

Supporting information for “Crystal Orientation-Dependent Degradation of MAPbBr_{2.5}Cl_{0.5} Single Crystals under X-ray Irradiation”

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Figure s1. Cross-section photos of $\text{MAPbBr}_{2.5}\text{Cl}_{0.5}$ perovskite single crystals after different dose of irradiation.

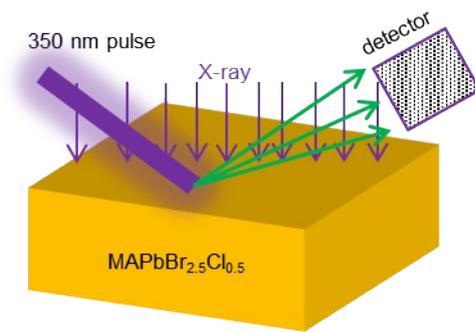
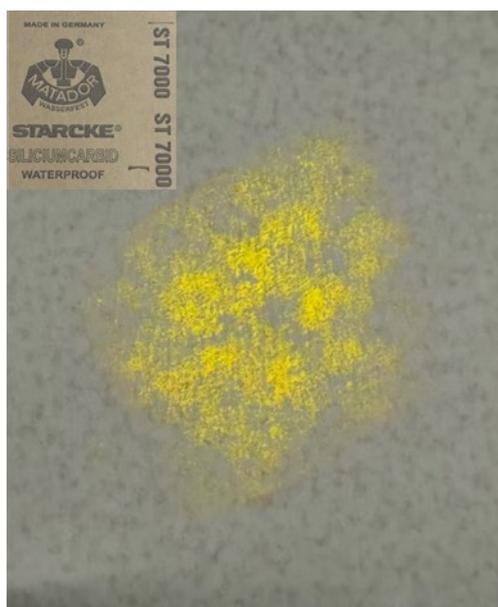


Figure s2. Set-up of the PL and TRPL experiments.



Step 1: Polish the $\text{MAPbBr}_{2.5}\text{Cl}_{0.5}$ perovskite single crystals, with 7000 grit sandpaper

Step 2: Put the powder of $\text{MAPbBr}_{2.5}\text{Cl}_{0.5}$ perovskite single crystals into toluene

Step 3: Ultrasonic for 30 minutes,

Figure s3. Preparation process of the samples made of $\text{MAPbBr}_{2.5}\text{Cl}_{0.5}$ perovskite single crystals for transmission electron microscopy experiments.

