Supporting Information

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

Kai Gu 1, Hongshang Peng 1,2, Siwei Hua 1, Yusong Qu 1 and Di Yang 1,*

* Correspondence: diyang@muc.edu.cn; Tel.: +86-1352-274-3208

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.