

## Special Issue

# Towards a Sustainable Future: The Role of Electric Vehicles and Smart Grids in the Energy Transition

### Message from the Guest Editors

The integration of Electric Vehicles (EVs) and Smart Grids has the potential to revolutionize the way we produce, distribute, and consume energy. This Special Issue of the Journal of Applied Sciences on "Electric Vehicles and Smart Grids: Green Challenges" aims to bring together the latest research and developments in the field, with a particular focus on addressing the green challenges of our energy system. The topics covered in this Special Issue include (but are not limited to):

- Grid integration and management of renewable energy sources
- Battery technology and charging infrastructure
- Vehicle-to-grid (V2G), vehicle-to-home (V2H) and vehicle-to-vehicle (V2V) technologies
- Smart mobility and electrified transportation systems
- Energy policy and regulation of EVs in smart grids
- Cybersecurity challenges for EVs integration in smart grids
- Standards and interoperability of EV infrastructure systems

For more information on the Special Issue, please visit  
LINK

[https://www.mdpi.com/journal/applsci/special\\_issues/1E66D9F13J](https://www.mdpi.com/journal/applsci/special_issues/1E66D9F13J)

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### Guest Editors

Dr. Arman Goudarzi

Dr. Muhammad Waseem

Dr. Shah Fahad

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### Deadline for manuscript submissions

closed (10 June 2024)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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