

# 4<sup>th</sup> International Conference and Exhibition on **Materials Science & Engineering** September 14-16, 2015 Orlando, USA

## **High efficiency organo-metal halide perovskite devices by spray and brush solution-processing methods**

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The recent emergence of efficient organic/inorganic lead halide perovskite compounds which are easy to fabricate, have better stability, and possess superior power conversion efficiency have shown the potential to transform photo-voltaics technology. These are very promising in transforming the fields of dye-sensitized, organic, and thin film solar cells. In this research, a versatile solution-processing method called “Spray+Brush” (SB) has been adopted to achieve a power-conversion efficiency of 3.52% for photo-voltaics by incorporating organo-metal halide perovskite absorbers. It has been observed that this method is more efficient and cost effective than the perovskite devices fabricated by spray (1.95%) and brush (1.17%) methods when used alone. The SB method of solution processing can be promising for various other organic coatings.

### **Biography**

Padmaja Guggilla is an Associate Professor at Alabama Agricultural and Mechanical University, USA.

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