Supplementary material

Table S1. Summary of k_{app} and normalized k_{app} results.

Samples	kapp (min-1)	Normalized k _{app} (min ⁻¹ . m ⁻²)
P25	2.96×10^{-2}	6.29×10^{-4}
$\{010\}$ -TiO ₂	2.33×10^{-2}	7.28×10^{-4}

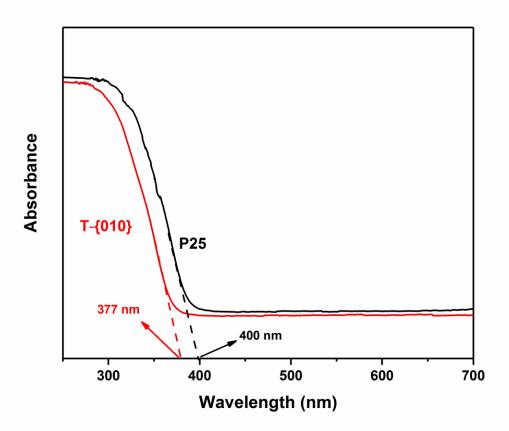


Figure S1. UV-Vis absorption spectra of P25 and T-{010}.

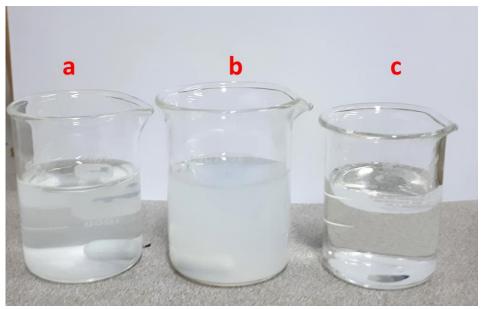


Figure S2. Images of suspension of (a) T-{010}, (b) P25 and (c) D. I. water.

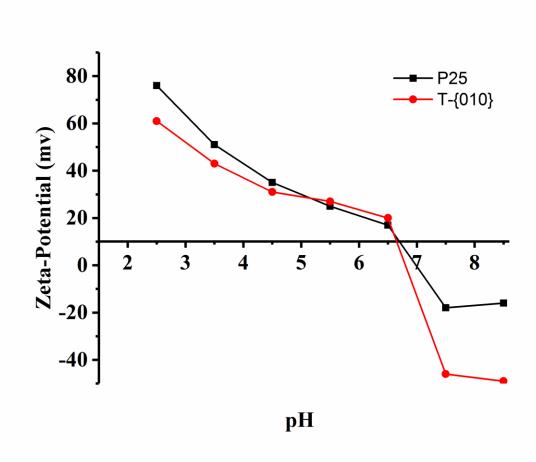


Figure S3. Zeta-potential of T-{010} and P25.

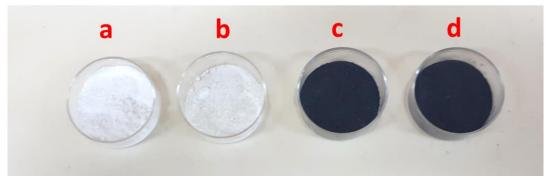


Figure S4. Images of (a) P25, (b) T-{010}, (c) BP25 and (d) BT-{010}.

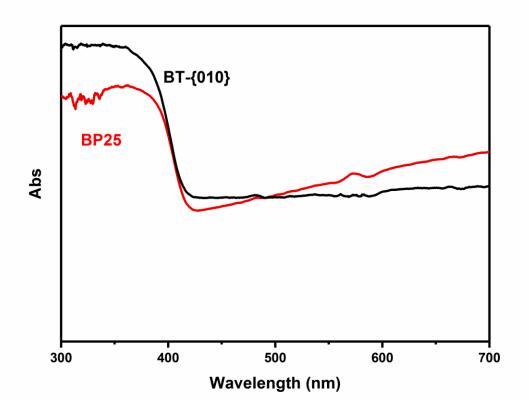


Figure S5. The diffuse reflectance UV-Vis spectra of colored TiO₂

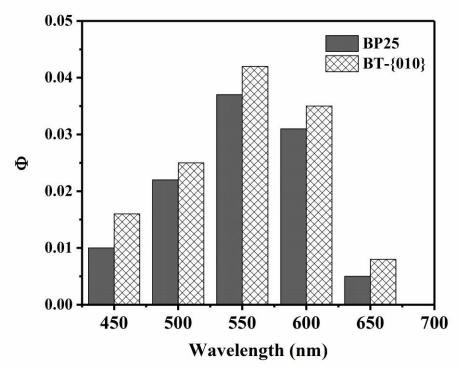


Figure S6. Wavelength-dependent apparent quantum yield for the photocatalytic degradation of ACE.

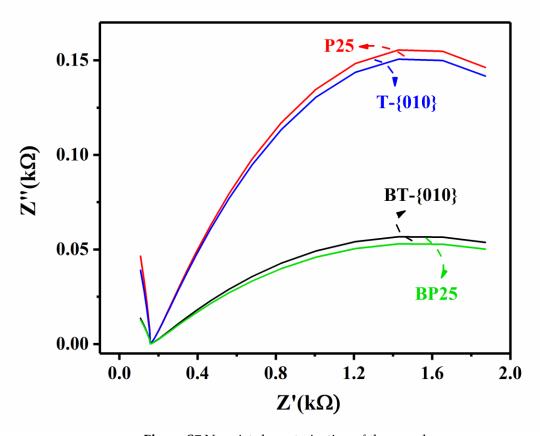


Figure S7 Nyquist characterization of the samples.