Supplementary Material (ESI) for Chemical Communications

Towards Tunable and Switchable Water Adhesion on TiO_2 Nanotube Film with Patterned Wettability

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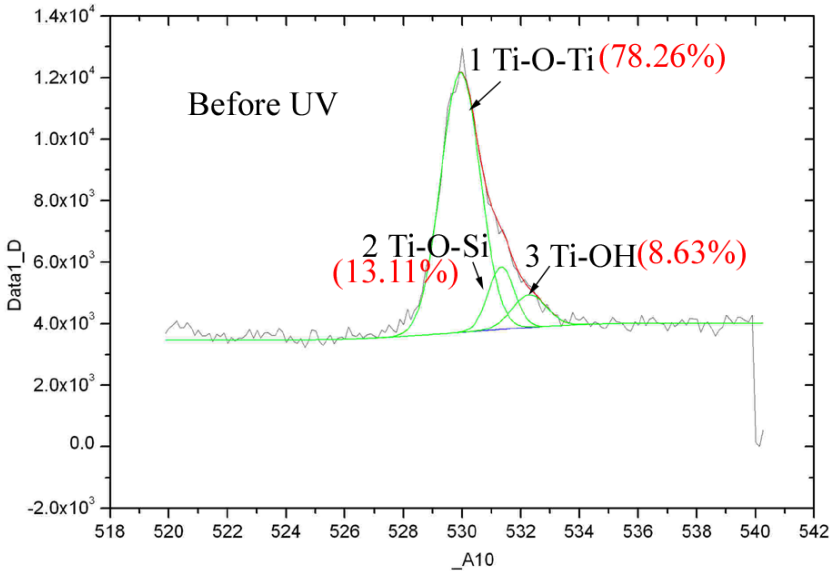
Electronic Supplementary Information

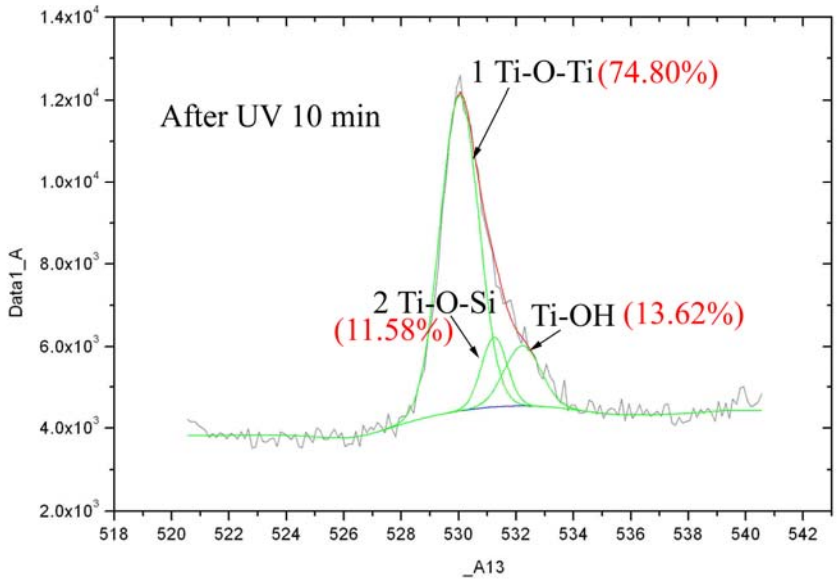
Figure S1



Fitting Results

Peak #	Peak Type	AreaFitT	FWHM	MaxHeight	CenterGrvty	AreaFitTP
1	Gaussian	10475.12066	1.57446	8477.88484	529.71193	78.26287
2	Gaussian	1754.13633	1.04549	2039.21696	531.10776	13.1057
3	Gaussian	1155.27752	1.37221	1057.89205	532.05585	8.63144
		13384.5345				

