

Special Issue on  
**Perovskite-Based Solar Cells: The Theories of Materials  
and Devices**

# CALL FOR PAPERS

Organic-inorganic hybrid perovskite (abbreviated as perovskite) solar cell has recently become an intensively explored topic in photovoltaic (PV) field because of its high performance and potentially low manufacturing cost. Significant efforts have been focused on developing high quality perovskite thin films and improving the stability of perovskite solar cells. What have been rarely addressed in literatures are theoretical perspectives of perovskite-based materials and solar cells.

This special issue deals with the fundamental research perovskite-based materials and solar cells, from theoretical analysis to advanced characterizations of materials and device structures, which will help understand the working principles of perovskite-based solar cells.

Potential topics include but are not limited to the following:

- Synthesis and advanced characterization of perovskite-based solar cells
- Theoretical analysis of perovskite materials and devices
- Theoretical and experimental investigation of impurities in perovskite materials

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**Manuscript Due**

Friday, 21 October 2016

**First Round of Reviews**

Friday, 13 January 2017

**Publication Date**

Friday, 10 March 2017