

## Work-Function Tuneable and Aqueous Solution-Processed $\text{Cs}_2\text{CO}_3$ for High-Performance Polymer Solar Cells

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**Table S1**  $J$ - $V$  characteristics of photovoltaic devices using  $\text{Cs}_2\text{CO}_3$  cathode buffer layers from the solutions with different  $\text{Cs}_2\text{CO}_3$  concentrations and 5.0 mg/ml  $\text{Cs}_2\text{CO}_3$  with and without doped with 10%  $\text{MoO}_3$  and  $\text{Na}_2\text{WO}_4$  aqueous solutions.

Buffer layer	$V_{oc}$ (V)	$J_{sc}$ (mA/cm <sup>2</sup> )	FF(%)	PCE(%)
Reference	0.57	12.05	45	3.14
0.1 mg/ml $\text{Cs}_2\text{CO}_3$	0.59	12.23	46	3.27
0.1 mg/ml $\text{Cs}_2\text{CO}_3$ :10 % $\text{MoO}_3$	0.59	12.12	45	3.21
0.1 mg/ml $\text{Cs}_2\text{CO}_3$ :10 % $\text{Na}_2\text{WO}_4$	0.60	12.15	46	3.25
1.0 mg/ml $\text{Cs}_2\text{CO}_3$	0.61	12.53	45	3.42
1.0 mg/ml $\text{Cs}_2\text{CO}_3$ :10 % $\text{MoO}_3$	0.62	12.54	45	3.45
1.0 mg/ml $\text{Cs}_2\text{CO}_3$ :10 % $\text{Na}_2\text{WO}_4$	0.71	12.40	46	4.01
5.0 mg/ml $\text{Cs}_2\text{CO}_3$	0.71	12.55	50	4.43
5.0 mg/ml $\text{Cs}_2\text{CO}_3$ :10% $\text{MoO}_3$	0.76	12.35	52	4.89
5.0 mg/ml $\text{Cs}_2\text{CO}_3$ :10% $\text{Na}_2\text{WO}_4$	0.81	12.49	52	5.25

**Figure S1** AFM image of the bare ITO substrates.

