## **PCCP**



## CORRECTION

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## Correction: Ultrafast dye regeneration in a core-shell NiO-dye-TiO<sub>2</sub> mesoporous film

Lei Tian, <sup>a</sup> Jens Föhlinger, <sup>a</sup> Palas Baran Pati, <sup>a</sup> Zhibin Zhang, <sup>b</sup> Junzhong Lin, <sup>c</sup> Wenxing Yang, Malin Johansson, Tomas Kubart, Junliang Sun, Gerrit Boschloo, Leif Hammarström\*a and Haining Tian\*a

Correction for 'Ultrafast dye regeneration in a core-shell NiO-dye-TiO2 mesoporous film' by Lei Tian et al., Phys. Chem. Chem. Phys., 2018, 20, 36-40.

There was an error in the value of the transition energy  $(E_{0-0})$  for the PB6 dye on the electrode, which should be 1.96 eV instead of 2.14 eV.  $E_{(PB6^*/PB6^-)}$  is therefore changed to 1.03 V vs. NHE accordingly.

The following figure should be substituted for the incorrect Fig. 1:

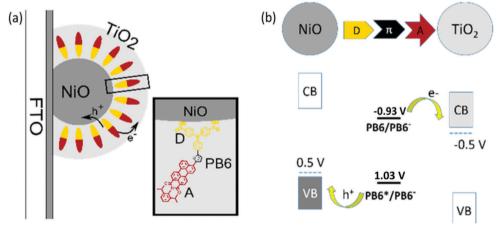


Fig. 1 (a) The proposed well-oriented mesoporous NiO-Dye-TiO2 core-shell structure and the donor-acceptor dye (PB6) reported in this work. D: electron donor part, triphenylamine (TPA); A: electron acceptor, perylene monoimide (PMI), (b) The schematic drawing of charge transfer processes of PB6 between NiO and TiO<sub>2</sub> including the electrochemical potentials vs. normal hydrogen electrode (NHE). CB: conduction band; VB: valence band;  $\pi$ : conjugated linker.

The following changes should be made accordingly on page 37, 6th paragraph: "The obtained energy alignment indicated that the hole ( $\Delta G_0 = -530 \text{ mV}$ ) and electron injection ( $\Delta G_0 = -430 \text{ mV}$ ) into the NiO valence band (VB) and the TiO<sub>2</sub> conduction band (CB), respectively, from the excited PB6 ( $E_{0-0} = 1.96 \text{ eV}$ ) were thermodynamically favorable, as indicated in Fig. 1b and Table S1 (ESI†)." Table S1 in the supporting information has been updated accordingly.

These changes do not influence the method used and the conclusions reported in this work.

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The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

<sup>&</sup>lt;sup>a</sup> Department of Chemistry-Ångström Laboratories, Uppsala University, Box 523, SE75120 Uppsala, Sweden. E-mail: haining.tian@kemi.uu.se

<sup>&</sup>lt;sup>b</sup> Department of Engineering Sciences, Uppsala University, Box 534, SE75120 Uppsala, Sweden

<sup>&</sup>lt;sup>c</sup> Department of Materials and Environmental Chemistry, Stockholm University, 106 91 Stockholm, Sweden