Supporting Information

The equivalent particle diameters distribution is homogeneous.

Figure S1 The equivalent particle diameters distribution of spherical nano-TiO$_2$
(a: 104.5nm, b: 122.3nm, c: 139.6 nm, d: 154.7 nm, e: 185.9 nm)
Figure S2 The equivalent particle diameters distribution of cubic nano-TiO$_2$.
(a: 55.4 nm, b: 70.9 nm, c: 84.6 nm, d: 99.5 nm, e: 123.4 nm)

Figure S3 The equivalent particle diameters distribution of octahedral nano-TiO$_2$.
(a: 41.1 nm, b: 80.8 nm, c: 90.4 nm, d: 101.6 nm, e: 119.5 nm)