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Gas-assisted coating of Bi-based $(\text{CH}_3\text{NH}_3)_3\text{Bi}_2\text{I}_9$ active layer in perovskite solar cells

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Supplement

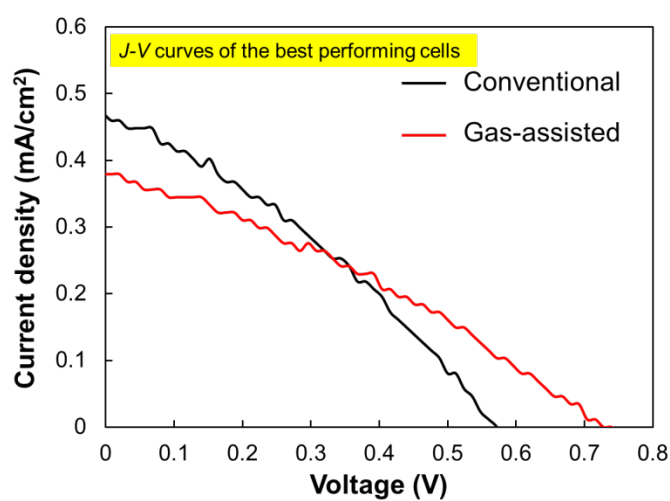
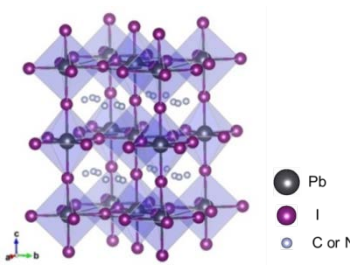
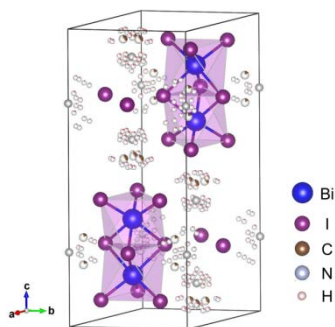


Fig. S1 *J-V* curves of the best performing cells.

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Table S1 Comparison between $\text{CH}_3\text{NH}_3\text{PbI}_3$ and $(\text{CH}_3\text{NH}_3)_3\text{Bi}_2\text{I}_9$.

	$\text{CH}_3\text{NH}_3\text{PbI}_3$	$(\text{CH}_3\text{NH}_3)_3\text{Bi}_2\text{I}_9$
Crystal structure	Tetragonal ($I4/mcm$) [1]	Hexagonal ($P6_3/mmc$) [2]
		
a (Å)	8.8117(8) [1]	8.4668(6) [2]
c (Å)	12.674(2) [1]	21.614(2) [2]
Band gap (eV)	~1.5 [3]	~2.1 [2,4]
Reported best PCE (%)	22.1 [5]	0.42 [6]
Exciton binding energy	13 meV [7]	70 meV [4]
Stability in a humid environment (Hr=55%±5%)	unstable [6]	stable [6]
Toxicity	Toxic	Less toxic

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