

## Special Issue

# Design and Synthesis of Electric Energy Conversion Systems

### Message from the Guest Editors

We invite contributions that investigate energy conversion processes, from theoretical frameworks to experimental validations. Topics of interest include, but are not limited to, the development of high-efficiency power electronics, advancements in electric motor design, novel materials for energy storage and conversion, cutting-edge battery technologies, advances in photovoltaic and thermoelectric systems, and breakthroughs in fuel cell technology. Additionally, studies on integrating renewable energy sources, optimizing energy storage systems, smart grid integration, electric vehicle powertrains, renewable energy interface systems, and developing hybrid energy solutions are highly encouraged. This Special Issue seeks to provide a comprehensive platform for researchers, engineers, and practitioners to share their latest findings about energy conversion systems. By bringing together diverse perspectives from academia and industry, this Special Issue seeks to foster collaboration and innovation, driving the development of next-generation electric energy technologies.

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### Guest Editors

Dr. Jesús Elias Valdez Resendiz

Prof. Dr. Julio Cesar Rosas Caro

Prof. Dr. Jaime Eugenio Arau Roffiel

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### Deadline for manuscript submissions

closed (20 January 2025)



## 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

Prof. Dr. Giulio Nicola Cerullo  
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