



materials



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New Trends in Solar Energy Materials: Characterization, Properties and Applications

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Message from the Guest Editors

Photovoltaics (PV) is a key technology option for realizing a decarbonized power sector and sustainable energy supply. This PV technology is very versatile, and hence it can be deployed in a modular way almost everywhere on the planet. Regardless of how fast energy prices increase in the future, and the reasons behind these increases, PV is one of the renewable energies that not only offers the stabilization of but even a reduction in future prices.

The main purpose of this Special Issue is to give an overview of the current trends in energy materials for investigation and innovation in PV technology that allow the development of more efficient products, within which all aspects of the value chain are covered. To be successful, cutting-edge materials involved in those technologies need to be implemented in novel solutions. Recently, low-dimensional systems based on graphene-related, organic and semiconductor materials have attracted interest as a way to cope with PV system challenges.

This Special Issue will be dedicated to all solar energy materials. Full papers, communications, and reviews are all welcome.



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Special issue



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Message from the Editor-in-Chief

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