



Growth and Properties of Photovoltaic Materials

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Message from the Guest Editors

Dear Colleagues,

The "Growth and Properties of Photovoltaic Materials" Special Issue serves as a pivotal platform for the exploration of solar energy technology. Crafting high-performance photovoltaic materials is a delicate process of achieving crystalline perfection while preserving energy efficiency. Articles within this Special Issue illuminate crystal growth techniques, from vapor deposition to solution-based methods, crucial for robust solar cell development.

This exploration extends to core material properties. Material characterization, covering structural, optical, and electrical aspects, unveils molecular intricacies, paving the way for improved photovoltaic efficiency. Investigating semiconductor properties provides insights into charge separation and transport mechanisms, essential to solar cell operation.

The Special Issue also highlights thin-film solar cells and sustainable technologies for energy conversion. We invite experts, scholars, and practitioners to contribute their findings and insights, bridging the gap between theory and practical applications in the dynamic world of photovoltaic materials.





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Message from the Editor-in-Chief

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