

Supplementary Material

Preparation of mesoporous SiO₂/Bi₂O₃/TiO₂ superhydrophilic thin films and their surface self-cleaning properties

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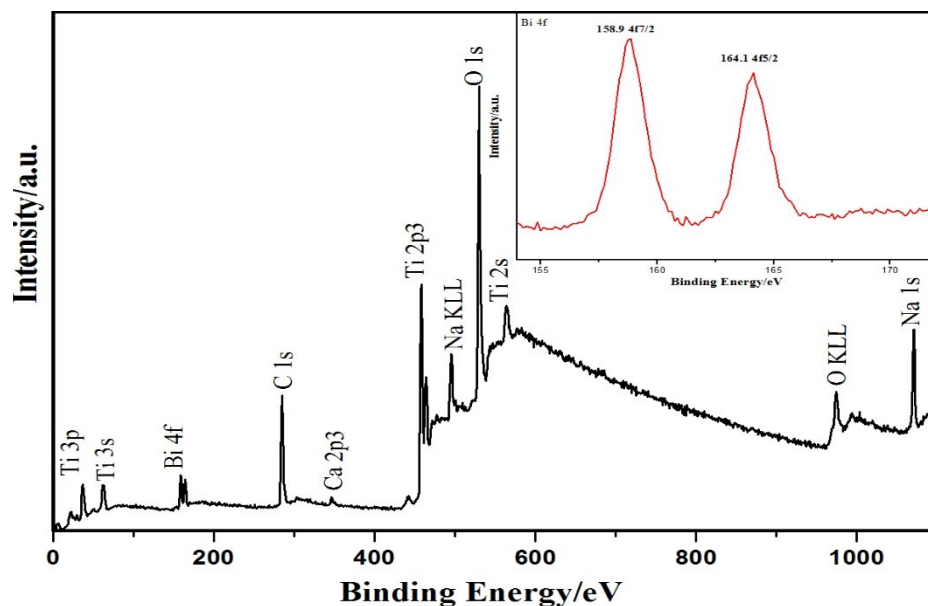


Fig. S1 XPS spectra of 5%Bi₂O₃-TiO₂ thin films (the inset is the XPS spectra of Bi 4f)

