

## Special Issue

# Symmetry in Renewable Energy and Power Systems

### Message from the Guest Editors

This Special Issue invites researchers to submit original research papers and review articles related to renewable energy and power systems in which theoretical or practical issues of symmetry are considered. Applied case studies are especially welcome. The topics of interest include but are not limited to:

- Symmetry in the topology of power grids;
- Symmetry in multiphase/polyphase power systems. Power network synchronization;
- Symmetric and asymmetric components;
- Symmetrical and asymmetrical faults in power systems;
- Symmetry analysis of phase sequence arrangements of multicircuit overhead lines;
- Symmetry studies of electrical signals using signal processing methods (FFT, DFT, STFT, WT, etc.);
- Symmetry in power electronics devices and renewable energy components;
- Symmetry in renewable energy systems (including smart-grids and micro-grids);
- Symmetrical analysis of power plant layouts and location (including wind farms and photovoltaic plants);
- Algorithms for studying symmetry in renewable energy and power systems.

Prof. Raúl Baños

---

### Guest Editors

Dr. Raúl Baños Navarro

Department of Engineering, Electrical Engineering section, University of Almería, E-04120 Almería, Spain

Prof. Dr. Alfredo Alcayde

Department of Engineering, Universidad de Almería, La Cañada de San Urbano s/n, 04120 Almería, Spain

---

### Deadline for manuscript submissions

closed (30 September 2020)



## Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.3



[mdpi.com/si/28068](https://mdpi.com/si/28068)

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

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





# Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.3



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



## About the Journal

### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

---

### Editor-in-Chief

Prof. Dr. Sergei Odintsov  
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC),  
C. Can Magrans s/n, 08193 Barcelona, Spain

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1  
(General Mathematics)