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System Design and Materials for Accelerators and Compact Accelerator-Driven Neutron Sources

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Message from the Guest Editors

Dear Colleagues,

Particle accelerators and compact accelerator-driven neutron sources play a key role in science, medicine, industry and other fields. The performance improvement of particle accelerators and compact accelerator-driven neutron sources (CANS) is based on the breakthrough and development of related technologies, such as the vacuum, corrosion protection of targets in neutron sources, target/moderator/reflector (TMR) system design, shielding and collimating, radiography system design, beam shaping assembly (BSA) optimization, radiobiological effects, etc.

In this Special Issue, recent advances and development trends in particle accelerators and compact accelerator-driven neutron sources, such as the mitigation of electron multipacting, non-evaporable getter (NEG) coatings, target/moderator/reflector (TMR) system design, shielding and collimating, radiography, beam shaping assembly (BSA) optimization, radiobiological effects, surface analysis and the characterization of related materials used in accelerators and neutron sources, are highlighted and discussed. It is my pleasure to invite you to submit a manuscript for this Special Issue.

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Message from the Editor-in-Chief

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