

Supplementary Information

Sulfated lignocellulose nanofibril supported flower-like BiOBr with oxygen vacancies towards absorption-photocatalytic synergetic removal of organic pollutants

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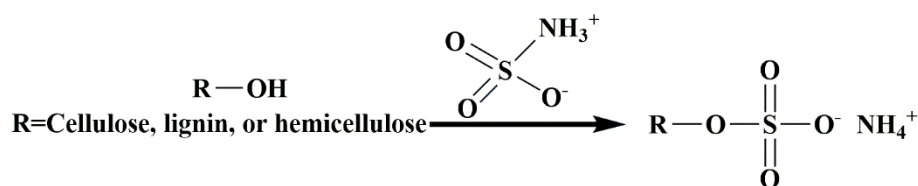


Fig. S1 The reaction between sulfamic acid and lignocellulosic components.

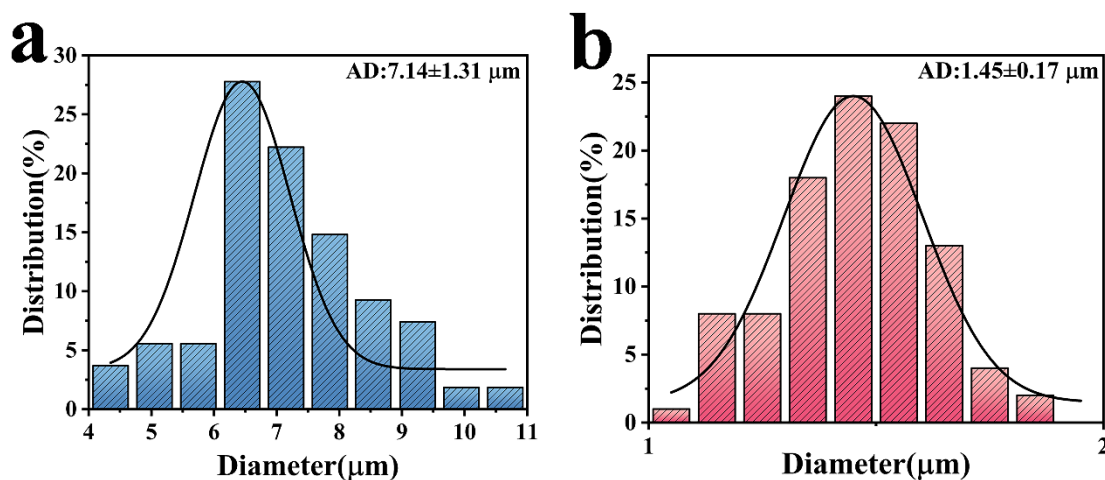


Fig. S2 The particle diameter distribution of BiOBr and BiOBr/SLCNF.

Table. S1 The fitting parameters of different kinetics models.

sample	solution	Pseudo-first-order model			Pseudo-second-order model		
		q_e (mg/g)	k_1 (min ⁻¹)	R^2	q_e (mg/g)	k_2 (min ⁻¹)	R^2
BiOBr	RhB	24.38	0.2595	0.9950	25.35	0.0241	0.9991
	TCH	3.81	0.8666	0.9909	3.89	0.6430	0.9999
BiOBr/SLCNF	RhB	48.96	2.5825	0.9948	49.8	0.1149	0.9999
	TCH	8.78	2.6033	0.9983	8.87	0.9170	0.9999

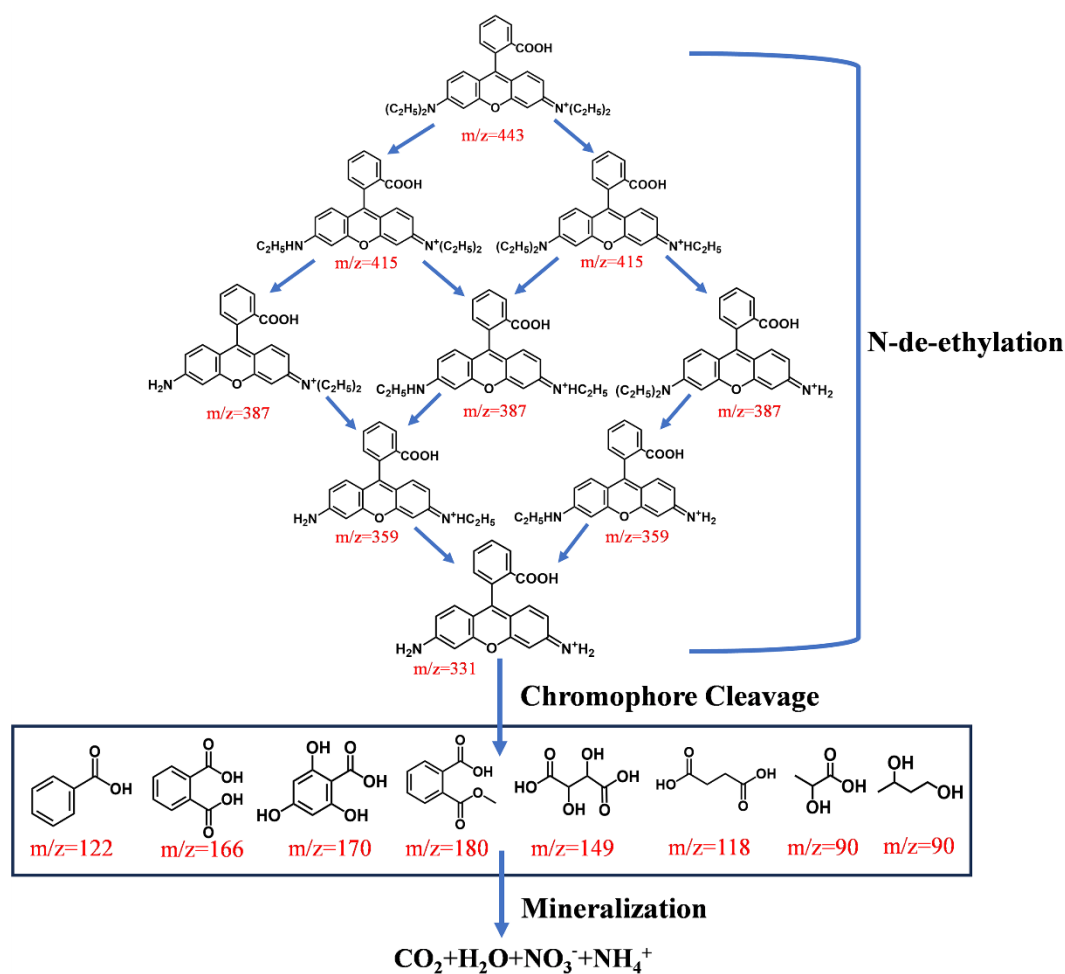


Fig. S3 Possible degradation products of RhB after irradiation.

Mass spectra of the degraded small intermediates:

