



Recent Advances in Novel Permanent Magnet and Magnetless Machines and Control for Electric Vehicles

Guest Editors:

Prof. Dr. Ziqiang Zhu

Prof. Dr. C. C. Chan

Prof. Dr. Zhongze Wu

Prof. Dr. Yacine Amara

Deadline for manuscript
submissions:
closed (28 February 2023)

Message from the Guest Editors

Dear Colleagues,

The world is heading toward electrification and zero-net greenhouse gas emissions, and electrical machines and drives are a key enabling technology for electric, hybrid, and fuel cell vehicles (EVs).

We are organizing this 3rd issue on the same topic since permanent magnet (PM) machines exhibit high torque density and high efficiency and are eminently suitable for EVs. We particularly invite potential authors to submit papers on magnetless machines to address the resource and price issues of rare earth materials. These include PM-assisted synchronous machines, induction machines, wound field machines, ferrite magnet machines, as well as hybrid exciting machines.

Prospective authors are invited to submit original contributions that include but are not limited to the following topics of interest:

- PM-assisted synchronous machines;
- Induction machines;
- Wound field machines;
- Ferrite magnet machines;
- Hybrid excited machines;
- Novel PM machine topologies;
- Flux modulated PM machines;
- Magnetically geared PM machines;
- Memory PM machines;





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Joeri Van Mierlo

MOBI—Electromobility Research
Centre, Department of Electrical
Engineering and Energy
Technology, Faculty of
Engineering Sciences, Vrije
Universiteit Brussel, 1050 Brussel,
Belgium

Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [Ei Compindex](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Transportation Science and Technology*) / CiteScore - Q2 (*Automotive Engineering*)

Contact Us

World Electric Vehicle Journal
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/wevj
wevj@mdpi.com