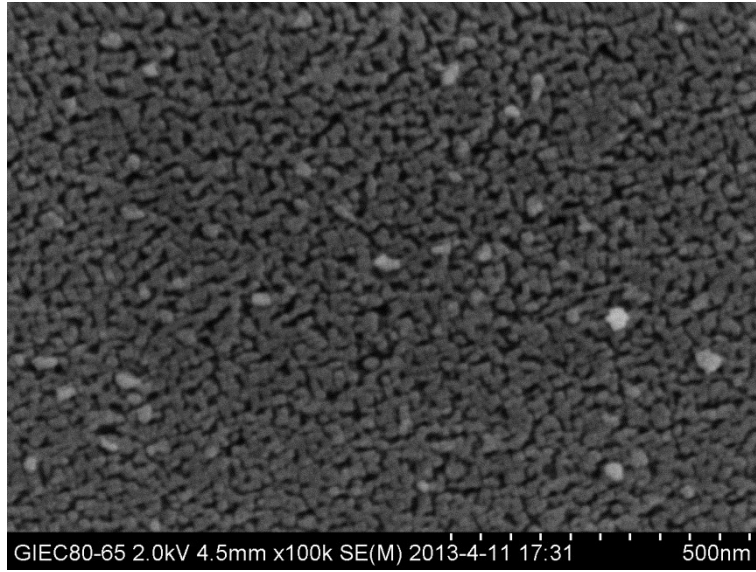


Fig. S2 SEM image of T/B

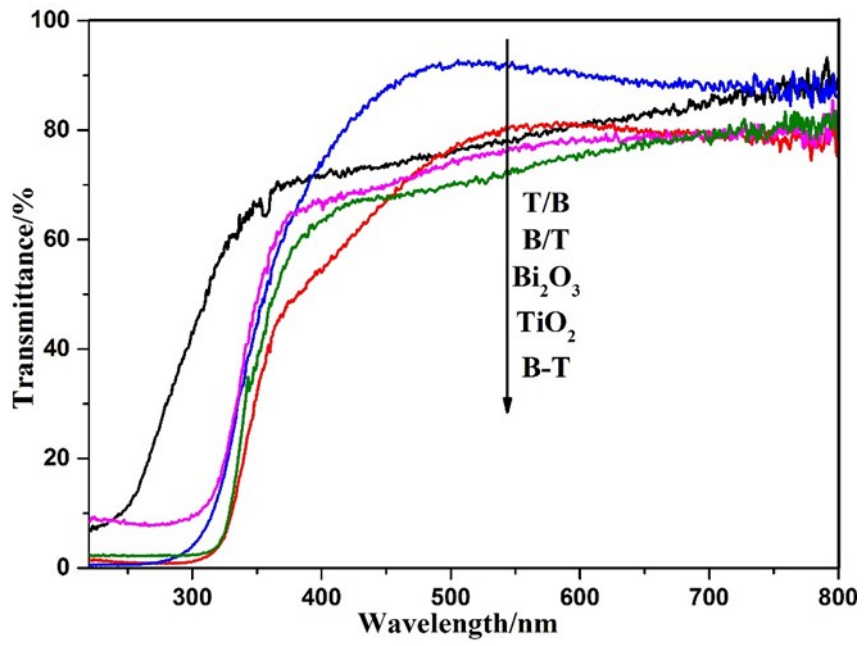


Fig. S3 UV-Vis transmittance spectra of the multilayered thin films

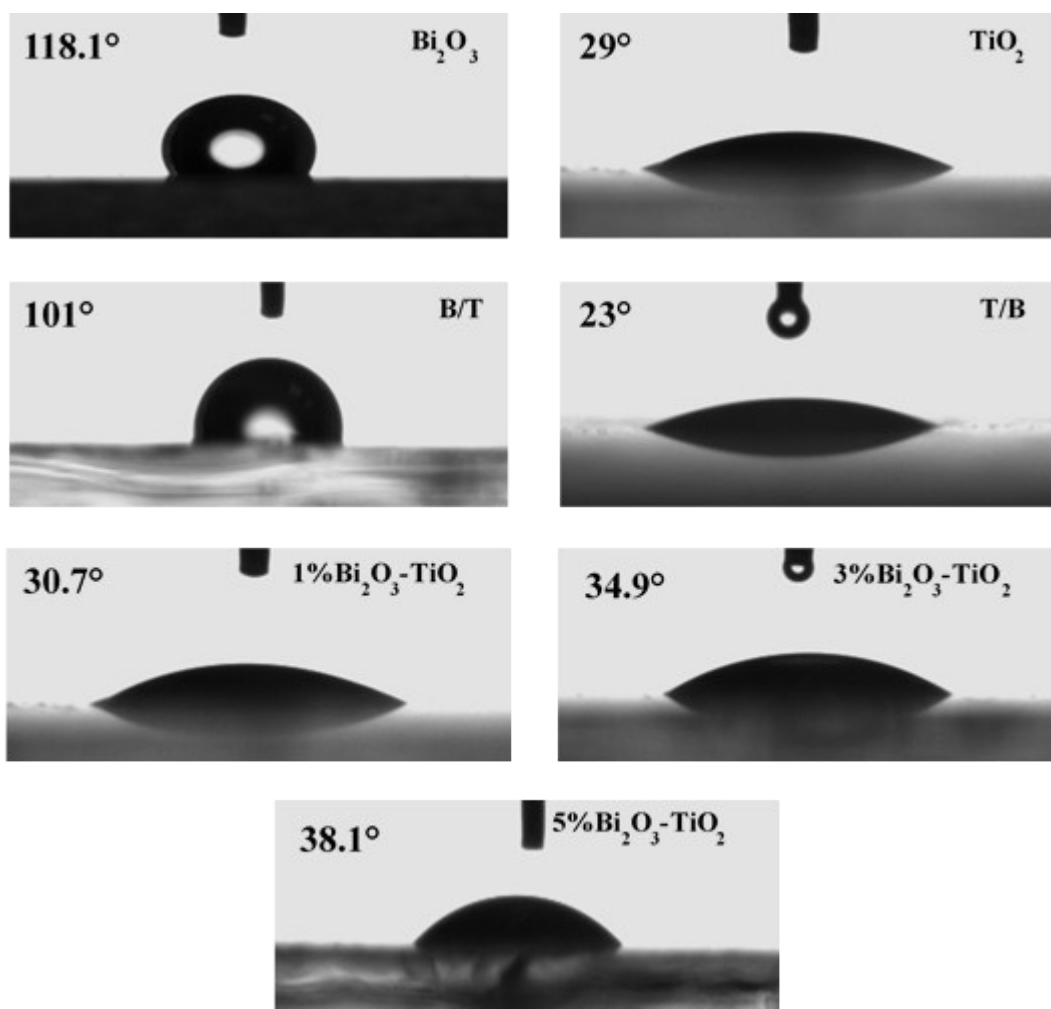


Fig. S4 The images of contact angles of a water droplet on thin films in the dark

