## **Special Issue**

## Superconducting Quantum Computing and Devices

## Message from the Guest Editor

Due to its scalability, superconducting qubit based on Josephson junction circuits has become one of the most promising candidates for realizing practical quantum computation and quantum simulation. Although fault-tolerant quantum computing remains a challenge, with the recent demonstrations of quantum advantage, superconducting quantum computation has been stepping into the "noisy intermediate scale quantum" (NISQ) technology era, in which non-errorcorrected gubits are used to implement quantum algorithms and quantum simulations. In order to implement superconducting quantum computing, people have developed many superconducting devices, such as superconducting transmon qubit, high-Q superconducting cavity, tunable coupler, Purcell filter, and Josephson parametric amplifier, which play an essential role in the manipulation and readout of superconducting qubit. This area is continuing to expand. More details, please refer to the following link: https://www.mdpi.com/journal/applsci/special\_issues/S uperconducting\_Quantum\_Computing

### **Guest Editor**

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## Deadline for manuscript submissions

closed (31 March 2023)



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## 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 multidimensional network.

## Editor-in-Chief

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