

Supplementary Information

Enhancing Hot Electron Generation and Injection in the Near Infrared via Rational Design and Controlled Synthesis of TiO₂-gold Nanostructures

Supriya Atta,^a Fuat E. Celik^b and Laura Fabris^{*c}

^a Rutgers University, Department of Chemistry and Chemical Biology, 123 Bevier Road, Piscataway NJ 08854.

^b Rutgers University, Department of Chemical and Biochemical Engineering, 98 Brett Road, Piscataway NJ 08854.

^c Rutgers University, Department of Materials Science and Engineering, 607 Taylor Road, Piscataway NJ 08854.

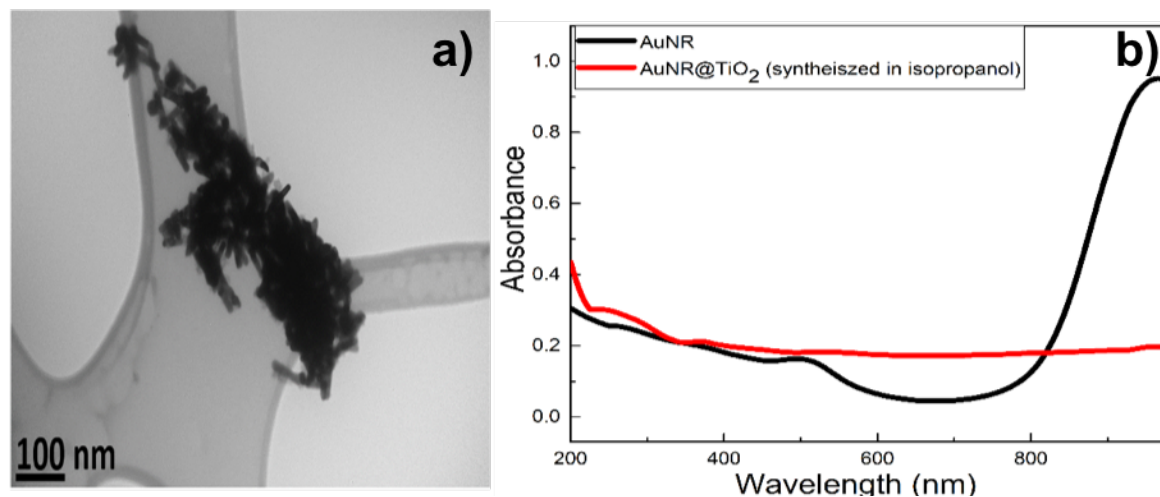


Figure S1. a) TEM image of TiO₂ coated gold nanorods synthesized in isopropanol medium where the gold nanorods were aggregated. b) UV-Vis spectrum shows that the longitudinal plasmon band of gold nanorods at around 980 nm was disappeared when the reaction was carried out in isopropanol medium.