Special Issue

Advances in Cadmium Telluride (CdTe) Thin Film Photovoltaic Solar Cells

Message from the Guest Editor

The research on thin film CdTe photovoltaic solar cells has been re-gaining momentum in recent years, due to commercial advances made with regard to CdTe technology. CdTe solar panels are now at parity with poly-crystalline silicon for performance and cost. The recent work in this area appears to focus on increasing absorber carrier density and lifetime, engineering of the material bandgaps for the enhanced light capture and optimization of the oxide/telluride buffer layers for the front/back surface of the CdTe device. This Special Issue aims to serve an improved understanding of the key issues with the state-of-the art CdTe solar cells to enable further advancement of R&D of the CdTe photovoltaic technology. Not only experimental reports on the CdTe device performance and scaling-up but also theoretical papers, particularly on band-alignment and doping issues, are warmly welcome.

Guest Editor

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