Fig. 1S Plot of (a) \((c_t/c_0)\) versus reaction time and (b) \(\ln(c_t/c_0)\) versus reaction time in the presence of the \(\text{Sb}_2\text{Se}_3\) for different hydrothermal times.
Fig. S2 N\textsubscript{2} adsorption–desorption isotherms of Sb-rich Sb\textsubscript{2}Se\textsubscript{3} and Se-rich Sb\textsubscript{2}Se\textsubscript{3} samples

Fig. S3 XRD pattern of Sb\textsubscript{2}Se\textsubscript{3} sample synthesized by a hydrothermal method at 180 °C with the ratio of Sb/Se 1:1.5 for 10 h
Fig. S4 Plot of \((c_t/c_0)\) versus reaction time in the presence of the \(\text{Sb}_2\text{Se}_3\) synthesized by a hydrothermal method at 180 °C with the ratio of Sb/Se 1:1.5 for 10 h