Electronic supplementary information (ESI) for New Journal of Chemistry.

Supporting Information (SI)

Construction of titanium-based nanomaterials with coral-like HTiOF₃ template and their photocatalytic performance

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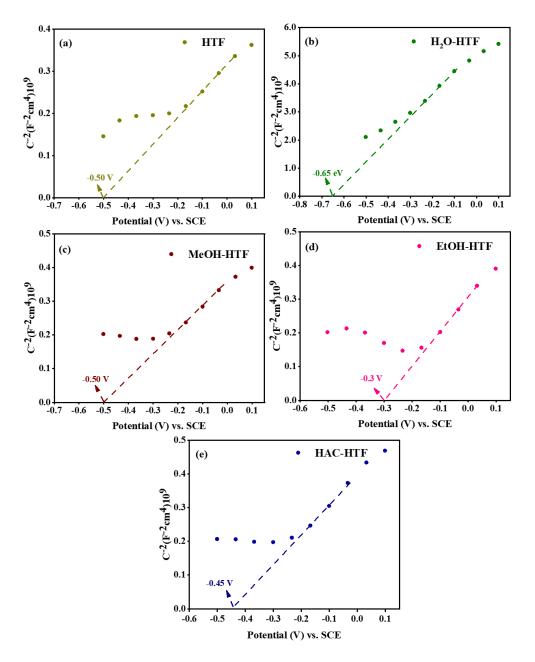


Fig. S1 Mott-Schottky plots of HTF, H₂O-HTF, MeOH-HTF, EtOH-HTF, and HAC-HTF at a frequency of 1000 Hz

Table S1 The values of CB,	VB and their bandgar	energies of the samples

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Sample	CB (V vs. NHE)	VB (V vs. NHE)	E _g (eV)
HTF	-0.46	2.69	3.15
H ₂ O-HTF	-0.61	2.50	3.11
MeOH-HTF	-0.46	2.63	3.09
EtOH-HTF	-0.26	2.88	3.14
HAC-HTF	-0.41	2.73	3.14
KOH-HTF	-0.29	2.87	3.16

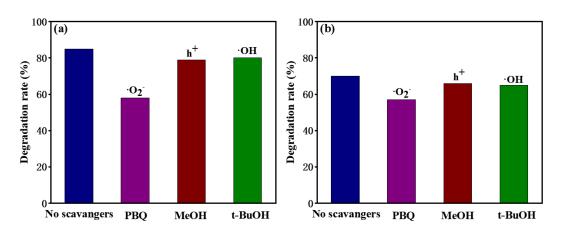


Fig. S2 Effect of different scavengers on the degradation of OTC efficiency over EtOH-HTF and HAC-HTF



Fig. S3 The photocatalytic mechanism of OTC degradation by EtOH-HTF

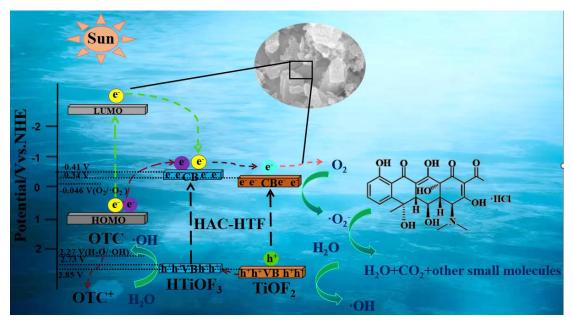


Fig. S4 The photocatalytic mechanism of OTC degradation by HAC-HTF