Special Issue

Smart V2G for the Smart Grid

Message from the Guest Editor

In this special issue we invite high quality submissions that advance the state-of-the-art in such technology and the utilization of V2G in the smart grid. Given the status of commercial services, papers are encouraged that consider issues impacting the commercial viability of V2G such as battery degradation, round-trip efficiencies and AC V2G technology. As such services develop, technologies and systems will be required that are able to predict and exploit the availability of vehicle batteries to act as energy sinks and sources that are inherently mobile, distributed and uncertain. Papers are particularly welcome therefore that utilize technologies such as machine learning to help predict user behavior, vehicle movements and energy availability in uncertain environments. Papers are also welcome that consider how V2G may operate within a microgrid that may also include local renewable generation, stationary batteries and Vehicle-to-Building (V2B) or Vehicle-to-Everything (V2X) capabilities.

- Vehicle-to-grid
- vehicle-to-building
- vehicle-to-everything
- smart grid
- microgrids
- machine learning
- artificial intelligence

Guest Editor

Dr. Rob Shipman

Faculty of Engineering, University of Nottingham, Nottingham, UK

Deadline for manuscript submissions

closed (31 October 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/61275

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI