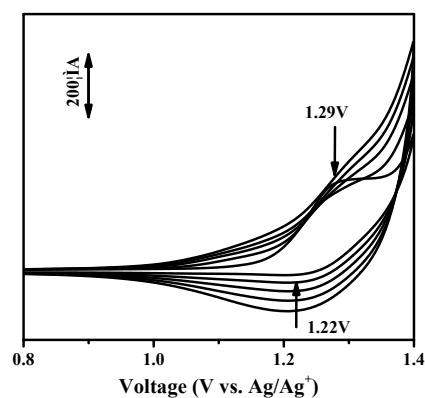


## Supporting Information

### A Conjugated Microporous Polymer Film by in-situ Electro-chemical Deposition as Hole Transporting Layers in Organic Photovoltaics

Shuo Yang, Chengdong Yang, Xuning Zhang, Zhong Zheng, Shiqing Bi, Yuan Zhang,  
Huiqiong Zhou\*



**Fig. S1** CV profiles of the precursor solution in acetonitrile/DCM (1:4 v/v) in the presence of the TBAP as supporting electrolyte at ambient temperature with the scan rate of 0.05 V/s.

**Table S1** Performances of devices based on CMPs films  
with different monomer solution concentration  
(Cut-off potential: 1.4 V, scan cycles: 2 cycles)

Concentration/ mmol	$V_{oc}/V$	$J_{sc}/mA \cdot cm^{-2}$	FF/%	PCE/%
0.3	0.70	16.07	55.47	6.24
0.4	0.80	16.47	67.53	8.85
0.5	0.72	16.22	54.48	6.36

**Table S2** Performances of devices based on CMPs films  
with different cut-off potential  
(Concentration: 0.4 mmol, scan cycles: 2 cycles)

Potential/V	$V_{oc}$	$J_{sc}/\text{mA}\cdot\text{cm}^{-2}$	FF/%	PCE/%
1.3	0.74	15.00	58.23	6.47
1.4	0.80	15.71	68.40	8.55
1.5	0.66	0.37	14.62	0.035

**Table S3** Performances of devices based on CMPs films  
with different scan cycles  
(Concentration: 0.4 mmol, cut-off potential: 1.4 V)

Scan cycles	$V_{oc}$	$J_{sc}/\text{mA}\cdot\text{cm}^{-2}$	FF/%	PCE/%
0	0.48	16.55	52.95	4.21
1	0.74	15.24	55.93	6.31
2	0.80	16.14	70.64	8.90
3	0.63	15.64	53.09	6.48