

Supplementary information

Room-temperature blend-solvents-vapor annealing for high performance perovskite solar cells

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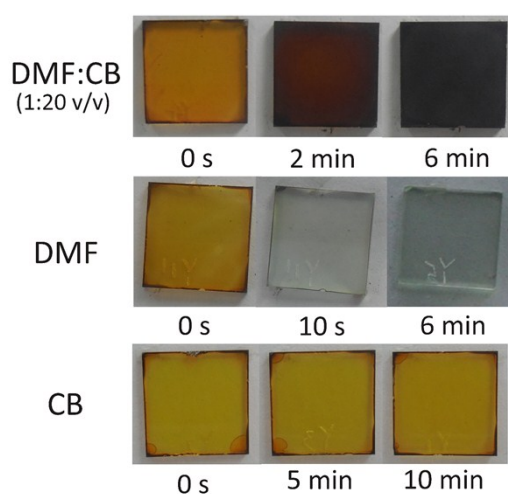


Figure S1. Color change of the MAPbI_{3-x}Cl_x thin films after solvent annealing at room temperature by the mixed solvents (DMF:CB = 1:20, v/v) or single solvent of DMF or CB.

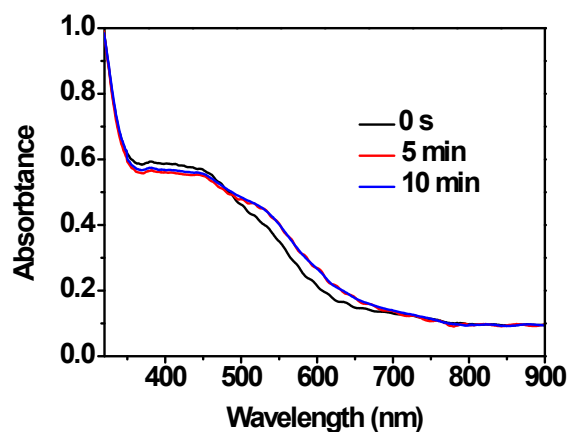


Figure S2. UV-vis absorption spectra of the MAPbI_{3-x}Cl_x thin films before and after CB vapor annealing at room temperature for different times.

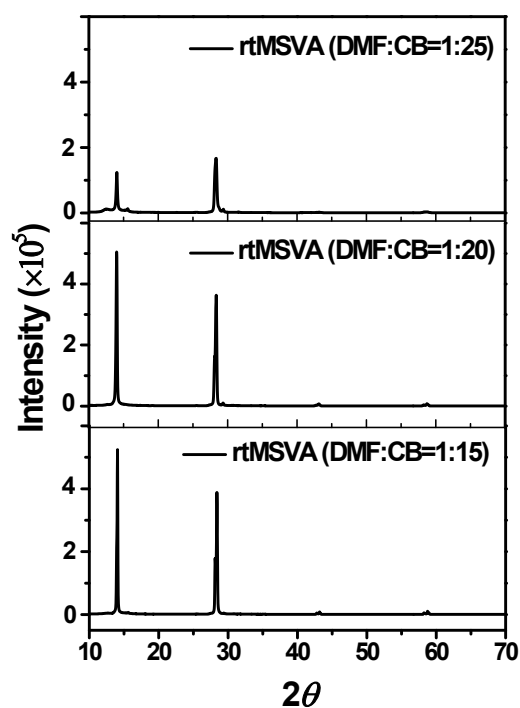


Figure S3. XRD patterns of the pero-TFs processed by the rtMSVA of the mixed DMF/CB solvents with different volume ratios.

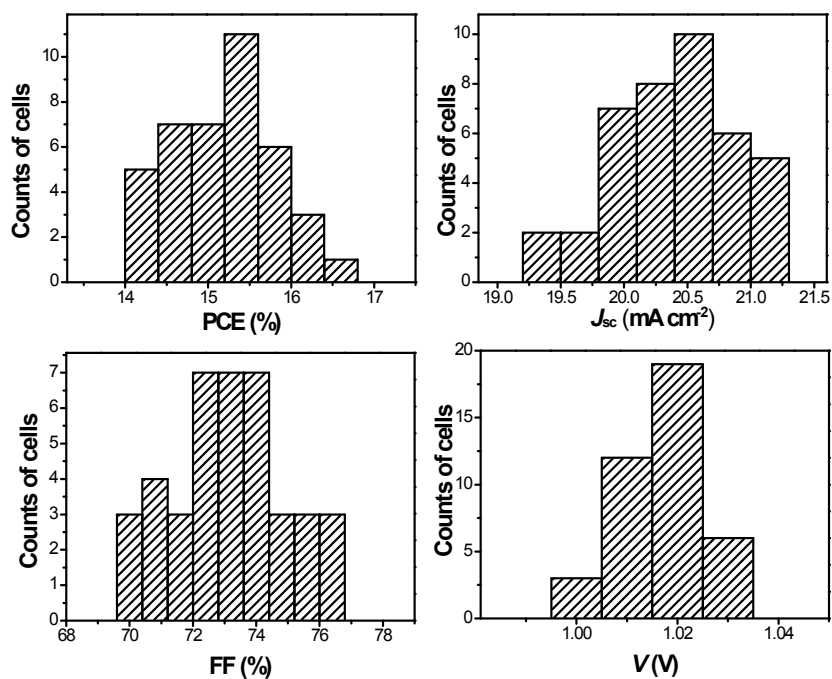


Figure S4. Analysis of photovoltaic performances of the pero-SCs treated by rtMSVA for 40 devices.