

Supporting Information

Bacteriorhodopsin/TiO₂ Nanotube Arrays Hybrid System for Enhanced Photoelectrochemical Water Splitting

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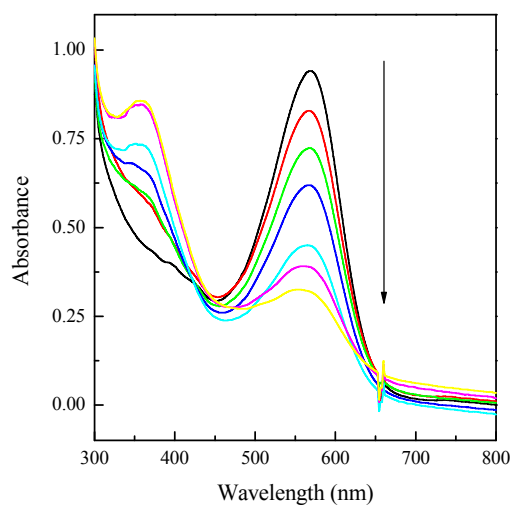


Fig. S1: Absorption spectra of bleached bR at different stages of regeneration with *all-trans* retinal

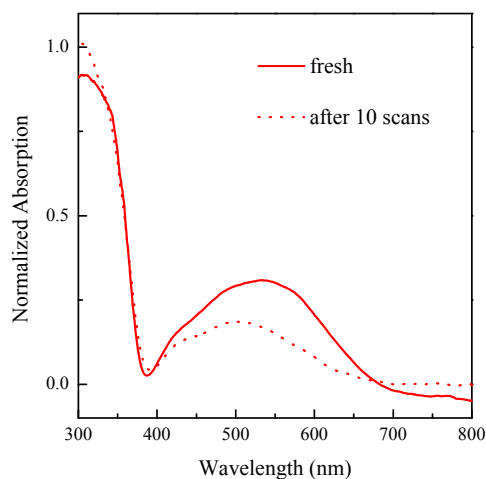


Fig. S2: Absorption spectra of bR/TiO₂ photoanode, prepared without linker, before and after 10 photoelectrochemical scans.

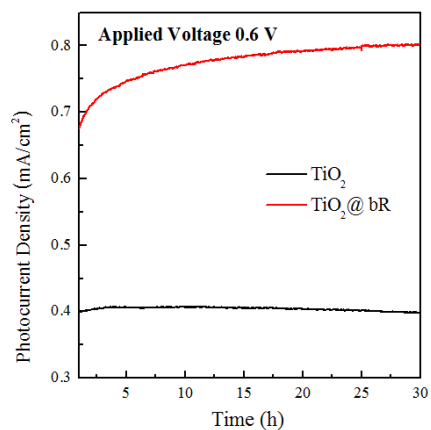


Fig. S3: Steady-state photocurrent measurements at a constant bias of 0.6 V_{Ag/AgCl} in pH=7 solution under AM 1.5 G illumination (100 mW/cm²) for pure and bR/TiO₂ photoanodes.

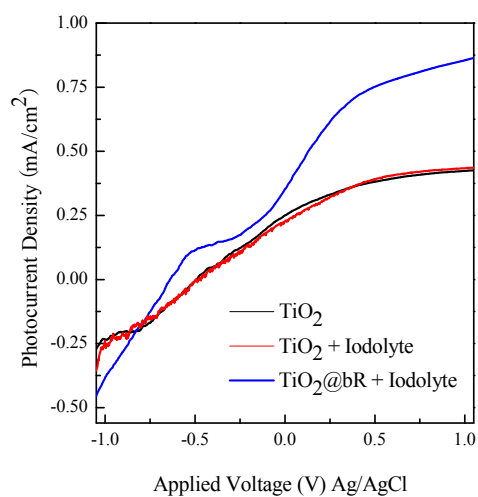


Fig. S4: Photocurrent density versus potential (I-V) in pH=7 buffer under AM 1.5 G illumination.