Supporting information

Robust TiO₂/BDD heterojunction photoanodes for determination of chemical oxygen demand in wastewaters

Figure S1. Schematic diagram of the three-electrode photoelectrochemical bulk cell for photoelectrochemical characterisation of the TiO₂/BDD electrode
Figure S2. Schematic diagram of the design of the thin-layer photoelectrochemical cell.
Figure S3. PeCOD analytical principle: Typical photocurrent responses of a blank solution containing 2.0M NaNO₃ ($i_{\text{blank}}$, solid line) and a sample containing 2.0M NaNO₃ and organic compounds solution ($i_{\text{total}}$, dash line). The shaded area indicates the charge originated from the complete oxidation of organic compounds in the thin-layer cell.
Figure S4. SEM images of original BDD after the aqua regia washing process (a), and sintered BDD electrodes after 700°C calcination in air (b).