

Supporting informations

Tungsten catalysts for visible light driven photocatalytic degradation and hydrogen production

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S.1. Preliminary photocatalytic experiment

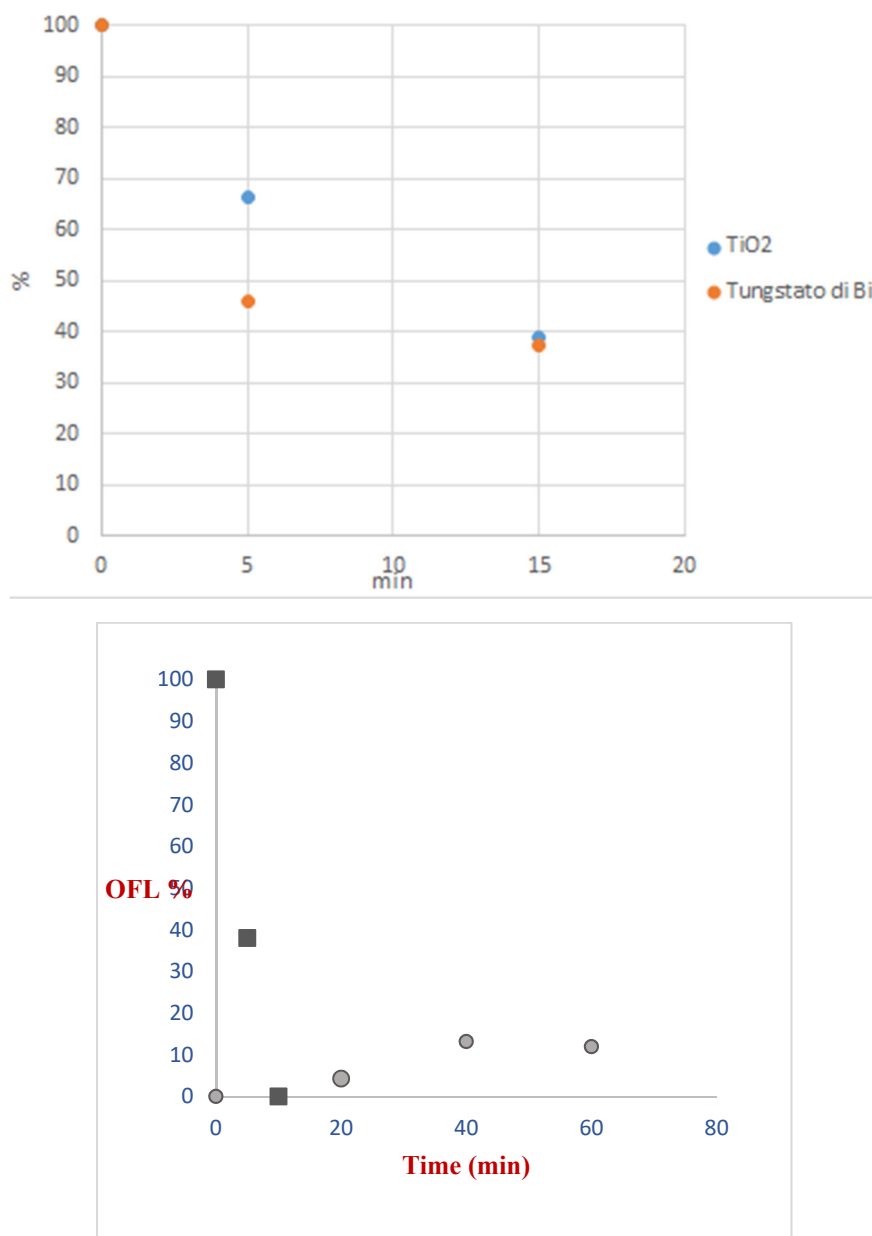


Figure S1. Preliminary photocatalytic experiment (50 $\mu\text{g L}^{-1}$ OFL, 0.5 mg L⁻¹ BT), and OFL adsorption in the dark (50 $\mu\text{g L}^{-1}$ OFL, 0.5 mg L⁻¹ BT).

