

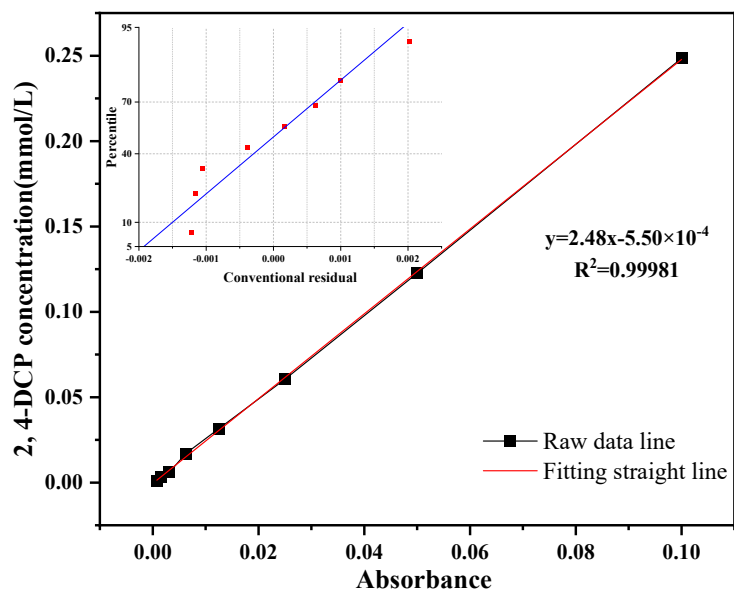
## Supporting Information

Advanced photocatalytic performance of PVP-modified BiOBr materials  
for the removal of 2, 4-DCP and mechanism insight

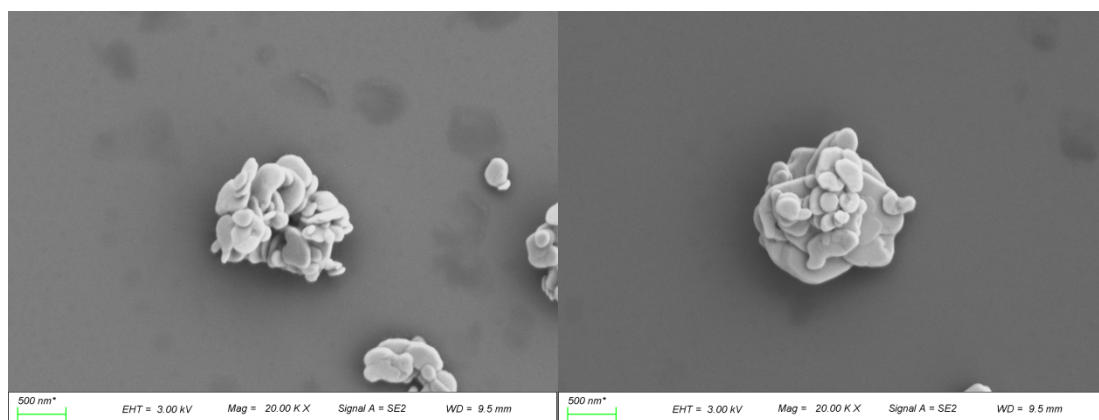
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**Fig. S1** The linear relationship between the concentration of 2, 4-DCP solution and its absorbance measured by UV/Vis spectrophotometer at 285 nm.



