

Progress in halide perovskite LEDs and doping mechanism in CuI

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Halide perovskites are promising luminous materials for active layer in LEDs because of high quantum efficiency for photoluminescence. These LEDs are attracted attention as post OLEDs. In this talk I will talk about our research on the following topics:

1. Highly efficient copper halide phosphors
2. Foldable and high-performance halide perovskites LEDs utilizing amorphous oxide semiconductors
3. Mechanism for isovalent p-type doping in CuI.