Supporting Information

Plasmon-Enhanced Blue-Light Emission of Stable Perovskite Quantum Dot Membranes

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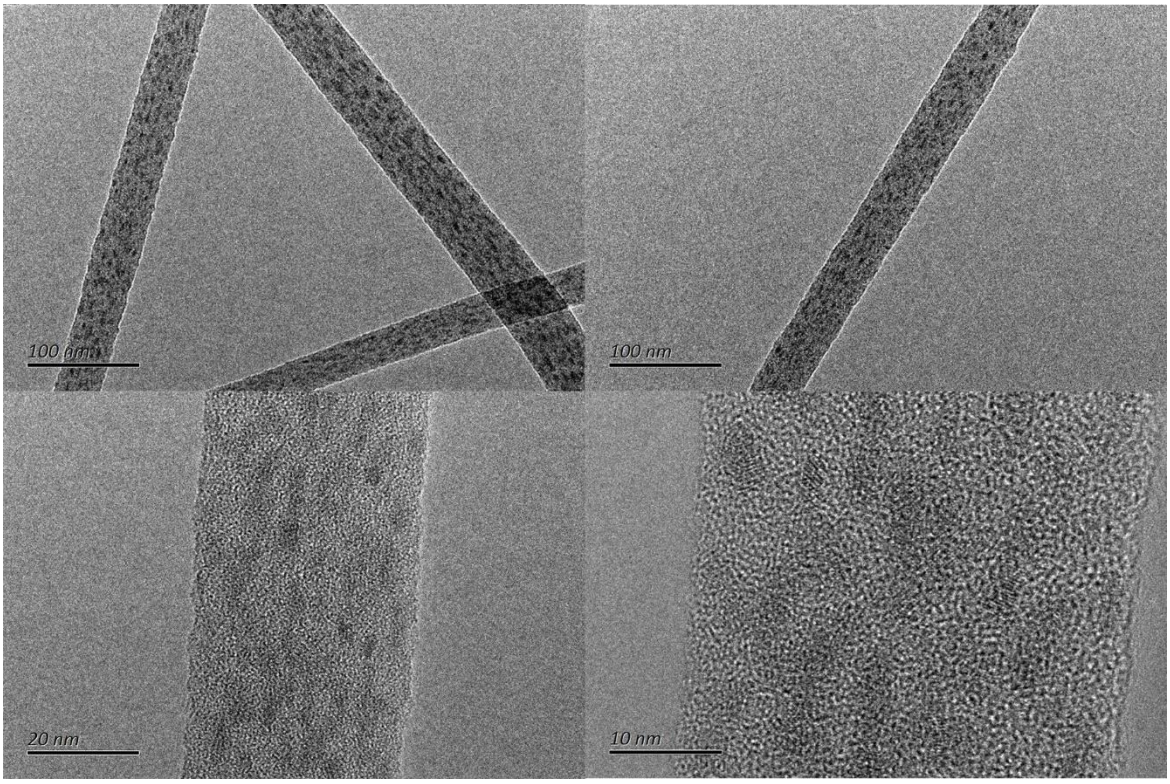


Figure S1. TEM and HRTEM images of PVDF-$MAPbBr_{1.2}Cl_{1.8}$ QDs nanofibers indicating that almost all PQDs are encapsulated inside the PVDF fibers.

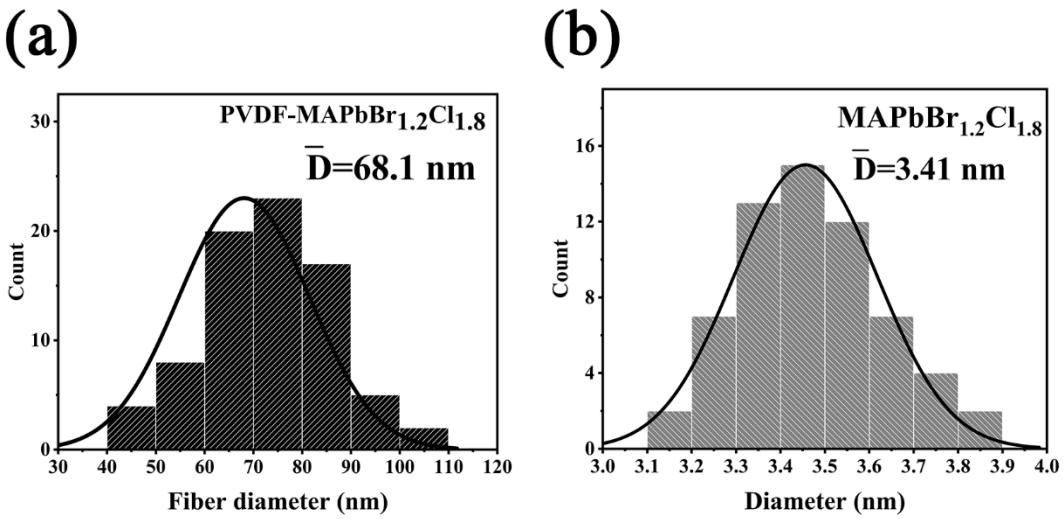


Figure S2. (**a**) The diameter statistics of the PVDF-MAPbBr$_{1.2}$Cl$_{1.8}$ fibers and (**b**) the size statistics of the MAPbBr$_{1.2}$Cl$_{1.8}$ QDs.

