Special Issue

Recent Progress of Perovskite Photodetectors

Message from the Guest Editor

Photodetectors are devices which can directly convert light into electrical signals. They are applied in various fields, such as optical communication, biomedical imaging, military monitoring, chemical/biological sensing, etc. Solution-processed perovskites offer notable advantages of processing versatility and exceptional optoelectronic properties, including high absorption with tunable bandgaps, high charge carrier mobilities, and low binding energies, making them very suitable for light detecting applications. This Special Issue aims to provide a platform to display the latest progress of perovskite photodetectors and inspire future development in this field of research, focusing on advances in lead or lead-free perovskite materials and the optimization of their performance in light detection. Areas to be covered in this Special Issue may include, but are not limited to, the following:

- Synthesis of novel perovskites or perovskite derivatives;
- Optimization of the light detection performance;
- Understanding of the mechanism;
- Novel device structures.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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