Supporting Information

for

Co-axial electrospray: A versatile tool to fabricate the hybrid electron transporting materials for high efficiency and stable perovskite photovoltaics



Figure S1. Typical EDX spectrum of ZnO NFs as shown in figure 2a.



Figure S2. Typical EDX spectrum of TiO₂ NB,s as shown in figure 2b.



Figure S3. Typical EDX spectrum of ZnO NF,s + TiO₂ NB,s as shown in figure 2c.



Figure S4. Cross-sectional SEM image of complete perovskite solar cell based on hybrid ETM.



Figure S5. *J-V* curves for three different ETMs as a function of film thicklness.