

Supporting Information for

Efficient Photoelectrochemical Water Splitting by g-C₃N₄/TiO₂

Nanotube Array Heterostructures

Changhai Liu¹, Fang Wang¹, Jin Zhang¹, Ke Wang¹, Yangyang Qiu¹, Qian Liang²,
Zhidong Chen^{2, *}

¹School of Materials Science & Engineering, Jiangsu Collaborative Innovation Center of Photovoltaic Science and Engineering, Changzhou University, Changzhou, Jiangsu 213164, People's Republic of China

²School of Petrochemical Engineering, Changzhou University, Changzhou, Jiangsu 213164, People's Republic of China

*Corresponding author. E-mail: zdchen@cczu.edu.cn (Zhidong Chen)

Tel.: +86 0519-86330232; Fax.: +86 0519-86330232

Supplementary Figures

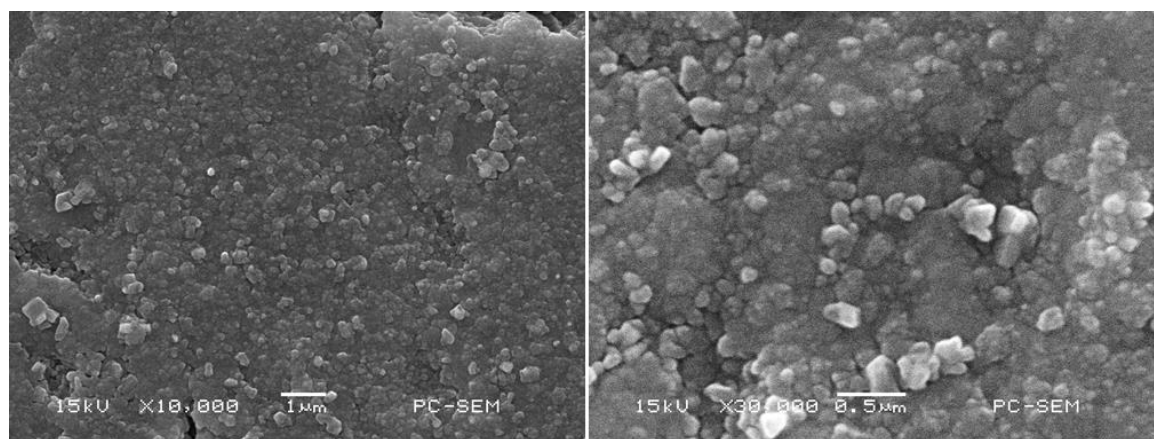


Fig. S1 SEM images of g-C₃N₄ grown on amorphous TiO₂

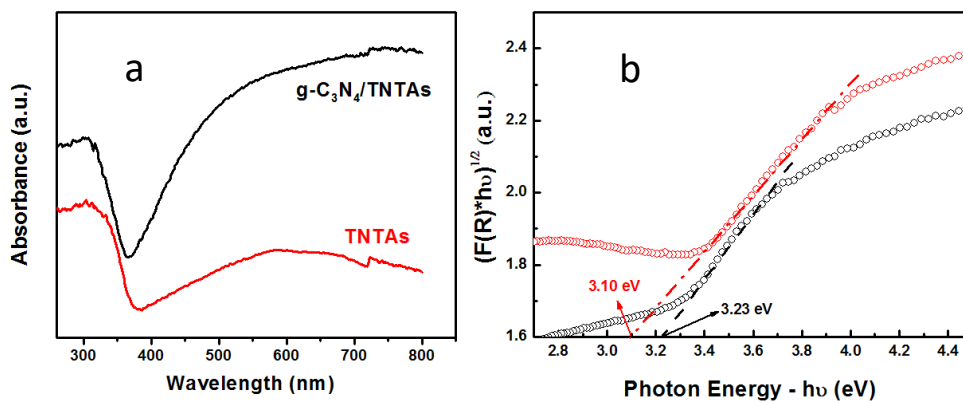


Fig. S2 a UV-vis diffuse reflectance spectra of pristine TNTAs and g-C₃N₄/TNTAs, b corresponding Tauc plots

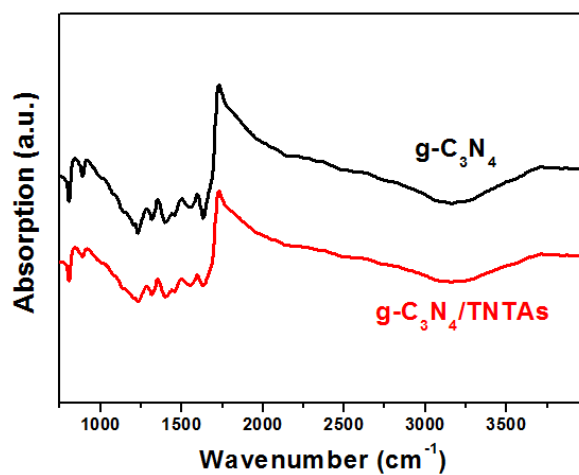


Fig. S3 FTIR spectra of pristine g-C₃N₄ and g-C₃N₄/TNTAs

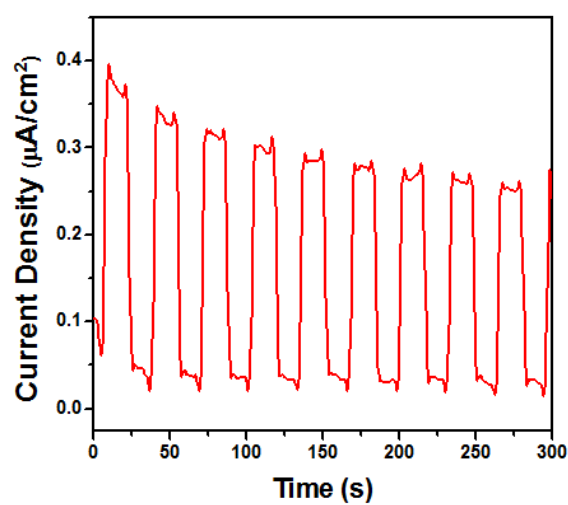


Fig. S4 Current-potential curves of pure g-C₃N₄ under light irradiation (100 mW cm⁻²)