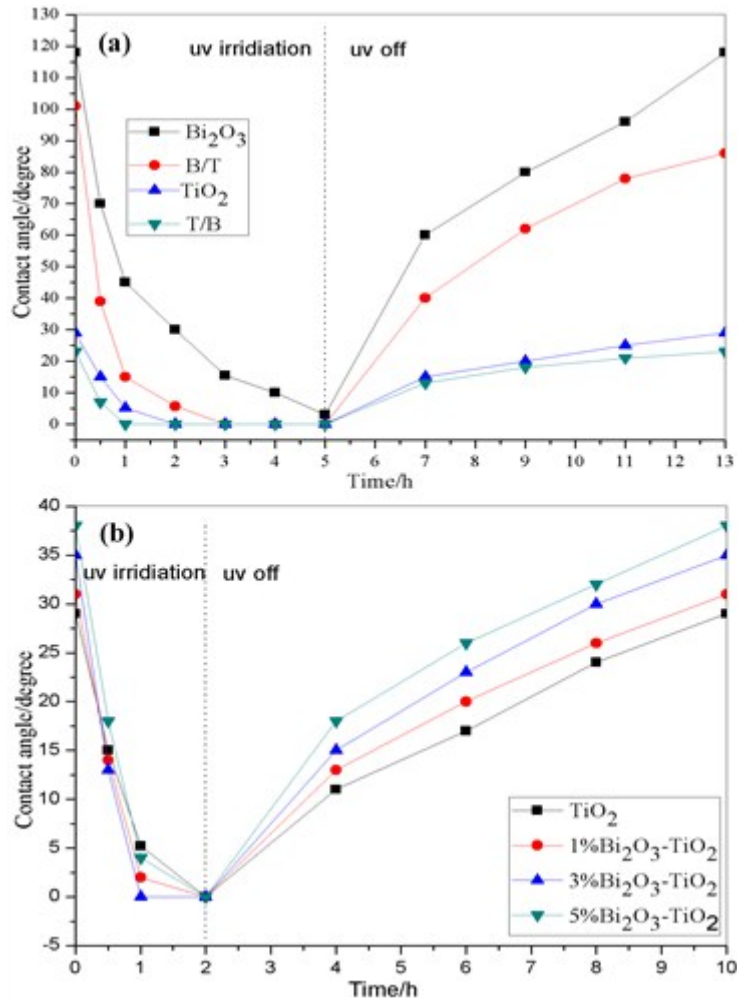


Fig. S5 Changes in the contact angle of a water droplet on the thin films with the UV irradiation time

Table S1 Photocatalytic activity of the thin films with different layers for degradation of methyl orange under UV irradiation

Upper layer Degradation rate Under layer	B(1)	B(3)	B(6)
	T(1)	36%	38%
T(3)	39%	43%	41%
T(6)	37%	40%	39%

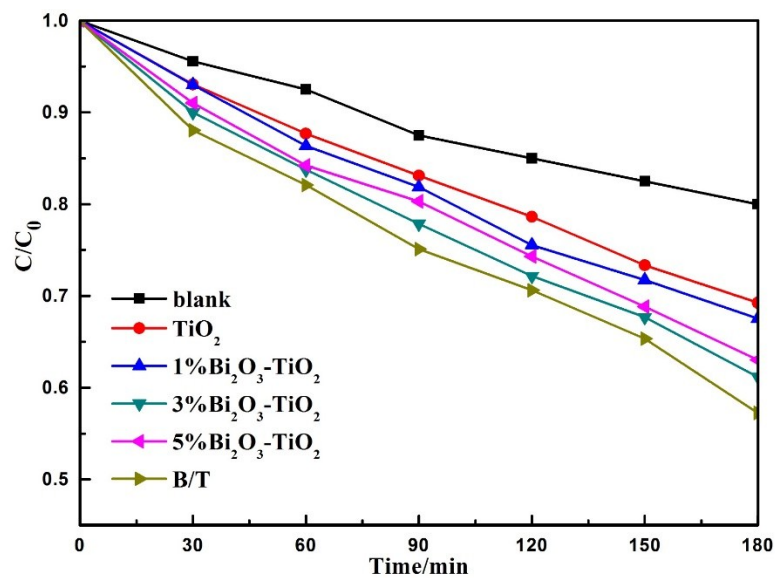


Fig. S6 Photocatalytic activity of thin films for degradation of methyl orange under UV irradiation.