Special Issue

Advances Technologies in Solar Energy Storage

Message from the Guest Editor

The aim of this Special Issue encompasses the ability of parametric clear-sky solar irradiance models to both estimate and accurately separate global horizontal solar irradiance into its fundamental components of beam and diffuse, increasing the accuracy of solar energy production estimation by developing clear-sky solar irradiance models tuned for properly capturing the effect of aerosols at a high concentration in the atmosphere but, also, the thermal degradation of photovoltaic (PV) cells in time. The aim of this issue is to explore a range of testing methods for such a monitoring, including scanning electron microscopy (SEM), atomic force microscopy (AFM), and nondestructive testing (NDT) involving optical coherence tomography (OCT) and hardness measurements. The topics of interest include the development of related methods and devices (with analytical approaches, simulations, and/or experiments), their optimization, and their inclusion in dedicated systems for applications. The forum is open to all researchers in the abovementioned fields. All types of contributions, e.g., research papers, reviews, and communications, are welcome.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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