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Advances in Emerging Solar Cell Technologies

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Message from the Guest Editor

Dear Colleagues,

Solar energy is considered one of the most promising energy sources that is capable of meeting our rapidly growing energy demand due to its cleanliness, sustainability, and effectiveness. To date, intensive efforts have been made to develop efficient, stable, and low-cost photovoltaic (PV) devices. This has resulted in various types of emerging solar cells, such as organic solar cells, dye-sensitized solar cells, quantum dot solar cells, and perovskite solar cells, being introduced as suitable alternatives to replace the expensive silicon-based solar cells that are currently dominating the PV market. Despite this excellent progress, there is still plenty of room to further improve the performance, scalability, and long-term stability of those cutting-edge systems.

This Special Issue on “Advances in Emerging Solar Cell Technologies” is dedicated to highlighting the recent advances made in the development of state-of-the-art photovoltaic technologies. Original research articles based on theoretical/experimental studies and critical reviews are highly welcomed.

Dr. Abdulaziz Bati
Guest Editor



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Special Issue



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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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