Crystallization dynamics in wide-bandgap perovskite films


Figure S1 Schematic layer stack of the n-i-p perovskite solar cell.

Figure S2 (a) Normalised absorptance and (b) PL spectra of CH$_3$NH$_3$Pb(I$_{0.6}$Br$_{0.4}$)$_3$ film annealed at 110 °C for 90 minutes.
**Figure S3** PL spectra of CH$_3$NH$_3$Pb(I$_{0.6}$Br$_{0.4}$)$_3$ films annealed at 110 °C for different durations.

**Figure S4** Average grain sizes in CH$_3$NH$_3$Pb(I$_{0.6}$Br$_{0.4}$)$_3$ films annealed at different conditions.
Table S1 Photovoltaic parameters of solar cells employing CH$_3$NH$_3$Pb(I$_{0.6}$Br$_{0.4}$)$_3$ films annealed at different annealing conditions.

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<th>Annealing time (min.)</th>
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<th>$V_{OC}$ (V)</th>
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