

Special Issue for Stability of Organic and Perovskite solar Cell

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TITLE: Progresses and Challenges of Improvement of

Stability of Organic and Perovskite solar Cell

Aim & Scope:

Organic and perovskite solar cells are very promising solar cell technology especially to obtain low cost efficient solar modules. Organic photovoltaics (OPVs) and perovskite solar cells (PSCs) have significant potential source of clean electricity for the future. However, the large-scale OPVs and PSCs is currently limited by their stability. Initial reports indicate that the required lifetime of the OPVs and PSCs should be 20 years for theoretically feasible. However, progress in this area has been slow, because the complex and hierarchical degradation paths involved can only be elucidated by applying complementary chemical and physical characterization techniques.

In this special issue, it will be evaluated that manuscript can elucidate the complex, hierarchical degradation pathways of OPVs and PSCs, follow ISOS test protocols during indoor and outdoor stability test of solar cell, develop innovative solutions for fabricating stable OPVs and PSCs devices, with life time longer life times.

Keyword: Organic solar cell, perovskite solar cell, stability of solar cell , ISOS protocols, degradation of perovskite solar cells, degradation of organic solar cell, improvement of stability of organic solar cell

Subtopics:

Potential topics include, but are not limited to:

1. Novel encapsulation methods to improve stability of OPVs and PSCs.
2. Large area fabrication of OPVs and PSCs with roll to roll and inkjet printing techniques

Schedule:

Manuscript Submission deadline: August 31, 2020

Peer Review Due: From submission date to October 15, 2020 (One month to reviewers for submitting their comments/suggestions on submitted manuscript)

Revision Due: November 15, 2020

Notification of acceptance by the Guest Editor: December 1, 2020

Final manuscripts due: December 30, 2020