

## Special Issue

# Electrical Motor Drives for Electric Vehicle

### Message from the Guest Editors

Dear colleagues, Electric vehicles use one or more motors to produce torque. Each motor is supplied with energy by dedicated electronic power converters. From a vehicle's builder's point of view, this is the car's powertrain. With various improvements, the motor and power converter are built in the same frame, reducing the cooling effort and minimizing noise and electromagnetic interference. Achieving this requires an interdisciplinary approach involving specialists in motor development, power converters, electronic control, sensors, liquid cooling systems, mechanics, and electromagnetic compatibility. Welcome to this Special Issue, where we compile articles from specialists developing electric motors and drives for electric traction vehicles. This includes integrated solutions for small cars and distributed solutions for high-power vehicles such as trams, trolleybuses, electric buses, and trucks.

---

### Guest Editors

Dr. Emil Tudor

Dr. Lucian Pîslaru-Dănescu

Dr. Mihaita-Gabriel Neacsu

Prof. Dr. Zhongze Wu

---

### Deadline for manuscript submissions

closed (30 June 2025)



## World Electric Vehicle Journal

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.6  
CiteScore 5.0



[mdpi.com/si/215496](https://mdpi.com/si/215496)

*World Electric Vehicle Journal*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[wevj@mdpi.com](mailto:wevj@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[wevj](https://wevj.mdpi.com)





# World Electric Vehicle Journal

---

an Open Access Journal  
Published by MDPI

---

Impact Factor 2.6  
CiteScore 5.0



[mdpi.com/journal/  
wevj](https://mdpi.com/journal/wevj)



## About the Journal

### 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.

---

### 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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /  
CiteScore - Q2 (Automotive Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).