

## *Supplementary Materials*

### **Visible-light-driven BiOBr-TiO<sub>2</sub>-attapulgite photocatalyst with excellent photocatalytic activity for multiple xanthates**

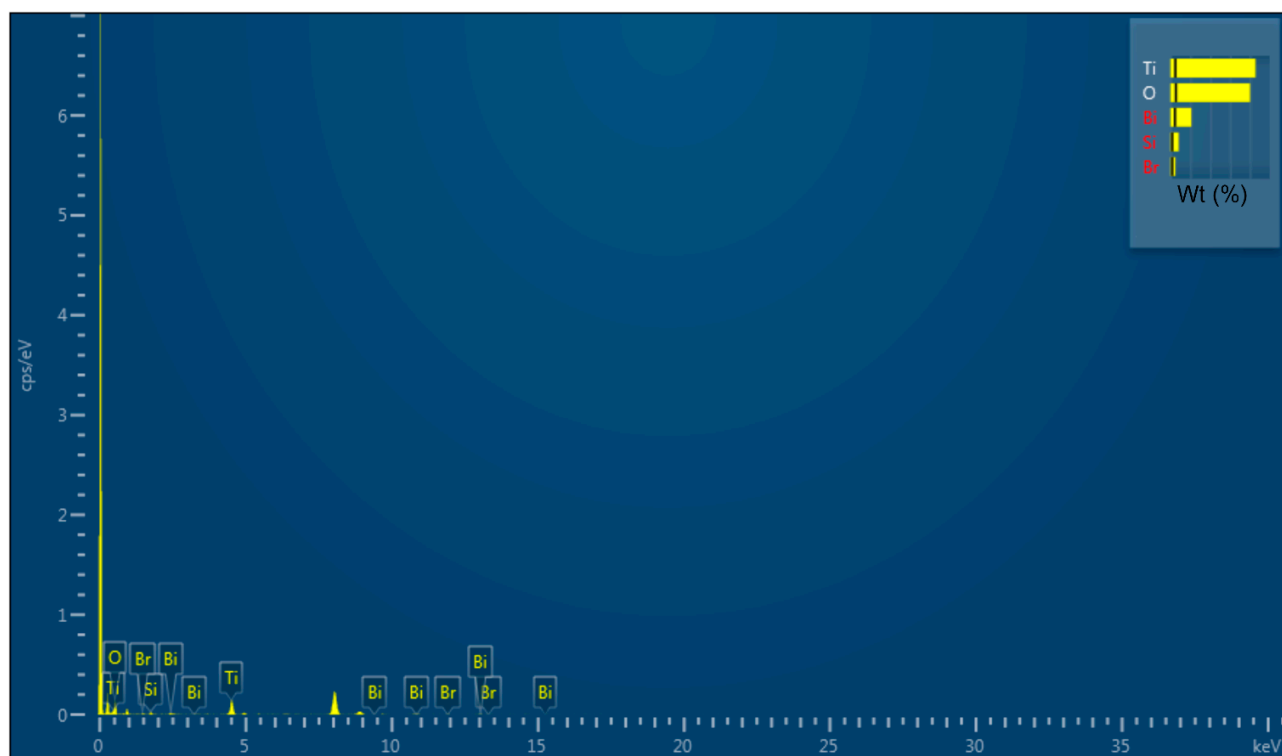
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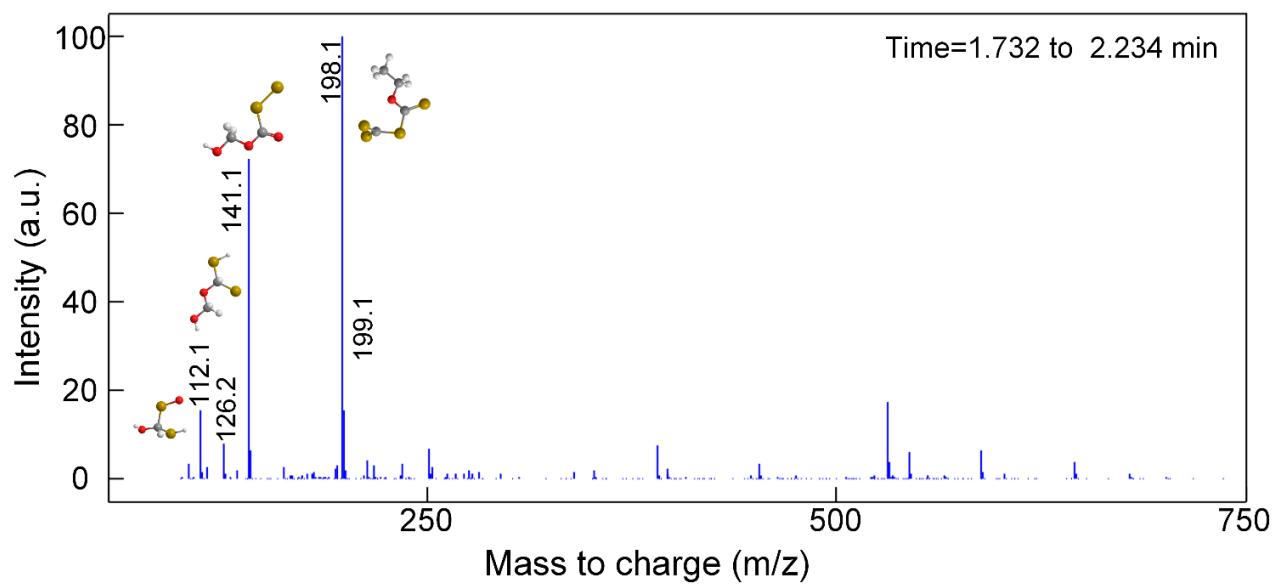
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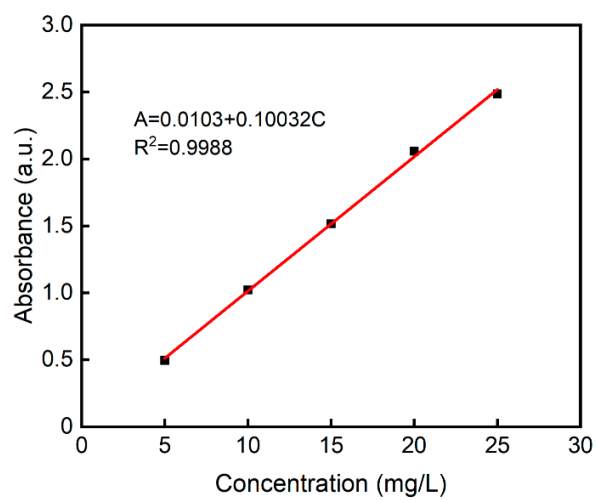
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**Figure S1.** EDS spectra of BTA composites.



**Figure S2.** LC-MS pattern of SEX after a 5 min photocatalytic reaction.

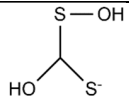
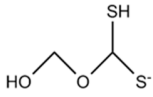
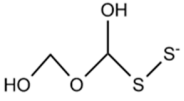
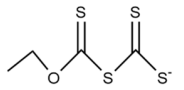


**Figure S3.** Absorbance standard curve of SEX solution.

**Table. S1** BET specific surface area of different composites.

Sample	$S_{\text{BET}}$ (m <sup>2</sup> /g)
BT	29.25
BTA	57.77

**Table. S2** Chemical structures and m/z values of possible degradation intermediates of SEX.

Substance	Molecular structure	Molecular weight	m/z
$\text{CH}_3\text{O}_2\text{S}_2^-$		111	112.1
$\text{C}_2\text{H}_5\text{O}_2\text{S}_2^-$		125	126.2
$\text{C}_2\text{H}_5\text{O}_2\text{S}_2^-$		141	141.1
$\text{C}_4\text{H}_5\text{OS}_4^-$		197	198.1& 199.1