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两步沉积法制备 Br 或 Cl 掺杂的有机-无机杂化钙钛矿太阳电池

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Organic-Inorganic Hybrid Perovskite Solar Cells Processed with Br or Cl Doping *via* a Two-Step Deposition

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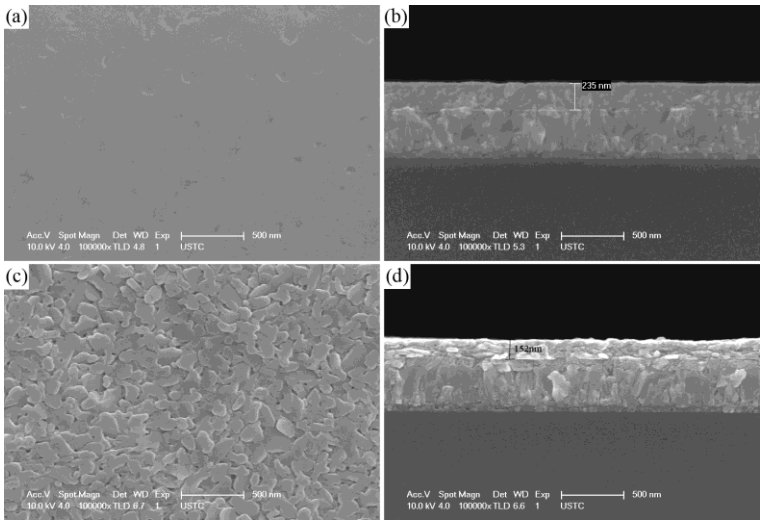

Fig.S1 Surface and cross-sectional SEM images of the PbI_2(DMSO) film (a, b) and PbI_2 film (c, d)

Table S1 EDX results of the perovskite solar cells derived from PbI_2(DMSO) complex with MAI via intramolecular exchange with different molar ratios of MABr or MACl with Pb as 1 mol.

Device			*n*/mol			
			Pb	I	Br	Cl
0.35 MAX	mol·L^{-1}	0% MABr	1	3.51	0.05	0.02
		5% MABr	1	3.65	0.23	0.04
		10% MABr	1	3.63	0.24	0.005
0.465 MAX	mol·L^{-1}	10% MACl	1	4.09	0.05	0.10
		15% MACl	1	3.68	0.06	0.11
		20% MACl	1	4.18	0.06	0.13