

Electronic Supplementary Information for

Influence of the anchoring number in carbazole- based photosensitizer on the photovoltaic performance of p-type NiO dye sensitized solar cells

Ji Young Park, Bo Youn Jang, Chi Hwan Lee, Hyeong Jin Yun, Jae Hong Kim**

Department of Chemical Engineering, Yeungnam University, Gyeongsangbuk-do,
South Korea 712-749

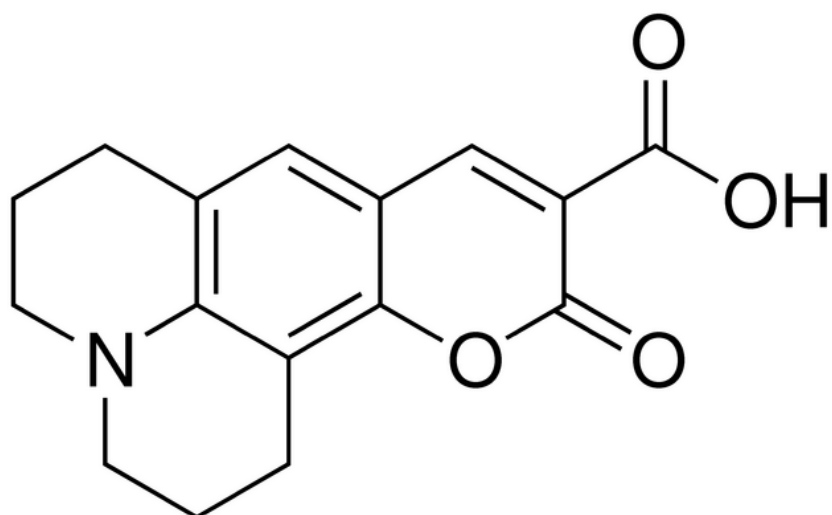


Figure S1. Molecular structure of C343

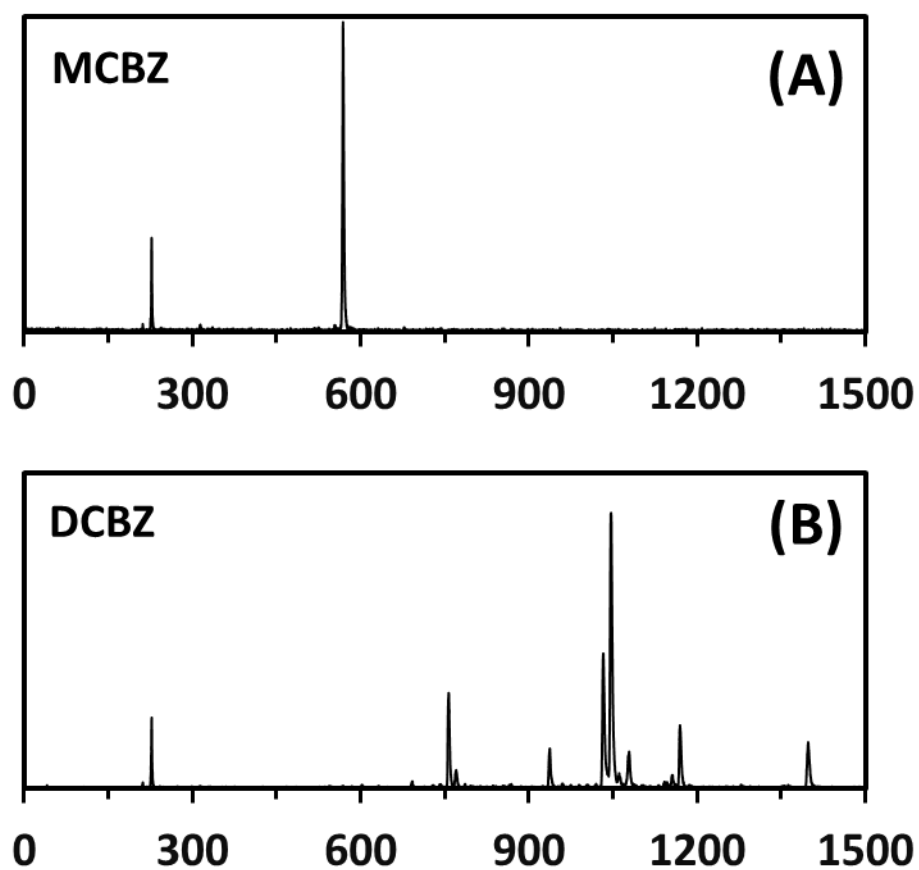


Figure S2. Mass spectra of (A) MCBZ and (B) DCBZ

Table S1. Electrochemical parameters of MCBZ and DCBZ. Their E_g (band gap) is determined from the intersection of the absorption and emission spectra in the DMF solution. The oxidation potential (E_{OX}) of the dyes are measured by cyclic voltammetry in a DMF solution.

Dye	E_g (eV)	E_{ox} (V)	E_{HOMO} (eV)	E_{LUMO} (eV)
MCBZ	2.18	0.39	-4.69	-2.51
DCBZ	2.16	0.42	-4.72	-2.56