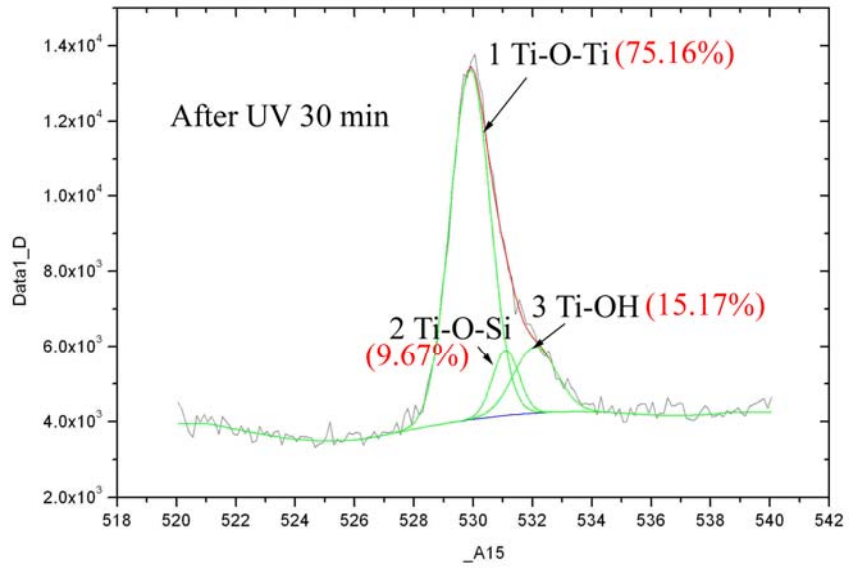
Figure S2



Fitting Results

Peak #	Peak Type	AreaFitT	FWHM	MaxHeight	CenterGrvty	AreaFitTP
1	Gaussian	9534.96832	1.57353	7721.1105	530.02627	74.79888
2	Gaussian	1476.08622	1.03735	1727.57963	531.23886	11.57944
3	Gaussian	1736.42053	1.47353	1491.82484	532.22241	13.62168
		12747.47507				

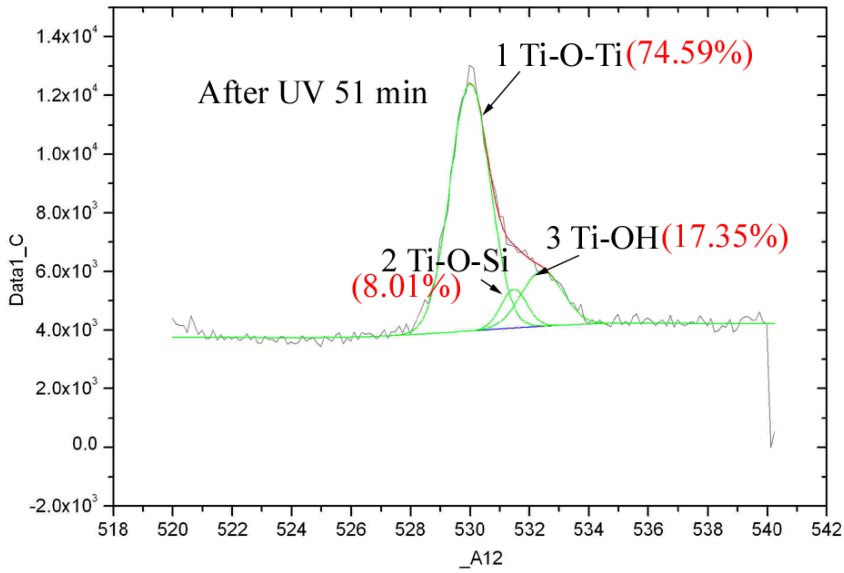
Figure S3



Fitting Results

Peak #	Peak Type	AreaFitT	FWHM	MaxHeight	CenterGrvty	AreaFitTP
1	Gaussian	11520.64511	1.57242	9335.00208	529.89729	75.16094
2	Gaussian	1482.47492	1.03512	1738.27634	531.09944	9.6717
3	Gaussian	2324.84872	1.68741	1766.95649	532.08351	15.16736
		15327.96874				

Figure S4



Fitting Results

Peak #	Peak Type	AreaFitT	FWHM	MaxHeight	CenterGrvty	AreaFitTP
1	Gaussian	10460.32826	1.5768	8454.55028	529.76827	74.59222
2	Gaussian	1129.72596	1.02835	1332.16492	531.24494	8.05604
3	Gaussian	2433.29518	1.64536	1892.29957	532.18903	17.35174
		14023.34941				

XPS analysis of the superhydrophobic TiO_2 (O1s) before and after UV treatment for different time from 0 to 51 min. The data and the fitting results showed that the content of hydroxyl group increased with the increase of UV treatment time.