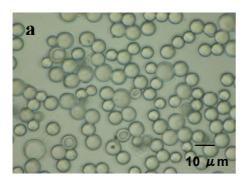
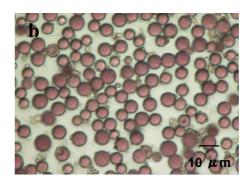
Efficient photocurrent generation by SnO₂ electrode modified electrophoretically with composite clusters of porphyrin-modified silica microparticle and fullerene

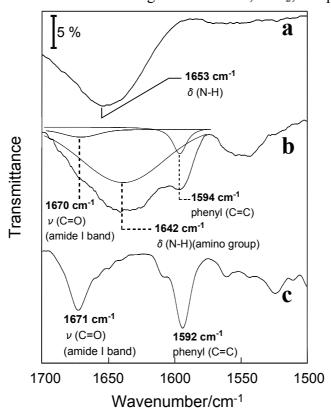
Hiroshi Imahori,**a,b Keigo Mitamura,* Tomokazu Umeyama,* Kohei Hosomizu,* Yoshihiro Matano,* Kaname Yoshida,* and Seiji Isoda*

Optical microscopic images of **2** (a) and **3** (b) measured by using VHX-200 (Keyence) (S1):





IR spectra of **2** (a), **3** (b), and **4** (c) (1500-1700 cm⁻¹) measured in KBr pellet (The spectrum of **3** in the wavenumber of 1700-1575 cm⁻¹ also shows fitted component peaks at 1670, 1642, 1594 cm⁻¹ which are assigned to -CONH, -NH₂, and phenyl groups.) (S2):

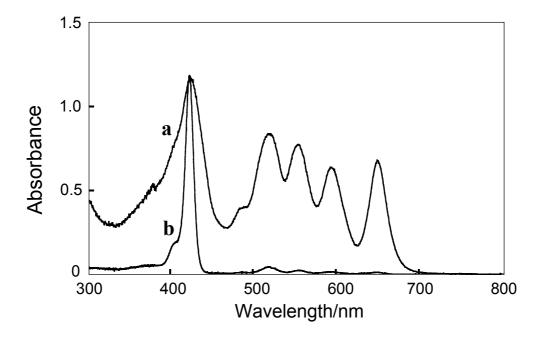


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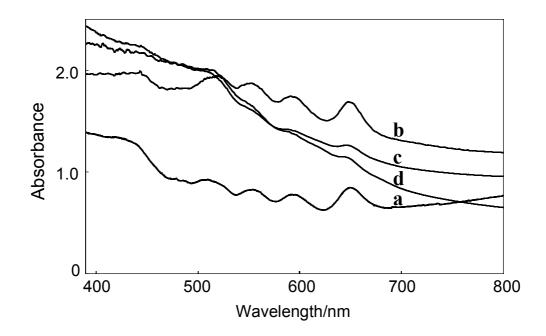
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Diffuse reflectance absorption spectrum of **3** (a) and absorption spectrum of **4** (2.55×10^{-6} M) in CHCl₃ (b) (The spectrum of **3** is normalized at the Soret band for comparison.) (S3):



Absorption spectra of ITO/SnO₂/($\mathbf{3}$ +C₆₀)_m ([C₆₀]= 0 mM (a), 0.17 mM (b), 0.33 mM (c), 0.50 mM (d) in acetonitrile/toluene=2/1; [H₂P]=0.17 mM) (The experimental error is within 5%) (S4):



SEM images of ITO/SnO₂/($3+C_{60}$)_m ([C₆₀]= 0 mM (a) and [C₆₀]= 0.50 mM (b) in acetonitrile/toluene=2/1; [H₂P]=0.17 mM) (S5):

