Special Issue

Maximizing the Use of Batteries of Electric Vehicles

Message from the Guest Editors

Aiming to present electric vehicles (EV) as the ecologic alternative to internal combustion engine vehicles (ICEV) in terms of power and range to ease the transition for final users, car manufacturers are forced to install huge batteries to make it possible to drive for about 300 km or more. However, most of the trips are well beyond this limit, which means that batteries are mostly oversized and misused all through the EV lifecycle just to fulfill the needs of few specific days. Trying to maximize the use of these batteries, this Special Issue invites research and review articles on (but not limited to) the following topics:

- EV circular economy streams and businesses;
- State of health and rest of useful time studies;
- EV sharing use and economy such as:
  - Carsharing;
  - V2G services;
- Life cycle assessments;
- EV battery life extension;
- End of life of EVs and of their batteries.

Prof. Dr. Beatriz Amante

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Deadline for manuscript submissions

closed (29 March 2024)

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Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

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