



*energies*



an Open Access Journal by MDPI

## Active Power Filters and Power Quality

Guest Editor:

**Prof. Dr. Marcin Maciążek**

Electrical Engineering and  
Computer Science Department,  
Faculty of Electrical Engineering,  
Silesian University of Technology,  
44-100 Gliwice, Poland

Deadline for manuscript  
submissions:

**closed (31 May 2022)**

### Message from the Guest Editor

Dear Colleagues,

The modern world is full of goods and electric energy is just one of them. Producers want to sell goods and clients want to buy, but, of course, energy should be of good quality. Why is quality so important? Products of advanced technology need a stable and clean supply. Disturbances can cause failures, such as hangs in telecommunication devices, additional losses in power lines, increased current in neutral wires, resonance phenomena, and even production shutdowns brought on by improper operation of protection systems. They are mainly caused by nonlinear loads. Their presence in the network is the reason for the deformations of voltage and currents waveforms. At present, a very large number of small nonlinear loads (like phone and computer power supplies, led lights, etc.) cause more stochastic disturbances. The best way to reduce this type of disturbances is the application of active power filters. APFs connected to power systems, depending on control strategy and configuration, can realize higher harmonic reduction, and reactive power compensation or symmetrization in power supply systems.



[mdpi.com/si/49177](https://mdpi.com/si/49177)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

## 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Engineering (miscellaneous)*)

## Contact Us

---

*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://twitter.com/energies_mdpi)