Before irradiation

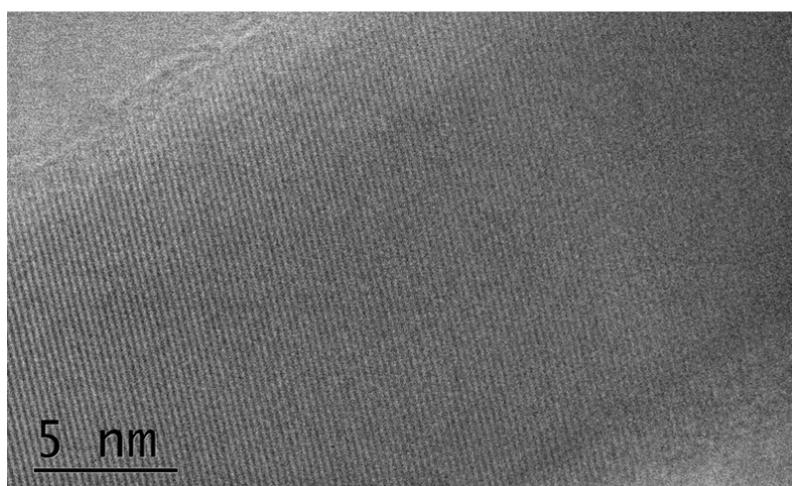
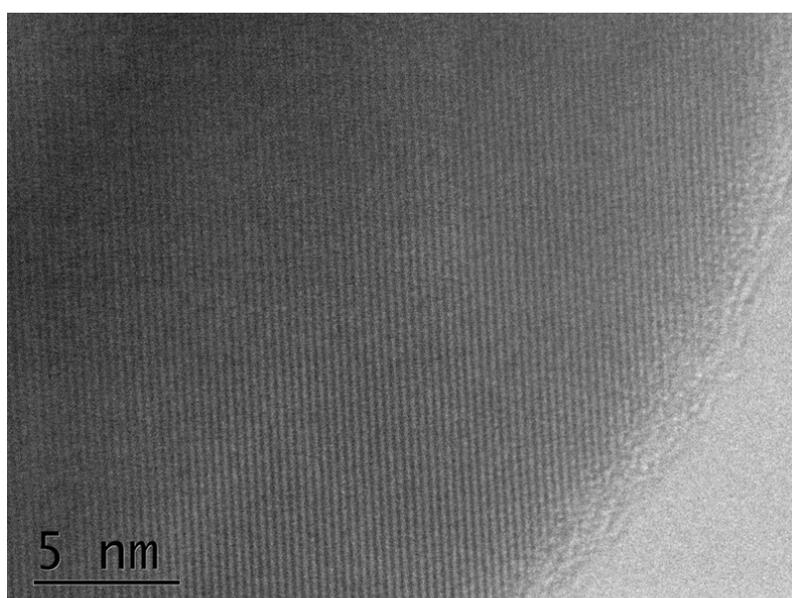
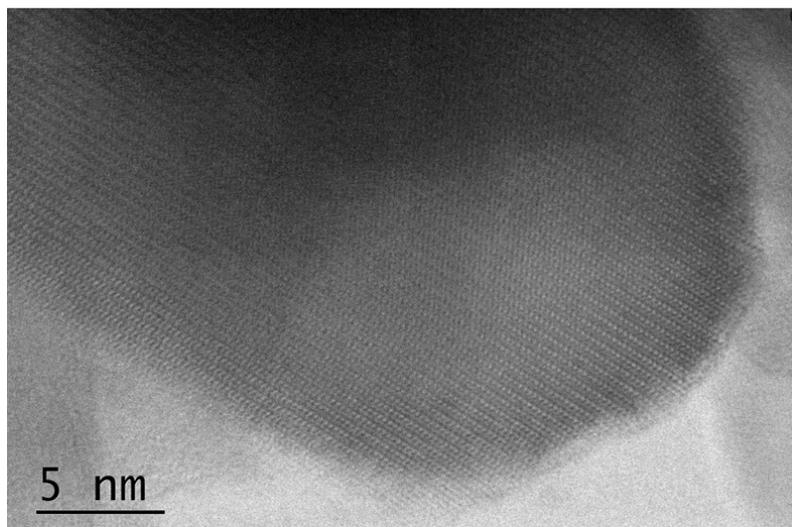


Figure s4. Transmission electron microscopy Photos of $\text{MAPbBr}_{2.5}\text{Cl}_{0.5}$ perovskite single crystals before irradiation.

