



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

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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.





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Message from the Editor-in-Chief

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