

Special Issue

Reliability of Power Electronic Systems

Message from the Guest Editor

As power electronic systems have gradually gained an important status, their reliability has become an important issue, since they are regarded as one of the most unreliable parts in a variety of whole systems. A paradigm shift in reliability research in power electronics is going on in terms of the design methodologies, reliability testing concepts, and robustness validation approaches of power electronic components to systems. Prospective authors are invited to submit original contributions or survey papers for publication in *Energies*. Topics of interest for this Special Issue include, but are not limited to: Design for reliability in power electronics; Stressors and failure mechanisms of power electronic components and systems; Robustness and reliability validation testing; Lifetime modeling and prediction of power electronic components and systems; Life cycle cost analysis of power electronic systems; Condition monitoring in power electronic systems; Optimization for reliability in power electronics; Reliability in emerging power devices (e.g. SiC, GaN); Fault-tolerant strategies and advanced control of power electronic converters and other related topics.

Guest Editor

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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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