

Special Issue

Si and Compound Semiconductor Based High Power Density Solar Cells and PV Modules and Their Applications

Message from the Guest Editor

This issue focuses on Si and compound-based high power density solar cells and PV modules and their applications. The fabrication process, machine control, and power performance evaluation of Bifacial, Half-cut, and Gapless cells and modules with classical boron to Ga doped bigger size of substrates would be highly recommended for the topics. It includes their unique processes for higher efficiency and quality control to guarantee long lifetimes. Power performance of BIPVs, BAPVs, Floating and Marine PVs would be examples of extensions of the issue. Applications would also cover micro roof-top to large scale of PVs connected with other renewable energy resources such as ESS, wind power and/or fuel cell. Special focuses would be on failure analysis, reliability, and MRO (Maintenance, Repair, and Operation) for a durable convergence power system under the demand response control to achieve RE100 energy network within a limited time for a sustainable earth.

Guest Editor

Prof. Dr. Hyung Keun Ahn

Next Generation Photovoltaic Module and Power System Research Center / Department of Electrical and Electronics Engineering, Konkuk University, Seoul 05029, Korea

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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