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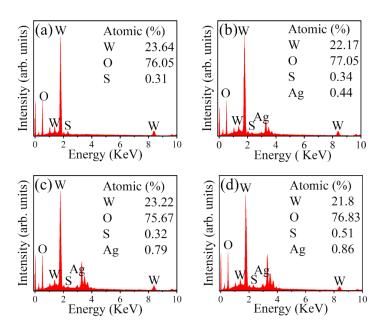


Fig. S1 SEM-EDS spectra: (a) S-WO<sub>3</sub>, (b) SWAS50, (c) SWAS100, and (d) SWAS150.

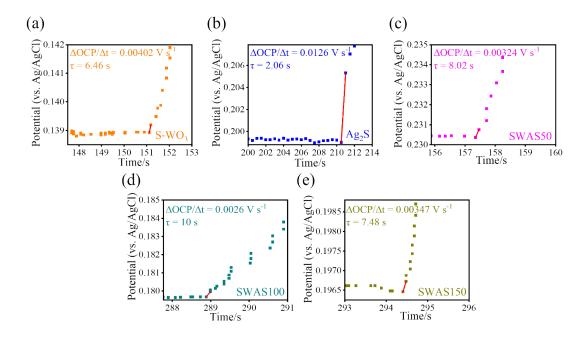


Fig. S2 The carrier lifetime of various samples derived from OCP decay curves at the transient when illumination is removed; (a) S-WO<sub>3</sub>, (b) Ag<sub>2</sub>S, (c) SWAS50, (d) SWAS100, and (e) SWAS150.