

Electronic Supplementary Information (ESI)

Size-dependence of ultrafast charge dynamics in monodisperse Au nanoparticles supported on TiO₂ colloidal spheres

Ali Al-Otaify,^a Marina A. Leontiadou,^{*a} Flavia V. E. dos Reis,^b Tatiana C. Damato,^b Pedro H. C. Camargo,^b and David J. Binks^a

^a School of Physics and Astronomy & Photon Science Institute,
University of Manchester, Oxford Road, Manchester, M13 9PL, UK.

E-mail: marina.leontiadou@manchester.ac.uk; Fax: +44(0)1612751001; Tel: +44(0)1612754089

^b Departamento de Química Fundamental, Instituto de Química, Universidade de São Paulo, São Paulo 05508-000, Brazil.

1. The fractional transmittance changes, $\Delta T(t)/T$, for samples TiO₂-Au1 and TiO₂-Au3

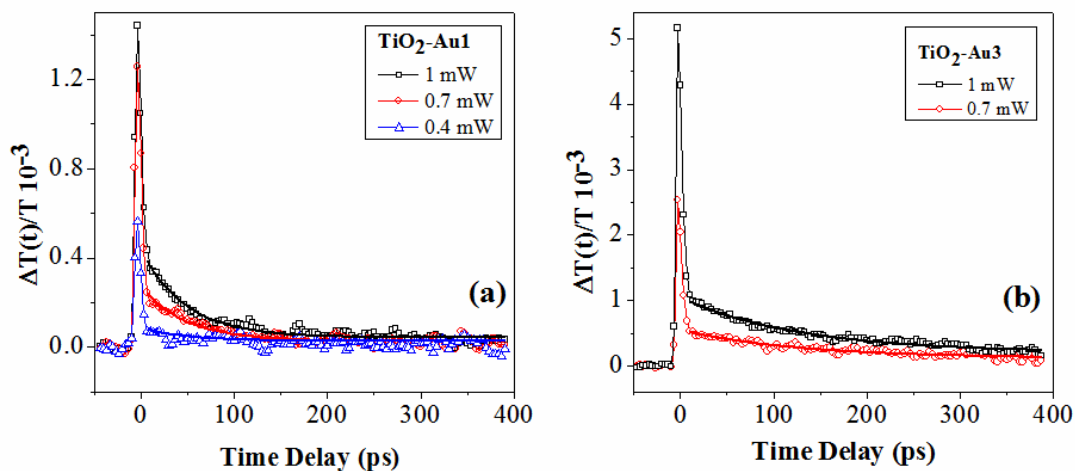


Figure S1. Transmittance transients at 530 nm when induced by different pump powers of 370 nm for (a) TiO₂-Au1 and (b) TiO₂-Au3 samples. Solid lines are the global fit to the transients.