Erratum: Codoping titanium dioxide nanowires with tungsten and carbon for enhanced photoelectrochemical performance

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This Article contains errors in Figs 4 and 5 that were introduced during the production process.

In Fig. 4c, the y axis should have been labelled ' $\eta_{\text{transport}}$ (%)'. In addition, the figure caption for panel b should have read 'Charge transfer efficiencies' and that of panel c 'Charge transport efficiencies', instead of the converse. In Fig. 5h, the y axis should have been labelled ' η_{transfer} (%)'. In addition, the figure caption for panel g should have read 'charge transport efficiency' and that of panel h 'charge transfer efficiency', instead of the converse. Corrected versions of both figures and their legends appear below.

Figure 4 | Comparison of optical, charge transport and charge transfer properties. (a) Light absorption (plus scattering) of undoped (black), W-doped (blue), C-doped (green) and (W, C)-codoped TiO₂ NW (red) arrays grown on quartz. The integrated light absorption (plus scattering) values calculated by integrating over the wavelength are 59.5%, 60.7%, 61.1% and 64.0% for undoped, W-doped, C-doped and (W, C)-codoped TiO₂ NWs, respectively. (b) Charge transfer efficiencies. (c) Charge transport efficiencies. (d) Current-voltage curves of single NW. The inset shows the scanning electron microscopy image of single TiO₂(W, C) NW with metal (Pt) contacts at both ends. Scale bar, 1 μm.

Figure 5 | Characterization and PEC water-splitting performance of NWs with high W- and C-doping concentrations. (a) TEM and high-resolution TEM images of W/C no. 2 (W: 17.5 at.%, C: 18.3 at.% at the NW surface). Scale bar, 50 nm (TEM) and 5 nm (high-resolution TEM). (b) STEM image. Scale bar, 50 nm. (c) Concentration profiles of W and C dopants along the NW diameter in W/C no. 2. Comparison of W/C no. 1 (blue) and W/C no. 2 (red) with (d) three electrodes J - V curves (W/C no. 1, W: 10.2 at.%, C: 13.1 at.% at the NW surface). (e) IPCE, (f) light absorption (quartz substrate), (g) charge transport efficiency and (h) charge transfer efficiency. The data of undoped TiO_2 NWs (black) are added for reference.