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Photovoltaics Materials Science

Guest Editor:

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Message from the Guest Editor

Increasingly sophisticated device architectures are being employed to improve the performance of silicon, perovskite, and chalcogenide solar photovoltaic devices. Recent advances in passivation layers and carrier selective contacts for silicon, absorber composition, and charge transport layers for perovskites, selenium alloving, and group V doping for CdTe have been demonstrated. These have been enabled by investigations into the underlying microstructure and composition of these devices. Understanding and controlling the material properties are critical to further improving device efficiencies. This Special Issue highlights cutting-edge research in solar cell materials science, which is driving the next generation of devices. Submissions covering all aspects of solar cell material science and cell technologies are encouraged. Investigations focusing on novel interfaces, structures, compositions, and advanced simulation techniques are of particular interest.











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Message from the Editor-in-Chief

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