

## Electronic Supplementary Information (ESI)

### Interfacial engineering by using self-assembled monolayer in mesoporous perovskite solar cell

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**Table S1** Photovoltaic performance of perovskite device (more than eight individual cells) with standard errors.

| Device                 | Sweep Direction | V <sub>oc</sub> (V) | J <sub>sc</sub> (mA/cm <sup>2</sup> ) | FF          | PCE (%)      |
|------------------------|-----------------|---------------------|---------------------------------------|-------------|--------------|
| TiO <sub>2</sub>       | Forward         | 0.91 ± 0.04         | 18.42 ± 0.79                          | 0.43 ± 0.01 | 7.04 ± 0.45  |
|                        | Reverse         | 0.94 ± 0.01         | 19.29 ± 0.78                          | 0.50 ± 0.01 | 9.17 ± 0.46  |
| TiO <sub>2</sub> /PABA | Forward         | 0.89 ± 0.02         | 18.34 ± 0.13                          | 0.52 ± 0.01 | 8.48 ± 0.32  |
|                        | Reverse         | 0.93 ± 0.01         | 21.42 ± 0.87                          | 0.51 ± 0.01 | 10.31 ± 0.27 |