c) perovskite/IBC Si 3-T, *Kikelj et. al.*[11].

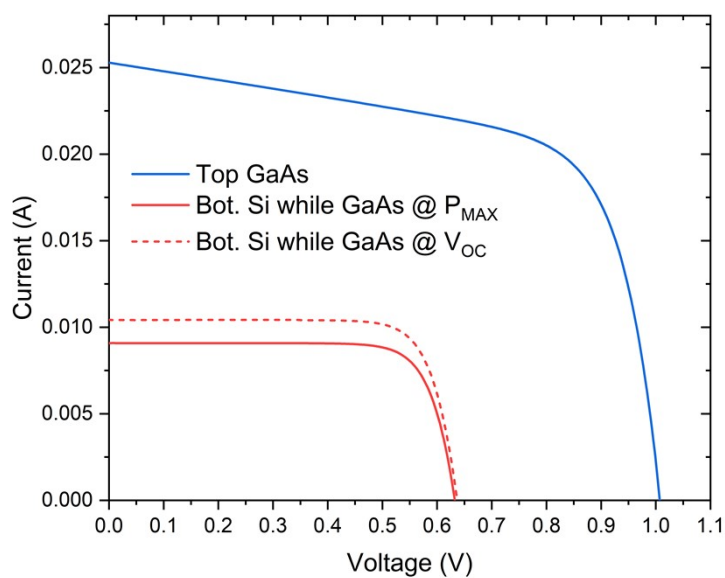


Fig. S2. Separate light I-V curves of the GaAs/Si 4-T tandem cell shown in Fig. 4.