

## Special Issue

# Boosting Wind Power Integration

### Message from the Guest Editor

Wind energy is one of the most sustainable and important sources of energy accounting for 21% (591 GW) of the total of the total renewable electricity. Wind power faces important challenges in terms of promotion, development, operations, and maintenance. The hybridization of wind power with other renewable sources, interactions with the smart grid, microgrid development, and the positive impact on the electrical vehicle introduction are some of the hot topic in the wind power sector. This Special Issue is looking for contributions on novel developments in battery hybridization, solar and wind integration, micro and smart grid control, balance of distribution grid using wind power, the use of wind power to reduce carbon emissions, machine learning and deep learning used to optimize operations and maintenance, fault-tolerant control on wind turbines and wind farms, and modeling and experimental analysis. Novel industrial applications will provide comprehensive knowledge on the actual benefits of wind power introduction.

### Guest Editor

Dr. Jordi Cusido

Departament de Projectes i Construcció, Universitat Politècnica de Catalunya, Barcelona, Spain

### Deadline for manuscript submissions

closed (31 March 2022)



## Applied Sciences

an Open Access Journal  
by MDPI

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/58412](https://mdpi.com/si/58412)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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

[applsci](https://doi.org/10.3390/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## 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.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )