

Special Issue

Integration of Renewable Energy and Plug-In Electric Vehicles into Power Networks

Message from the Guest Editors

The growth and development of renewable energy sources, especially solar energy, has become increasingly evident in recent years. However, power generation in these sources is intermittent due to its dependence on climatic conditions.

On the other hand, today, the market of plug-in electric vehicles is more popular than ever and is moving with astonishing progress. One of the main reasons for this tangible progress is the important challenge of traditional vehicles, namely environmental pollution, along with the development and price reduction in technology related to PEVs.

Hence, it is important to propose new strategies for optimal power management called smart charging. In fact, electric vehicles are used about 10% of their lifetime for transportation on average, and the rest are parked, which increases their availability for smart charging. In other words, smart charging means the cooperation between the PV power production, PEV charging, and existing electricity consumption in a way that brings technical and economic benefits.

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Deadline for manuscript submissions

closed (28 July 2023)



Energies

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Impact Factor 3.2
CiteScore 7.3



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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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