

Supporting Information

Silicon/Nickel oxide core/shell nanospheres as hole transport layer for high efficiency and light stable perovskite solar cells

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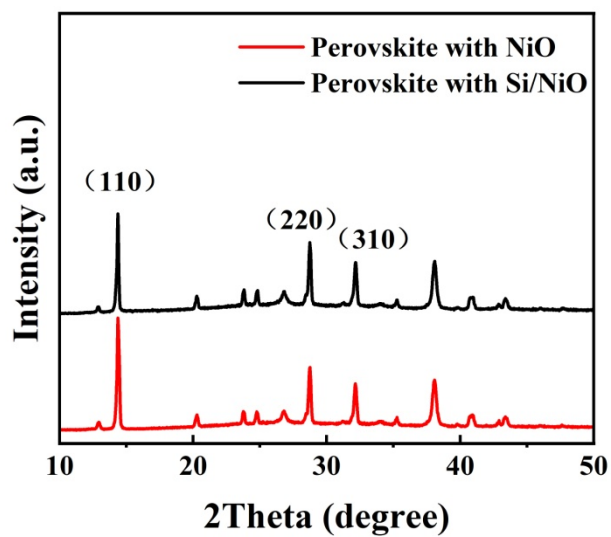


Fig. S1 XRD patterns of perovskite film based on NiO and Si/NiO HTLs.

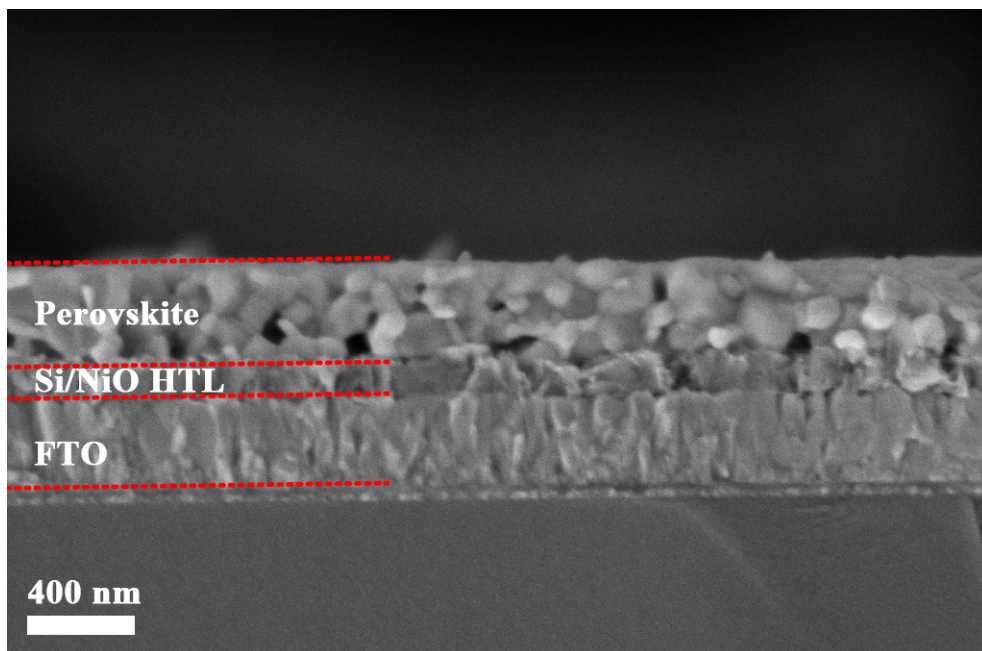


Fig. S2 Cross-section SEM image of perovskite solar cell.

Table. S1 The photovoltaic parameters of PSC devices.

Device	J_{sc} (mA/cm ²)	Voc(V)	FF(%)	PCE(%)
NiO	21.71 ± 0.18	1.08 ± 0.01	74 ± 0.01	17.61 ± 0.26
Si/NiO	22.09 ± 0.16	1.10 ± 0.01	78 ± 0.01	18.54 ± 0.32