Grain sizes control of $CsPbBr_3$ by using Anti-solvent Crystallization and their application for Perovskite light emitting diodes

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The exceptional optical and electronic properties of metal halide perovskite make it the ideal newly coming optoelectronic materials. Compared to the record efficiency acquired in organic-inorganic hybrid perovskite LED, however, thin film $CsPbBr_3$ perovskite LED is rarely reported. As well as, perovskite LED have different optical properties depending on grain sizes. Therefore, it is noteworthy point to improve the performance of perovskite LED devices through Grain sizes control of $CsPbBr_3$ by using anti-solvent crystallization.