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 , 2, 3
 ; 1 ;
 2 ; 3
 (jskim@cnu.ac.kr*)

(Dye-Sensitized Solar Cell, DSSC)

가

(Ru)

(Carotinoid)

(Quinone)

(Indigo)

Poly(ethylene glycol), PEG-

. UV-Vis spectrophotometer, NMR

가