

**Effects of Various π -Conjugated Spacers in Thiadiazole[3,4-
c]pyridine-Cored Panchromatic Organic Dyes for Dye-Sensitized
Solar Cells**

**Yong Hua,^{\$a} Jian He,^{\$b} Caishun Zhang,^c Chunjiang Qin,^d Liyuan Han,^d Jianzhang Zhao,^c
Tao Chen,^{*b} Wai-Yeung Wong,^{*a}, Wai-Kwok Wong^{*a} and Xunjin Zhu,^{*a}**

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Table S1. Photovoltaic parameters of a batch of five devices with Y4 measured under AM 1.5 G illuminations.

Devices	$J_{sc} / \text{mA} \cdot \text{cm}^{-2}$	V_{oc} / V	FF	$\eta/\%$
1	12.54	0.749	0.671	6.30
2	12.14	0.769	0.654	6.11
3	12.18	0.762	0.649	6.03
4	12.32	0.739	0.655	6.19
5	12.40	0.740	0.673	6.27
Average	12.32 ± 0.16	0.752 ± 0.013	0.660 ± 0.011	6.18 ± 0.11

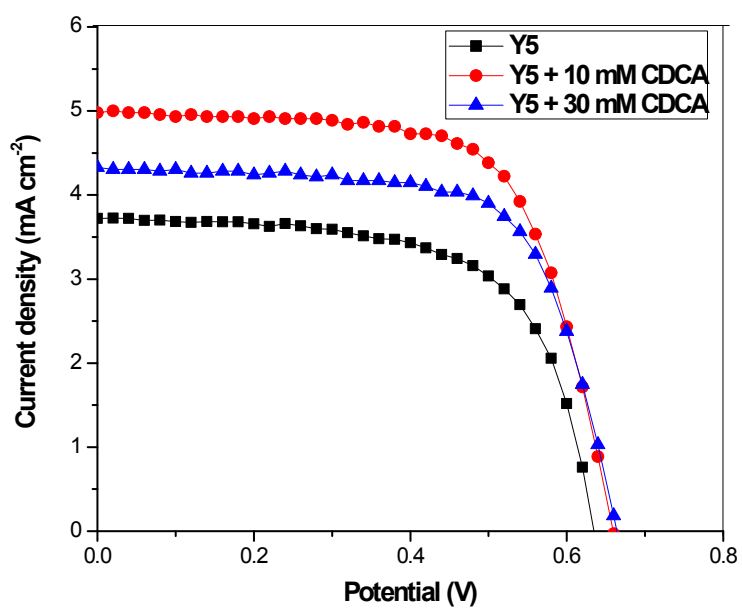


Figure S1. The J - V curves of Y5 and CDCA sensitized solar cells.

Table S2. Photovoltaic parameters of **Y5** with co-adsorbent CDCA concentrations.

Dye	$J_{sc} / \text{mA} \cdot \text{cm}^{-2}$	V_{oc} / V	FF	$\eta/\%$
Y5	3.72	0.635	0.619	1.46
Y5 + 10 mM CDCA	4.98	0.658	0.643	2.11
Y5 + 30 mM CDCA	4.33	0.664	0.658	1.89