



## Nanofabrication of Superconducting Circuits

Guest Editor:

**Prof. Dr. Michael I. Faley**

Forschungszentrum Jülich,  
Jülich, Germany

Deadline for manuscript  
submissions:

**closed (31 March 2023)**

### Message from the Guest Editor

Superconducting circuits exhibit unique characteristics that are not attainable by conventional semiconductor electronics: quantum limited low noise detection and amplification, dispersion- and losses-free interconnections, as well as the energy efficient ultra-high frequency operation of analog and digital circuits, and the realization of a scalable quantum computer.

The objective of this Special Issue is to present studies in the field of nanoscale superconducting devices, with emphasis on their nanofabrication, testing and theoretical modelling. Therefore, researchers are invited to submit their manuscripts to this Special Issue and contribute their theoretical models, technology development, reviews, and studies.

### Keywords

- nanostructuring
- Josephson junctions
- SQUIDs
- superconducting single photon detectors
- SIS detectors, superconducting bolometers
- qubits



[mdpi.com/si/94297](https://mdpi.com/si/94297)

# Special Issue



## Editor-in-Chief

### Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest edited by leading experts in selected topics of interest.

## 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), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

## Contact Us

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[@electronicsMDPI](https://twitter.com/electronicsMDPI)