Special Issue

Halide Perovskites for Energy Applications

Message from the Guest Editor

Unique halide perovskites have been increasingly used in solar cells and photocatalysis due to their stable structure and high energy conversion efficiency. The toxicity of lead ions in halide perovskite absorber materials is a major obstacle to their practical application. To replace traditional lead halide perovskites with environmentally friendly double perovskites, computational tools based on density functional theory are used to predict the intrinsic properties of potential double perovskites and to efficiently and quickly find other double perovskites with properties suitable for optoelectronic applications.

Keywords:

- halide perovskites
- energy conversion efficiency
- optoelectronic applications
- photovoltaic and photocatalytic applications

Guest Editor

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