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Supplementary Information

Enhanced Photoluminescence and Random Lasing Emission in TiO_2-Decorated $FAPbBr_3$ Thin Films

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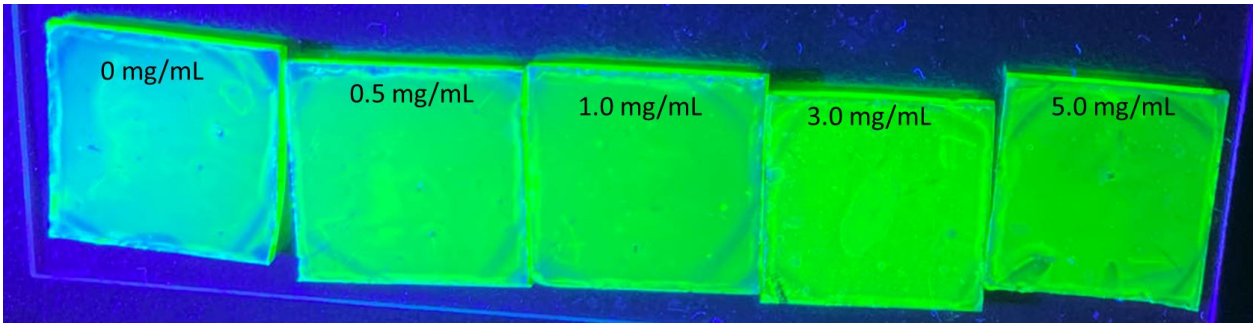

Figure S1. The photographs of the $FAPbBr_3$ thin films with and without TiO_2 nanoparticles decoration.

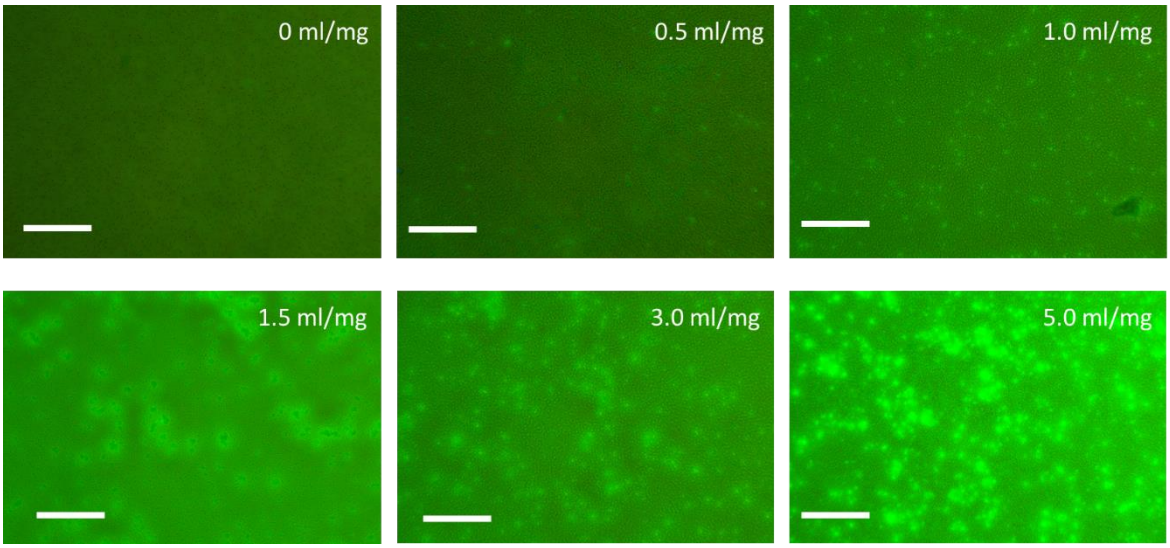

Figure S2. The distribution of photoluminescence emission in the $FAPbBr_3$ thin films with and without TiO_2 nanoparticles decoration measured by using the home-built fluorescence microscope (the scale bar is 100 μm).