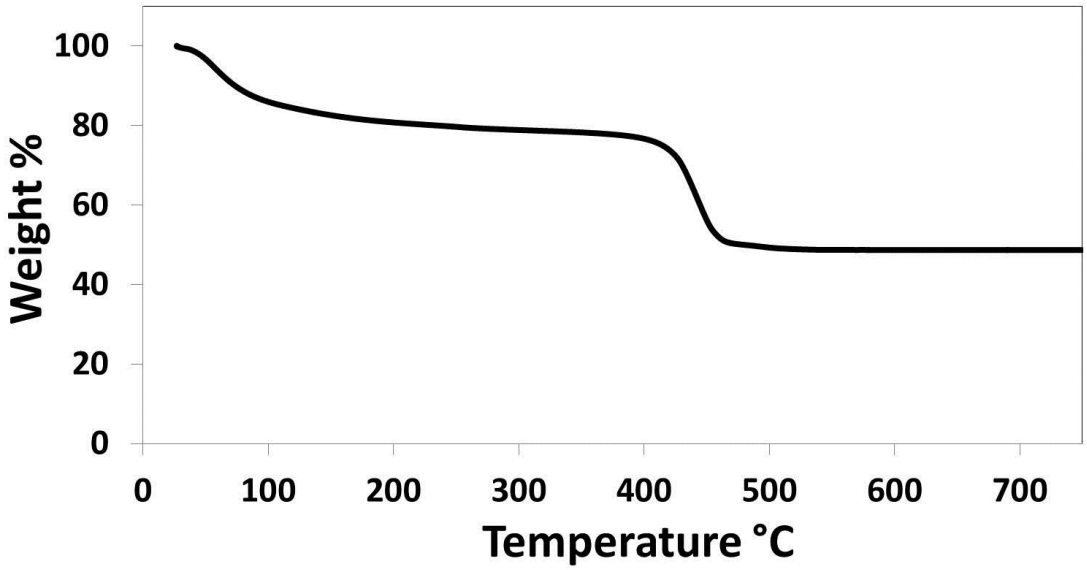
Supplementary Information

TG profile of precursor fibers



SI Fig1 TG profile of PS/TiO_2 precursor fibers

SI Table 1 Comparison of the photo degradation rate constants of varied titania nanostructures with the commercial TiO_2 powder P25. Aeroxide® P25 (Evonik Degussa, GmbH).

TiO2	Catalyst Conc	Initial MB Conc	Reaction condition	Rate constant	Source
Nanofiber	100mg/L	10mg/L	160W Hg Lamp	0.007 min^{-1}	This work
NW@MT	100mg/L	10mg/L	160W Hg Lamp	0.016 min^{-1}	This work
Tubes	100mg/L	10mg/L	160W Hg Lamp	0.024 min^{-1}	This work
Porous Tubes	100mg/L	10mg/L	160W Hg Lamp	0.029 min^{-1}	This work
P25 Degussa	240mg/L	25mg/L	400W Hg Lamp	0.015 min^{-1}	1
P25 Degussa	300mg/L	10mg/L	8W UV Lamp	0.008 min^{-1}	2
P25 Degussa	100mg/L	32mg/L	75 W Hg Lamp	0.012 min^{-1}	3

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