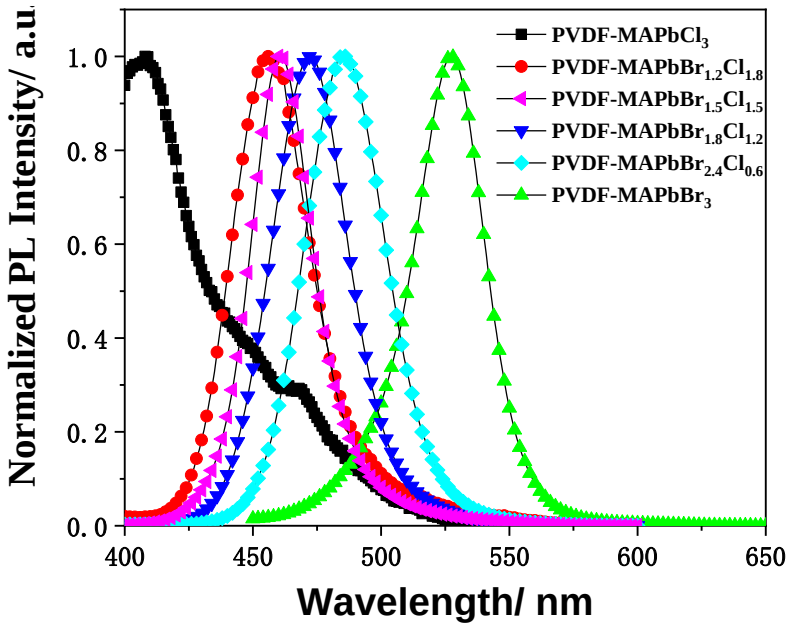


Figure S3. Normalized PL spectra of PVDF-MAPbBr$_{3-x}$ Cl$_x$ with different the ratio of Cl$^-$ and Br$^-$.

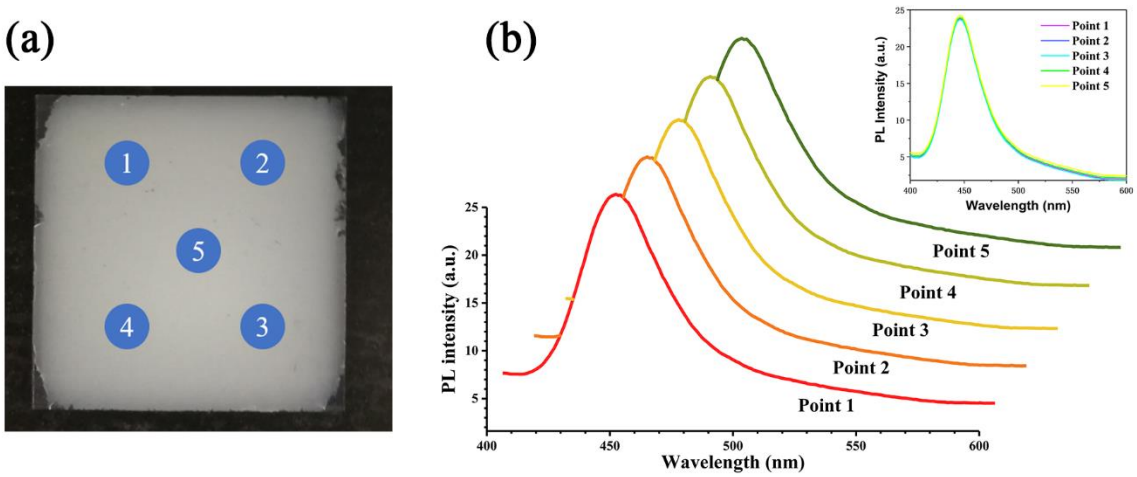


Figure S4. (**a**) Schematic diagram of five points on the PVDF-PQDs membrane; (**b**) The PL spectra of five points on the membrane. The inset shows overlap of the PL spectra of these five points.

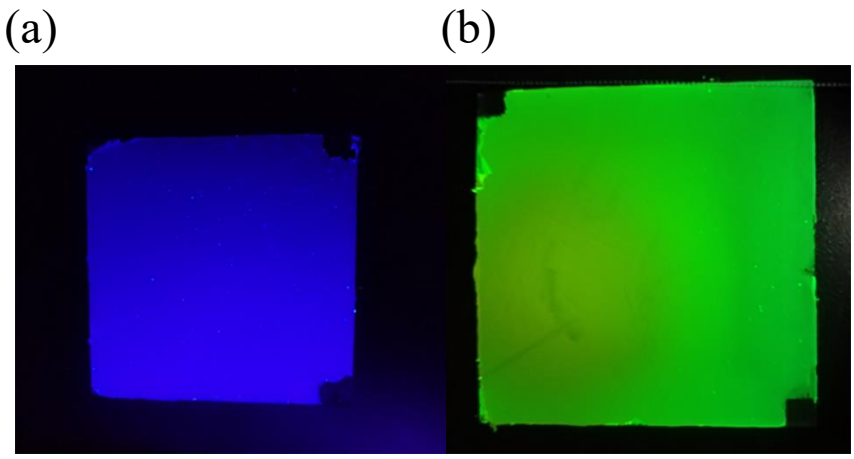


Figure S5. The optical images of (**a**) PVDF-$MAPbBr_{1.2}Cl_{1.8}$ and (**b**) PVDF-$MAPbBr_3$ films on FTO substrates under ultraviolet irradiation at ~365 nm wavelength.