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Increasing the Lifetime of Photovoltaics Systems: Advanced Materials, Monitoring, O&M and Energy Modeling

Guest Editors:

Prof. Dr. George E. Georghiou

Dr. George Makrides

Dr. Joshua S. Stein

Dr. Marios Theristis

Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Increasing the lifetime and reducing performance degradation of PV systems is vital for making PV the most cost-competitive energy resource and to transform our energy systems. To achieve this goal, we must improve the durability and reliability of PV modules and BOS equipment and respond quickly and intelligently to operational issues. New materials and manufacturing methods can increase the lifetime of PV modules in the field, but may need to be optimized for different climates. Advanced monitoring techniques and fault detection protocols significantly improve the availability of grid-connected photovoltaic (PV) systems, hence lowering investment cost, levelized cost of energy (LCOE), benefiting PV competitiveness.

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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