

Call for papers on special issue “Perovskite photovoltaics and optoelectronic devices”

Guest Editor

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Aim & Scope: Metal halide perovskite have been regarded as promising classes of materials for photovoltaics and optoelectronic devices, owing to the unique characteristics, such as long charge carrier diffusion lengths, precise tunable bandgaps, high light absorption coefficients, and high defect tolerance. Research on perovskite in the fields including photovoltaics, light-emitting diodes, lasers, X-ray imaging, and photodetectors has been gaining increasingly interest over the past years. Up to now, the efficiency of perovskite solar cells has grown from 3.8% in single-junction solar cells in 2009 to more than 25%, catching up the efficiency level of commercial silicon cells. Up to now, the key issues of perovskite photovoltaics and optoelectronic devices have become the stability, performance and large-scale production. This requires optimization of the film morphology, interface, device structure and the fabrication process. A lot work has been done on this issue and has made remarkable progress.

WI kindly invite you to submit a manuscript(s) for this Special Issue. Full papers, communications, and reviews are all welcome.

Keywords: perovskite solar cells, optoelectronic devices, stability, performance, large-scale production.

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Subtopic

- 1 Perovskite solar cells
- 2 Perovskite light-emitting diodes
- 3 Perovskite lasers
- 4 Perovskite photodetectors
- 5 X-ray imaging based on perovskite

Deadline for manuscript submissions: 30 November 2020

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