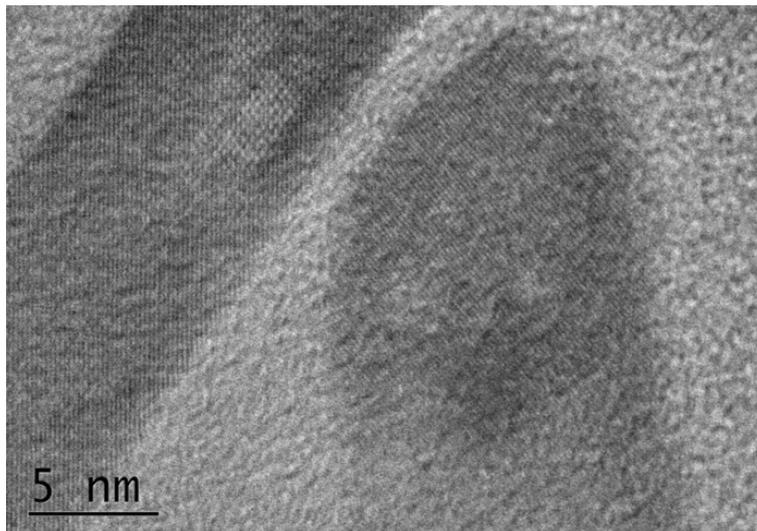
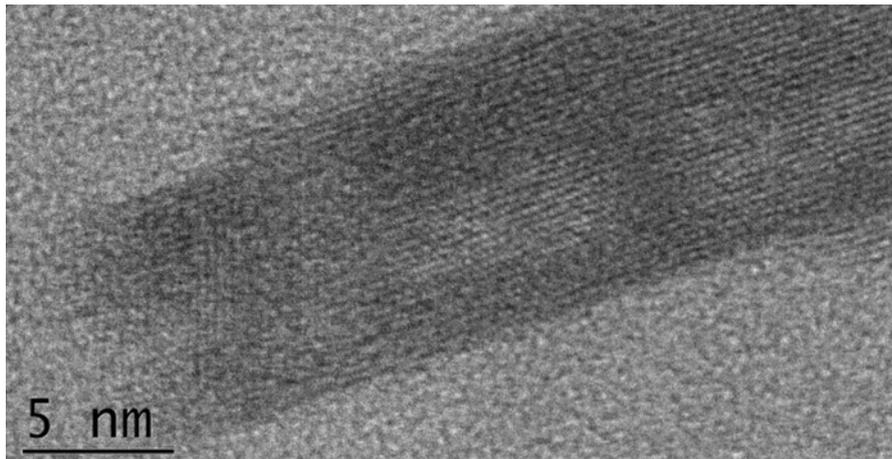
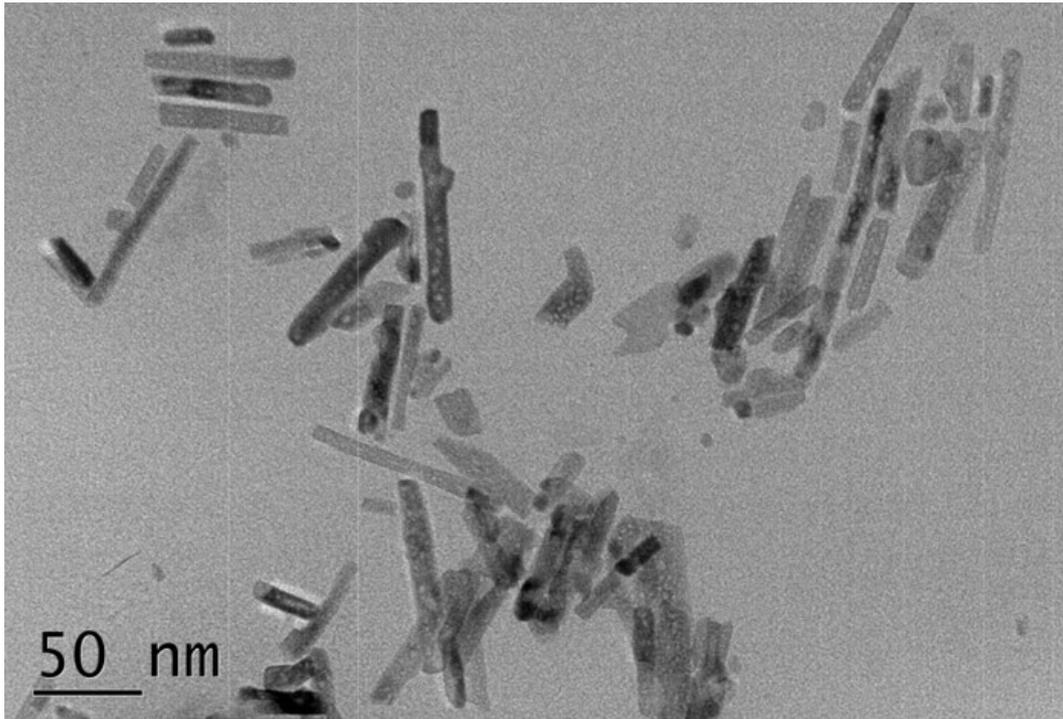


Figure s5. Transmission electron microscopy Photos of MAPbBr_{2.5}Cl_{0.5} perovskite single crystals After irradiation.