S.2. Scanning Electron Microscopic images OF TBADT

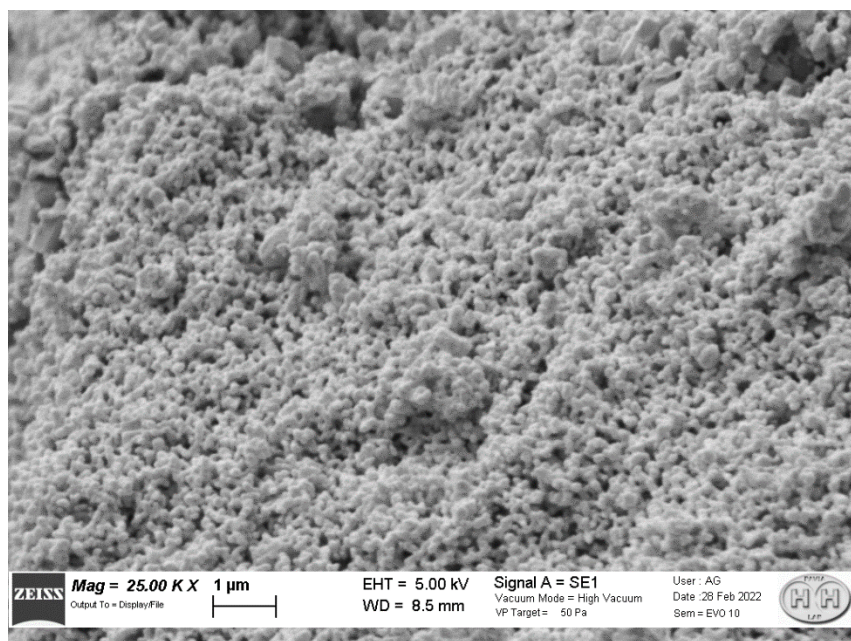


Figure S2. Scanning Electron Microscopic image of catalyst TBADT.

S.3. Scanning Electron Microscopic images of BT

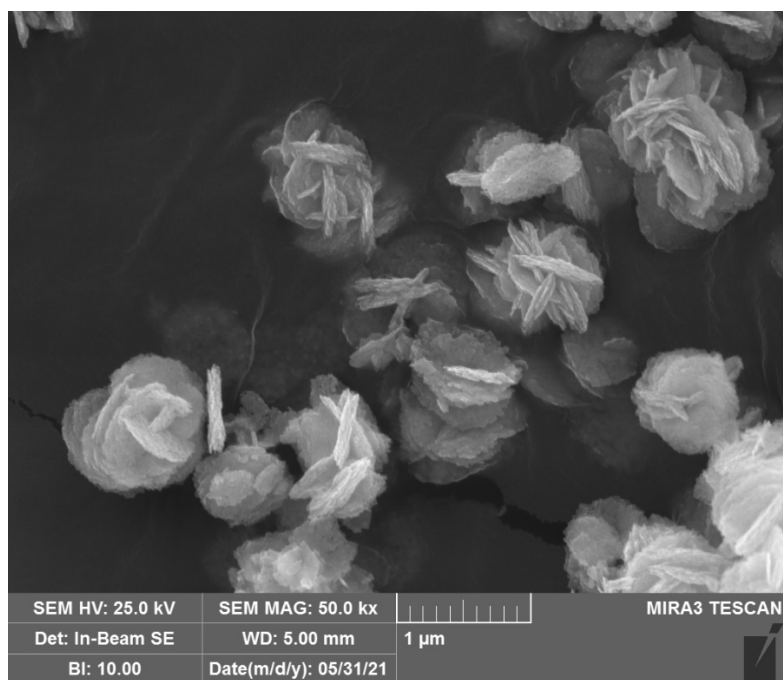


Figure S3. Scanning Electron Microscopic image of catalyst TBADT.

