

Supporting information

High speed growth of MAPbBr₃ single crystals via low-temperature inverting solubility: enhancement of mobility and trap density for photodetector applications

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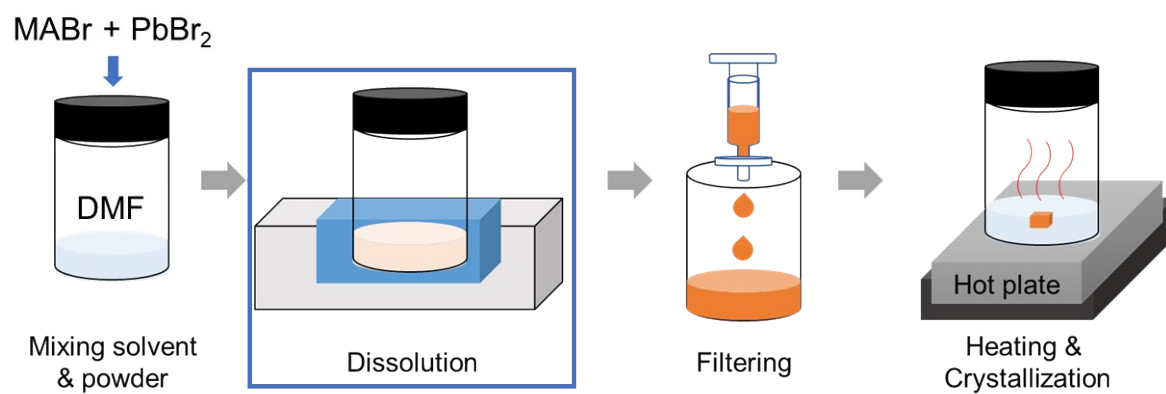


Figure S1 Schematic representation of the ITC method displayed on the control of dissolution temperatures.

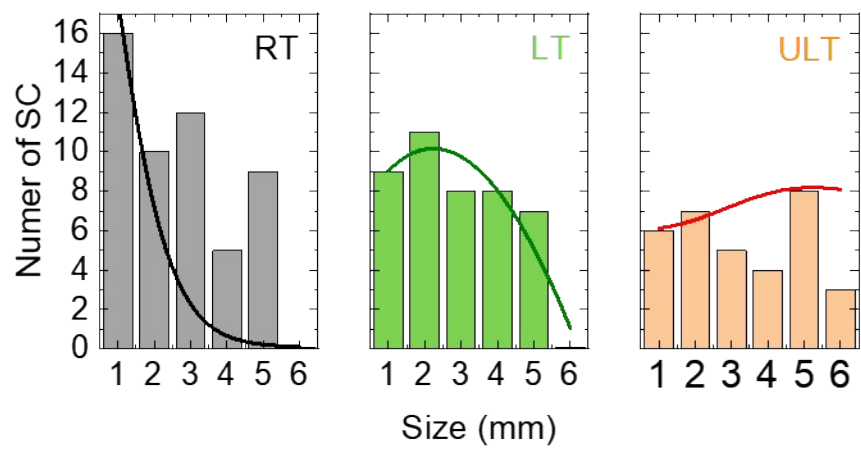


Figure S2 The distribution of crystal size at different dissolution temperatures.

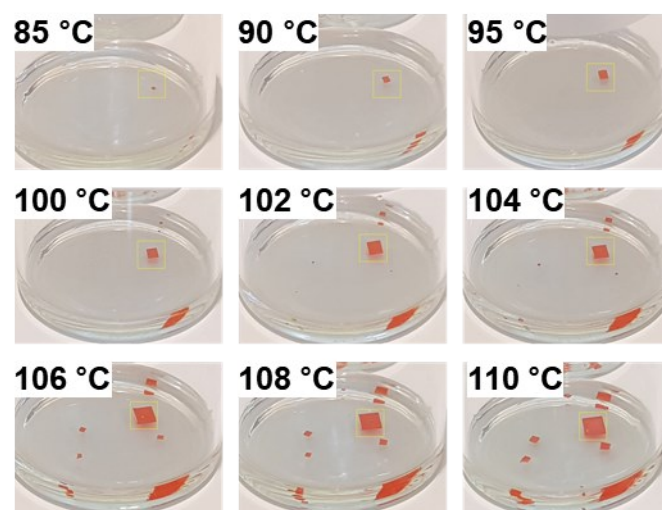


Figure S3 MAPbBr₃ single crystal images at different temperatures during the heating process with LT condition.

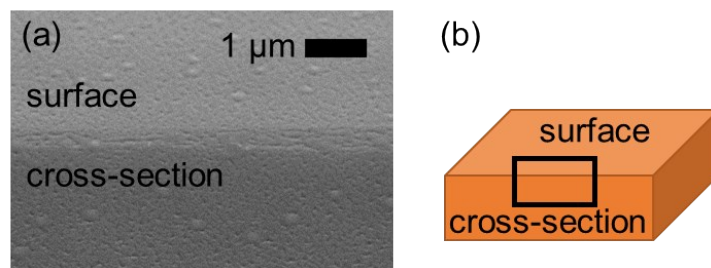


Figure S4 (a) SEM images of surface and cross-section for MAPbBr₃ single crystals with LT conditions. (b) Schematic of SEM measurement region for MAPbBr₃ single crystal

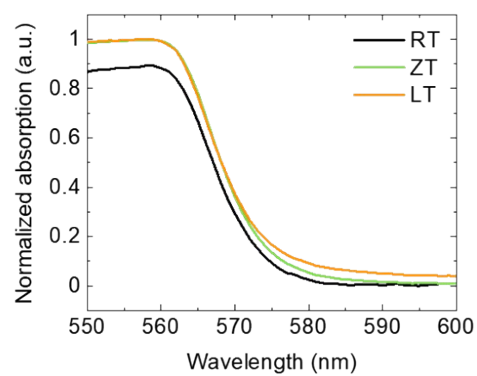


Figure S5 Absorption of MAPbBr₃ single crystals with different dissolution conditions.