**Fig. S2** The morphology of pure bismuth oxybromide.

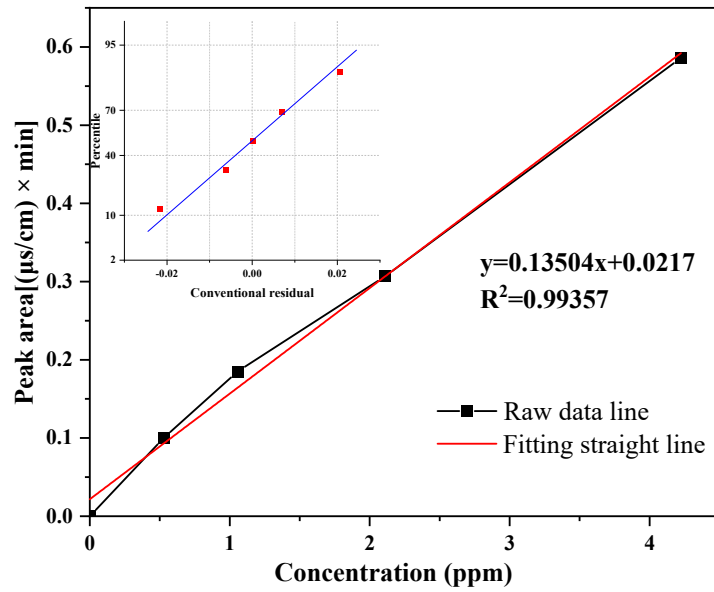


Fig. S3 The standard curve of formic acid measured by ion chromatography.

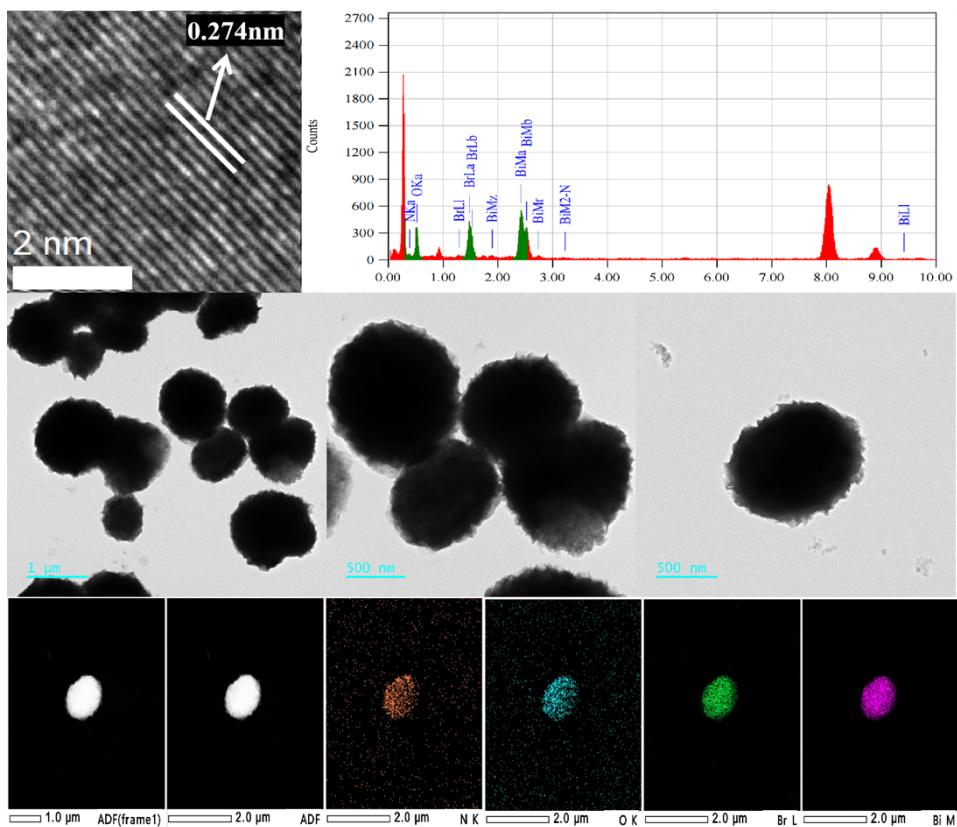


Fig. S4 The TEM images of BP-1.0 sample after reaction.

**Table S1** BET data of BiOBr and BP samples

Sample	$S_{\text{BET}}$ ( $\text{m}^2\text{g}^{-1}$ )	Pore Size (nm)	Pore Volume ( $\text{cm}^3\text{g}^{-1}$ )
BiOBr	5.076	16.668	0.002
BP-0.1	4.836	31.456	0.038
BP-0.5	4.440	20.027	0.022
BP-1.0	2.358	19.233	0.011
BP-1.5	2.151	16.789	0.001