S.4. FT-IR of TBADT catalyst

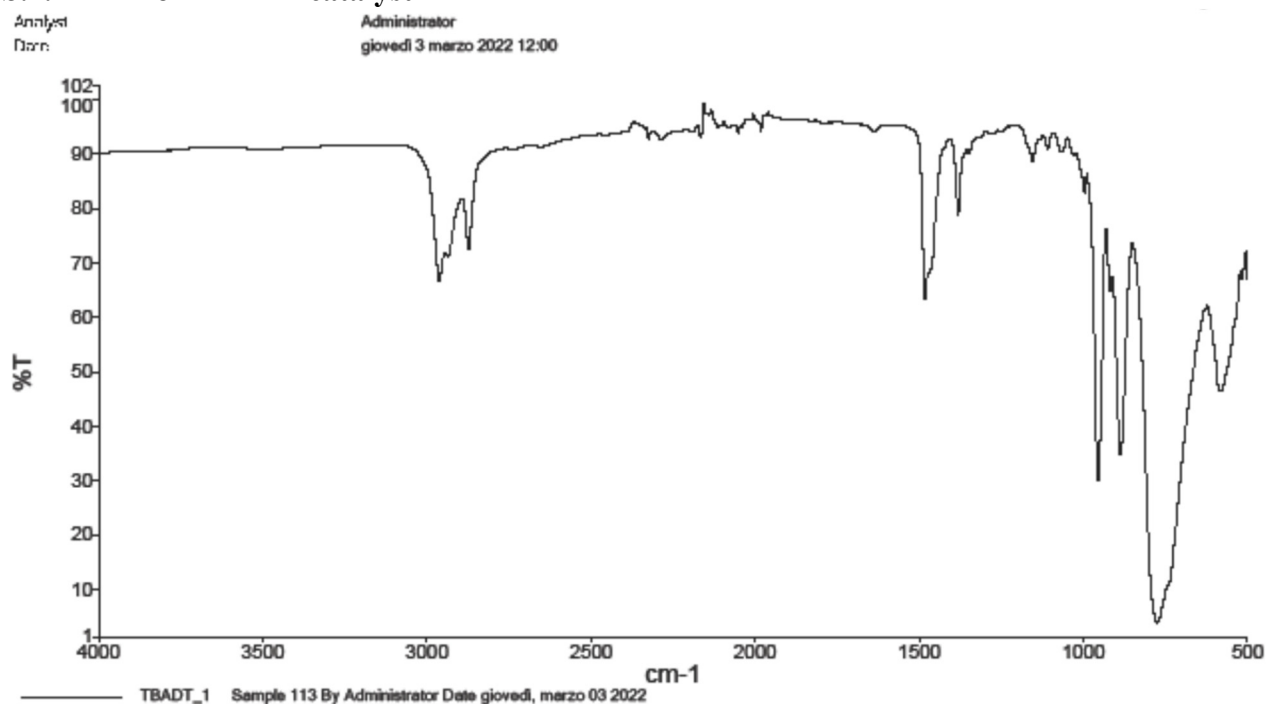


Figure S4. FT-IR of catalyst TBADT.

S.5. FT-IR of BT catalyst

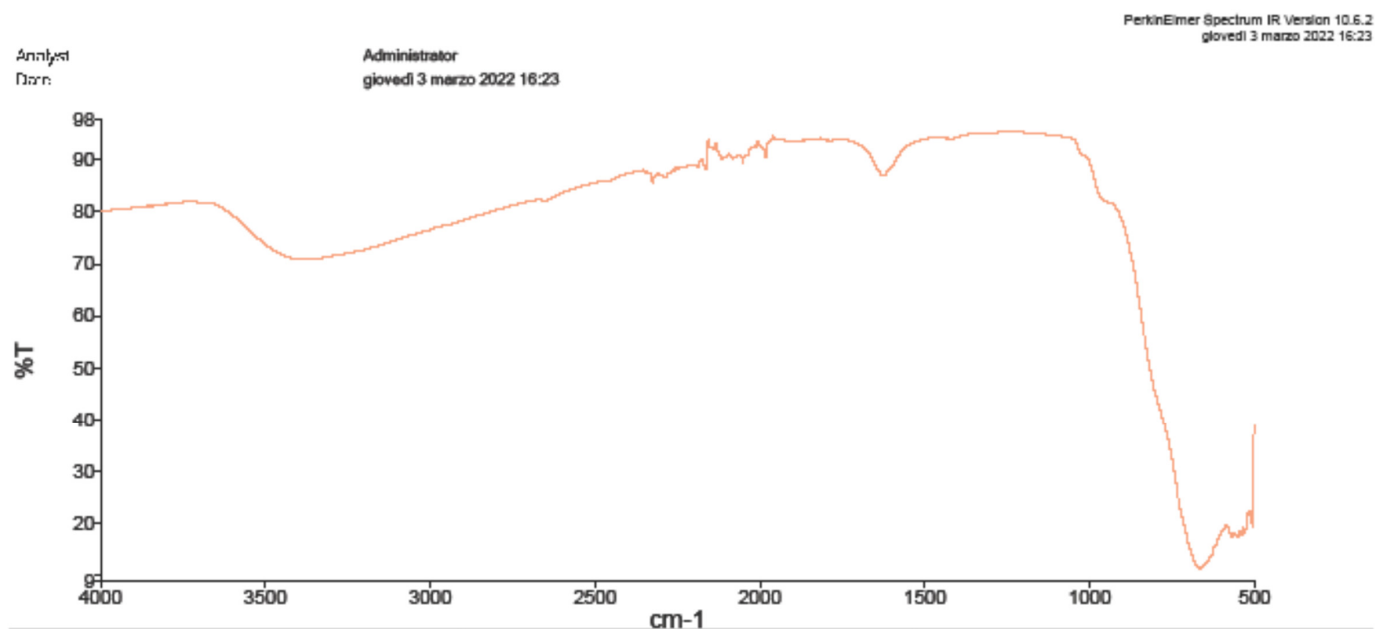


Figure S5. FT-IR of catalyst BT.

