

Special Issue on
Stability Issues in Organic, Perovskite, and Hybrid Solar Cells

CALL FOR PAPERS

Organic, perovskite, and hybrid photovoltaic (PV) are emerging as a potential alternative to silicon PVs. Nonsilicon PVs already achieved comparable efficiencies, of particular interest, are based on organic and perovskite. This class of solar cells has the potential to be a major commercialized device, if the problem with the premature aging can be resolved. Current scientific research is focused on the degradation analysis of these solar cells. Organic and perovskite materials are prone to moisture and air. They also suffer severely from internal degradation namely ion (Pb^+ , I^-) migration or metal diffusion with applied electric field. Therefore, it is an urgent topic to be focused because these solar cells can reduce the cost of future PV technology and overdependence on Si.

Potential topics include but are not limited to the following:

- Modelling, simulation, fabrication, and characterization of organic, perovskite, and hybrid PVs
- Degradation study of organic, perovskite, and hybrid PVs
- Stability issues and challenges of organic, perovskite, and hybrid PVs
- Method of improving stability of organic, perovskite, and hybrid PVs
- Encapsulations for perovskite solar cells
- Flexible encapsulations for PVs
- Thin film encapsulation for PVs
- Control stability studies for perovskite PVs

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