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Effects of soft mechanochemical synthesis in MAPbCl₃ powders

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In our recent investigation on MAPbCl₃, we found that phase separation occurs in the orthorhombic low-temperature phase, depending on the graining intensity. For lightly ground batches, besides the orthorhombic phase “o1” (space group Pnma, $a \approx 11.2 \text{ \AA}$, $b \approx 11.3 \text{ \AA}$, $c \approx 11.3 \text{ \AA}$) another orthorhombic phase “o2”, which has the same space group Pnma as “o1”, but a smaller crystal lattice ($a \approx 8.0 \text{ \AA}$, $b \approx 11.3 \text{ \AA}$, $c \approx 7.9 \text{ \AA}$) was observed by us.

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