S.6. Tauc plot for TBADT catalyst

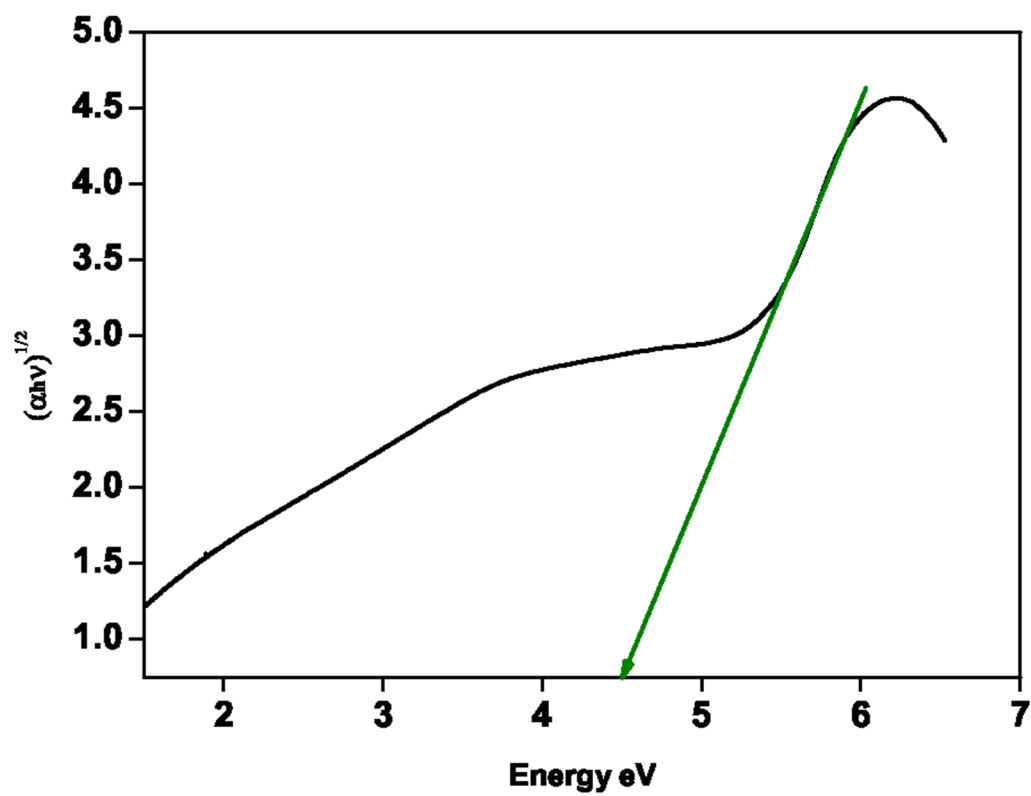


Figure S6. Tauc plot for TBADT catalyst for the bang-gap calculation

S.7. Tauc plot for BT catalyst

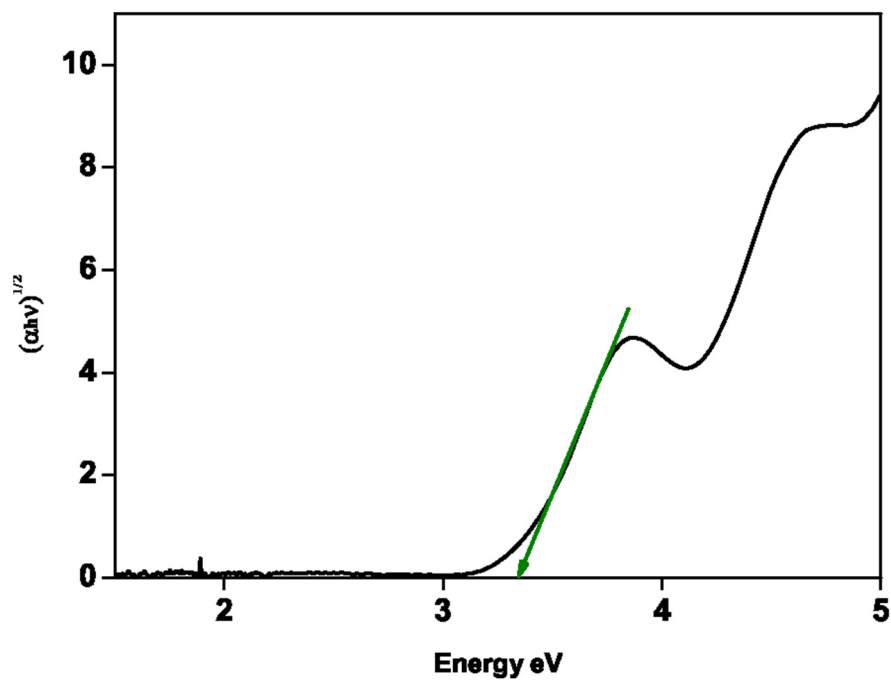
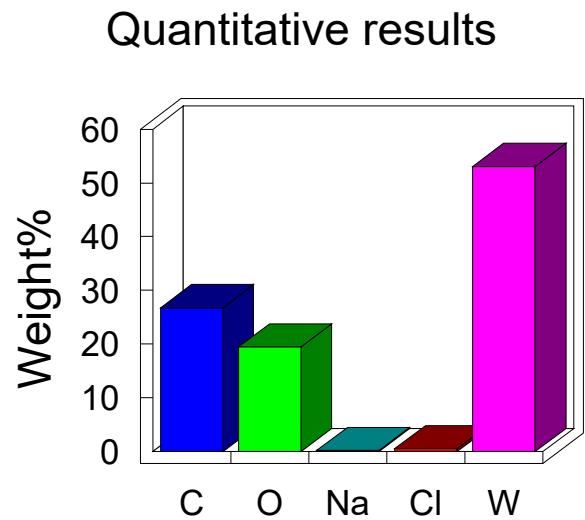


Figure S7. Tauc plot for BT catalyst for the bang-gap calculation.

S.8. EDX for TBADT catalyst

Element	App	Intensity	Weight%	Weight%	Atomic%
	Conc.	Corrn.		Sigma	
