

Supporting Information

Water-induced dimensionality from 3D to microwires and 2D hybrid halide perovskites

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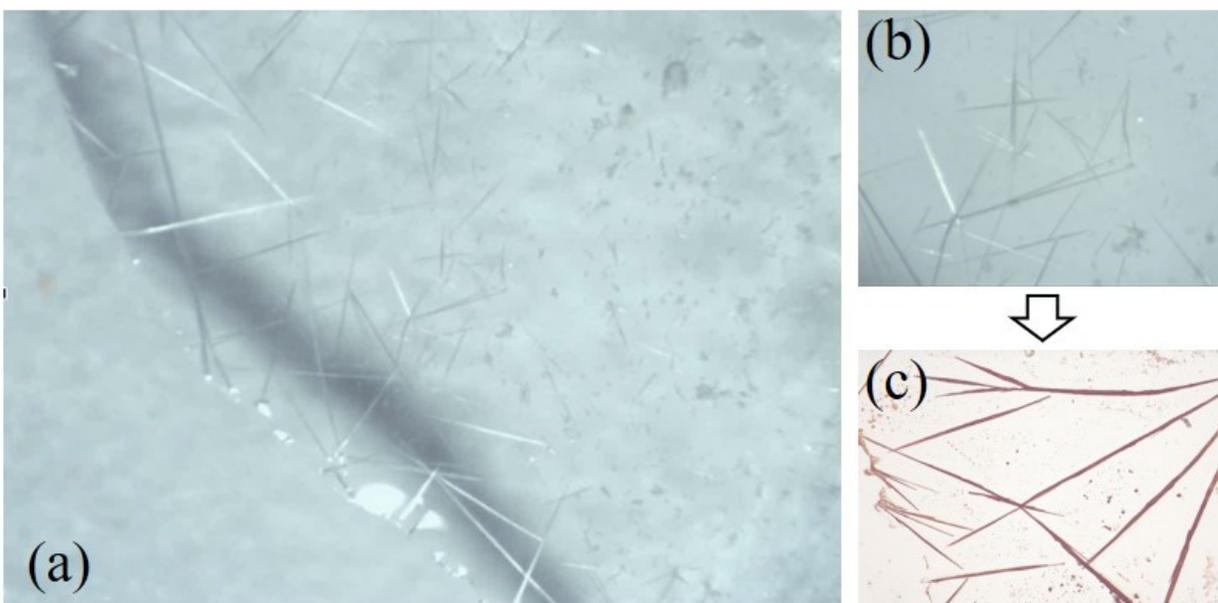


Fig. S1. Optical microscopy images during the recrystallization process; (a) and (b) after hydrating; (c) 1h drying.

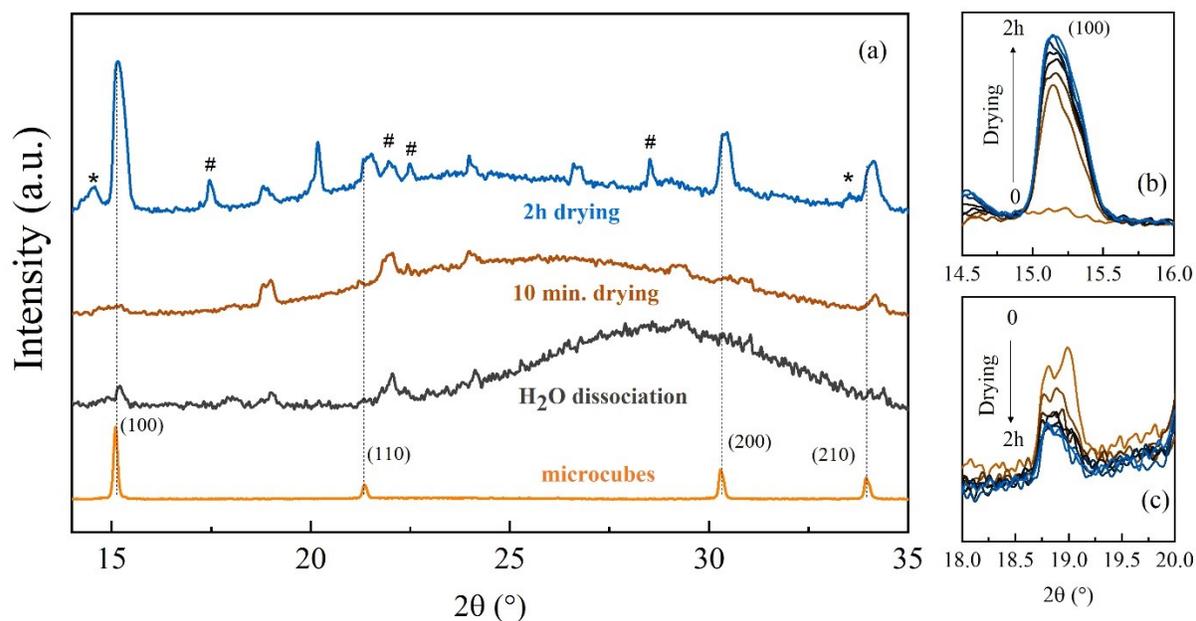


Fig. S2. *In-situ* X-ray diffraction measurements with recrystallization process. (a) XRD for three conditions: (i) as-synthesized MAPbBr₃ microcubes (orange curve) with cubic crystal structure and space group $Pm\bar{3}m$; (ii) microcubes during water dissociation (dark gray curve), and dehydration process: after (iii) 10 minutes and (iv) 2h of sample drying in the open atmosphere inside the diffractogram chamber. (b) evaluation (100) reflection as a function of drying time for 2h; (c) suppression of un-indexed reflection during 2 h of drying. Additional phases are highlighted as: (*) PbO, and (#) PbBr₂.