Special Issue

Sustainability of Perovskite Solar Cells

Message from the Guest Editor

Hybrid halide perovskites (ABX3) have recently attracted great attention as promising candidates for near-future solar power generation. Their excellent optoelectronic properties, combined with their low material cost, ease of manufacturing, and remarkable flexibility in the lattice structure, have opened a plethora of possibilities in crystal design. However, their long-term stability remains a challenge for the commercialization of perovskite solar cells. Recently, 3D/2D bilayer structures have emerged as a tangibly credible path to combine high efficiency and stability. In addition, several works have also focused on interlayer modifications with the goal of increasing both the efficiency and stability. Therefore, this Special Issue aims to highlight the novel field of applied research related to perovskite sustainability studies. Topics of interest include, but are not limited to, the following: perovskite formulation, intermediate transporting layers, efficiency, durability, elucidation of mechanisms, deposition processes, and device architectures. We look forward to receiving works in the form of reviews, regular research papers, and short communications.

Guest Editor

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