C K	21.76	0.6240	26.77	0.85	59.32
O K	16.14	0.6366	19.47	0.62	32.40
Na K	0.25	1.0418	0.19	0.11	0.22
Cl K	0.41	0.6193	0.51	0.10	0.38
W M	61.36	0.8877	53.07	0.76	7.68
Totals			100.00		



Standard :

C CaCO3 1-Jun-1999 12:00 AM
O SiO2 1-Jun-1999 12:00 AM
Na Albite 1-Jun-1999 12:00 AM
Cl KCl 1-Jun-1999 12:00 AM
W W 1-Jun-1999 12:00 AM

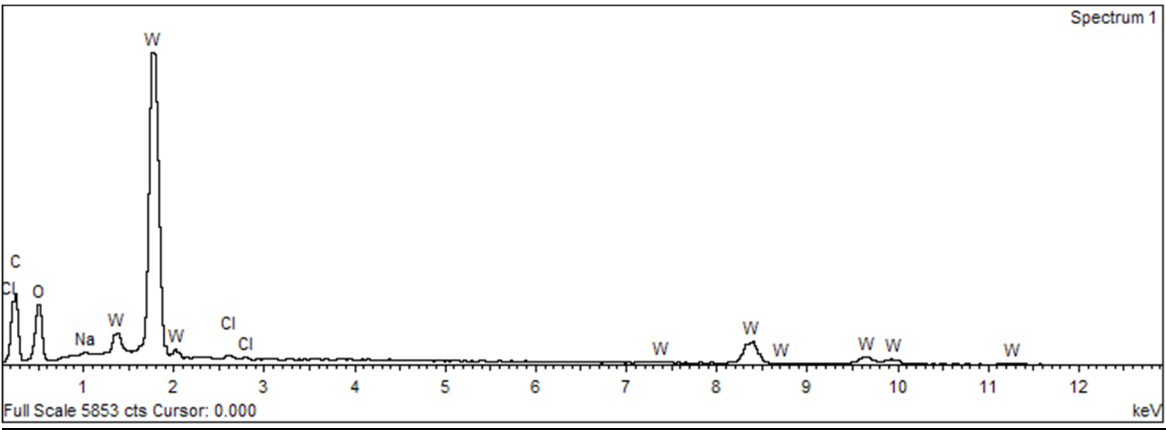


Figure S8. EDX of catalyst TBADT