

## Supporting Information

### **Ionic liquid-assisted growth of methylammonium lead iodide spherical nanoparticles by a simple spin-coating method and photovoltaic properties of perovskite solar cells**

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**Table S1.** Peak parameters used to calculate the mean crystalline size in films formed with and without IL by the Scherrer formula.

**Table S1. Peak parameters used to calculate the mean crystalline size in films formed with and without IL using the Scherrer formula.**

Parameter	Perovskite films	
	With IL	Without IL
FWHM (B)	0.2401	0.2227
Bragg Angle ( $\theta$ ) Primary peak	14.01	14.08
X-ray wavelength ( $\lambda$ )	1.54	1.54
Constant (K)	0.9	0.9
$D_{XRD}$ (nm)	35.8	37.5