# Special Issue

# Advanced Technologies of Particle Accelerators and Their Applications

## Message from the Guest Editor

Particle accelerators are indispensable tools in the advancement of today's frontier research and many applications. In recent decades, the development of advanced accelerator technologies and their applications has been impressive. In this Special Issue, we aim to collect some recent research results regarding the fast-developing technology applications in particle accelerators, with the hopes of providing a forum for academic and industrial research; a perfect platform for the dissemination of your research results with the global community. Potential topics include, but are not limited to:

- Plasma-based accelerators;
- Dielectric-structure-based accelerators;
- Energy frontier colliders;
- Novel beam diagnostics;
- Advanced beam manipulation;
- Advanced simulation algorithms;
- Machine learning in accelerator simulations;
- Particle therapy, including VHEE and proton therapy.

## Guest Editor

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## Deadline for manuscript submissions

closed (31 March 2024)

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# 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

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