A Novel TiO_2-Cuttlebone Photocatalyst for Highly Efficient Catalytic Degradation of Tetracycline Hydrochloride

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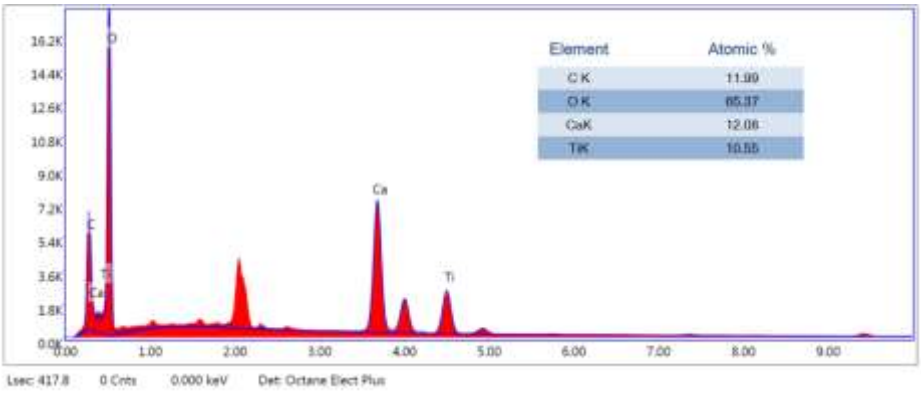

Figure.S1 The element mapping spectrum.

Table S1. The comparison of efficiency of TC degradation in pure water by different photocatalysts

Sapmle	Light source	Content	TC concentration	Degradation Time (min)	Degradation efficiency (%)	References
TCb	300 W Xe lamp (with a standard AM 1.5 filter)	0.5 g/L	5 mg/L	5	96.4	This work
TCb	300 W Xe lamp (with a standard AM 1.5 filter)	0.5 g/L	30 mg/L	30	92.0	This work
AP-TCb	natural light	0.087 g/L	5 mg/L	5	98.3	This work
TE	300 W Xe lamp (with a standard AM 1.5 filter)	1 g/L	50 mg/L	30	92.0	[29]
40%TS-300	300 W Xe lamp (with a standard AM 1.5 filter)	0.5 g/L	50 mg/L	30	94.0	[19]
TiO_2-450	300 W Xe lamp (λ > 400 nm)	0.15 g/L	10 mg/L	50	77.3	[34]
Bi_2WO_6-P25	300 W Xe lamp (λ > 420 nm)	0.1 g/L	10 mg/L	90	55.0	[35]
BiOBr/TiO_2	a Xenon lamp (PCX50B, China (400nm<λ<780 nm))	0.2 g/L	20 mg/L	120	88.0	[36]
Bi_2WO_6/TiO_2	a self-assembled light source (visible light, LED, 50 W, $\lambda \geq 420$ nm)	0.3 g/L	50 mg/L	20	About 78.2	[37]
Cu_2O–TiO_2	300 W Xe lamp	0.3 g/L	50 mg/L	60	91	[38]

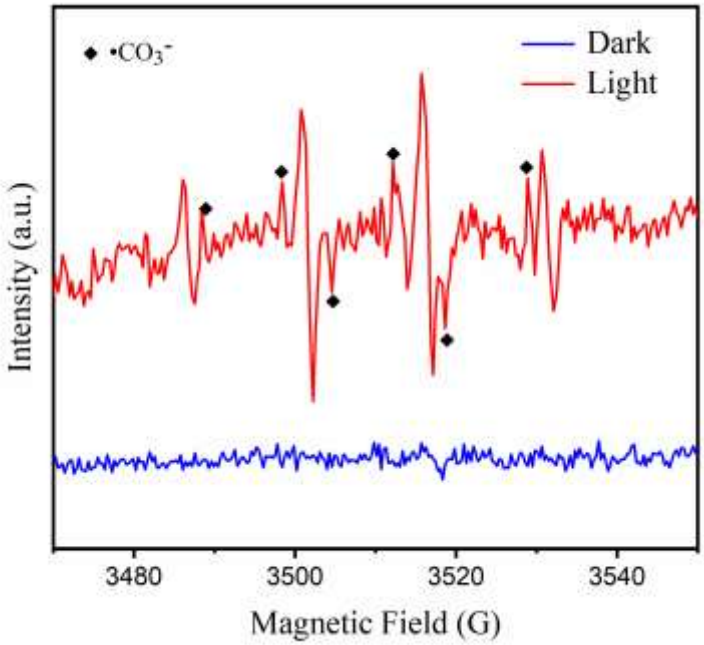

Figure.S2 ESR signals of the DMPO-•CO_3^- in TCb photochemical system.

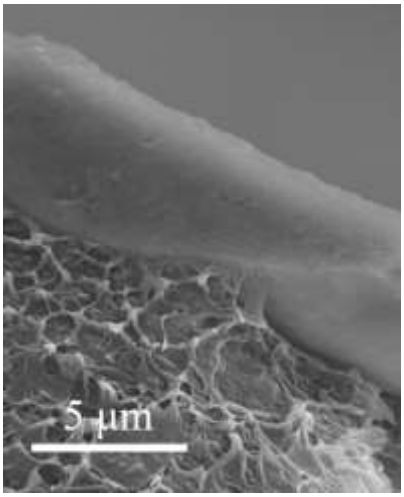

Figure S3. SEM image of the cross section of AP-TCb

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