

Supporting Information

Modulation of Photochemical Activity of Titania Nanosheets via Heteroassembly with Reduced Graphene Oxide. Enhancement of Photoinduced Hydrophilic Conversion Properties

Nobuyuki Sakai,[†] Kei Kamanaka,^{†,‡} and Takayoshi Sasaki^{†,‡,*}

[†] International Center for Materials Nanoarchitectonics, National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan

[‡] Graduate School of Pure and Applied Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba, Ibaraki 305-8571, Japan

* Corresponding author. E-mail: sasaki.takayoshi@nims.go.jp

Supplementary information

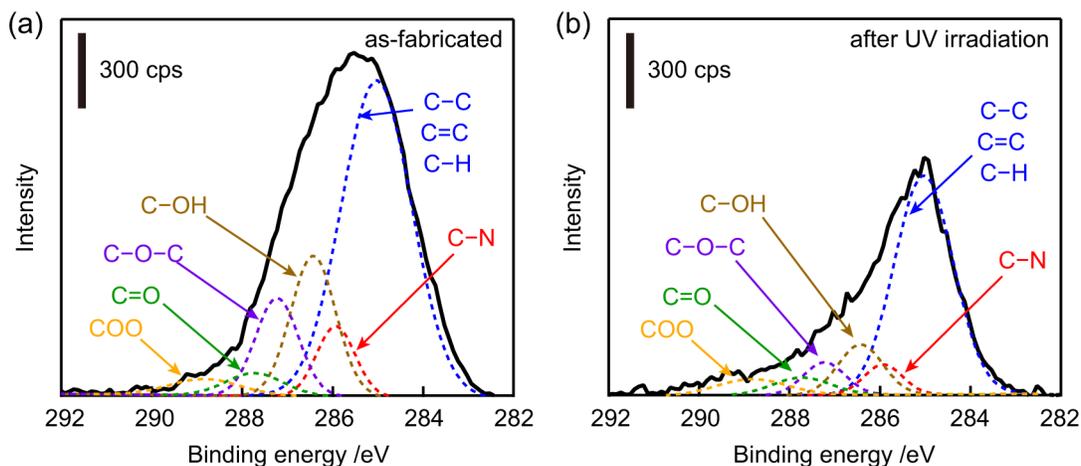


Figure S1. X-ray photoelectron spectroscopy (XPS) data for C 1s peak for the film of (PDDA/GO/PDDA/Ti_{0.87}O₂^{0.52-})₅ (a) before and (b) after UV irradiation for 48 h. An XPS system (Theta Probe, Thermo Scientific) was employed to record the spectra.

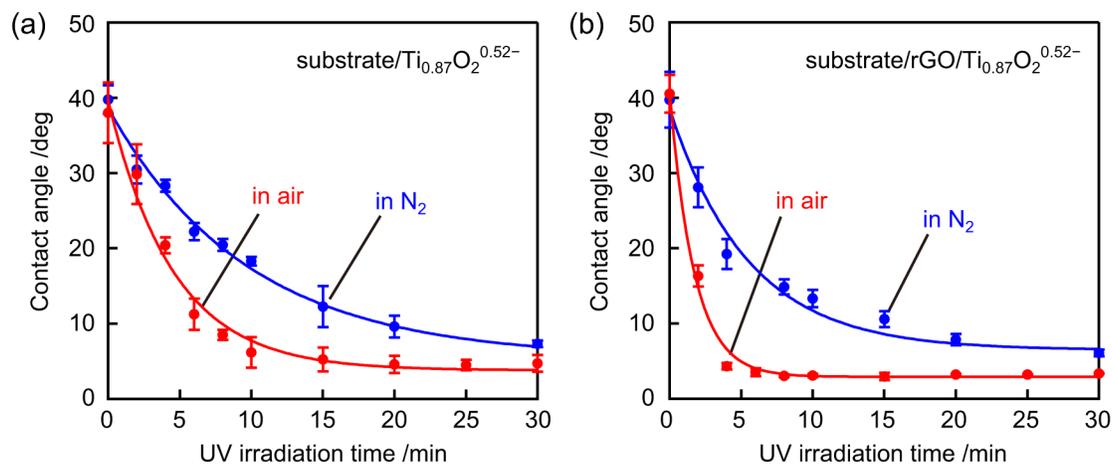


Figure S2. Changes in contact angle for (a) substrate/Ti_{0.87}O₂^{0.52-} and (b) substrate/rGO/Ti_{0.87}O₂^{0.52-} under UV irradiation (30 mW/cm²) in ambient air (red circles) or a humid N₂ atmosphere (blue circles).