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Supplementary Information

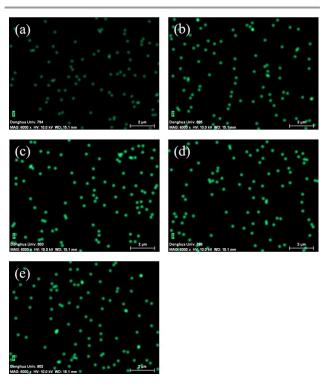
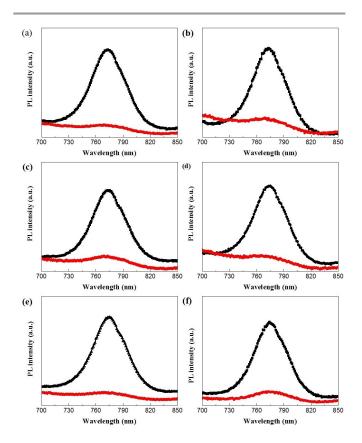


Fig.s1 EDS mapping images of signals from F elements for the surface of varying concentration of C_{13} -FAS on CH₃NH₃Pbl₃/glass



 $\label{eq:Fig.s2} \begin{array}{l} \mbox{Fig.s2} \mbox{Steady-state PL spectra of varying concentration of (a) non-modified} \\ (b) 0.5 wt% (c) 1.0 wt% (d) 1.5 wt% (e) 2.0 wt% (f) 2.5 wt% C_{13}\mbox{-FAS without} \\ \mbox{spiro-OMeTAD (black line) and with spiro-OMeTAD (red line) on} \\ \mbox{CH}_3 \mbox{NH}_3 \mbox{Pb}_3 \end{array}$