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Electronic Supplementary Information



Figure S1. The contact angles of (a) H₂O/PEM and (b) DMF/PEM (c) precursor DMF solution/PEM.

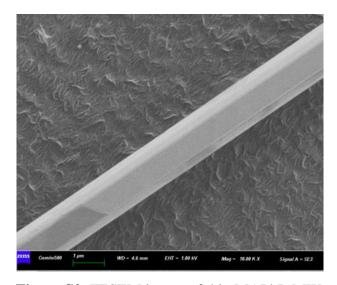


Figure S2. FESEM image of thin MAPbI₃ MW.

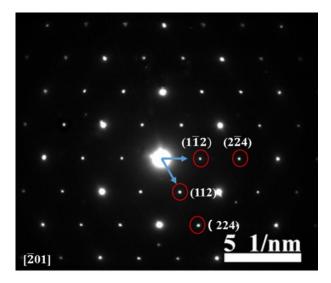


Figure S3. Selected area electron diffraction pattern of MAPbI₃ MW.

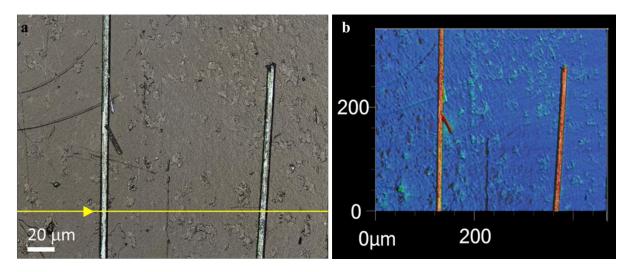


Figure S4. (a) 2D and (b) 3D laser optical micrographs of MAPbI₃ MWs.

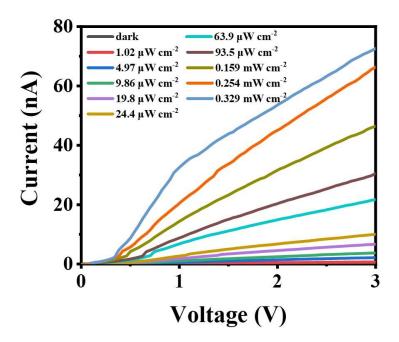


Figure S5 I-V curves of MAPbI₃ MW arrays under 523 nm LED illumination with different light intensities at 3 V bias.

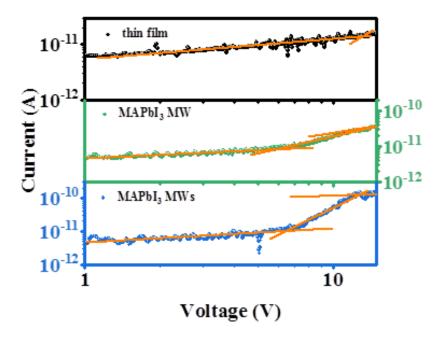


Figure S6 I-V plots of single-crystal MAPbI₃ MW, MW arrays, and thin film by space charge limited current method.