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Commercializing Perovskite Photovoltaics

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Message from the Guest Editors

Dear Colleagues,

We are pleased to invite original papers and perspectives/reviews specifically on “Commercializing Perovskite Photovoltaics” to *Photonics*:

- Deposition methods and processes suited to large-area fabrication of perovskite solar cells
- New perovskite materials including 2D/3D, inorganic, double-, and chalcogenide- perovskites that may aid in long-term stability
- New developments in other functioning layers in the perovskite solar cell stack, including hole/electron transport materials, transparent conductive oxides, recombination/tunnel junctions, buffer layers, and passivation layers or methods
- Non-toxic, Pb-free perovskite variants and new ideas (e.g., recycling)
- Tandem and multijunction devices, including perovskite–silicon, perovskite–CIGS, perovskite–perovskite, perovskite–OPV, perovskite–quantum dot, and combinations thereof
- Niche applications, including flexible and lightweight perovskite solar cells
- Technoeconomic, energy yield, machine learning, and other modeling studies on the feasibility of commercializing perovskite photovoltaics
- IEC certifications and testing such as IEC 61215, IEC 61646 and more.



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Special Issue