Special Issue

PHEVs: Latest Advances and Prospects

Message from the Guest Editor

Plug-In Hybrid Electric Vehicles (PHEVs) can use both electric energy and liquid fuel energy. There are many advantages to such a vehicle but their usefulness is dependent on component sizing and system design, which vary among current models. Data on customer use have been collected by the USDOE Idaho National Labs and vehicle manufacturers but have not been disseminated in an understandable fashion. In addition, there is a lot of misunderstanding surrounding the usefulness of the PHEV concept because of biases towards pure EVs being the final solution towards achieving Zero CO2. The focus of this Special Issue is on (but is not limited to):

- PowerTrain simplification in PHEVs
- low-cost charging infrastructure for PHEVs
- low-cost PHEV system vs. other concepts
- Zero CO2 PHEVs
- direct solar and wind charging
- energy collection and management
- energy reliability and durability
- separation of energy and power in vehicle design
- energy storage for reliable solar and wind systems by managed PHEVs

Guest Editor

Prof. Dr. Andrew A. Frank
Mechanical and Aeronautical Engineering, University of California, Davis, CA, USA

Deadline for manuscript submissions

closed (29 February 2020)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/26583

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