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Nuclear Materials Fundamentals and Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue invites contributions focusing on advancements in materials of experimental, theoretical, and computational aspects for nuclear applications. The topics of the Special Issue include the materials of fuels, cladding, core structures, pressure vessels, moderator and control components for fission reactors, and the first walls, blankets, insulators, and magnets for fusion reactors. The Special Issue welcomes the subjects of the interaction of neutrons, plasmas, ion beams, electron beams and electromagnetic radiation with materials in nuclear systems. The neutron and charged particle radiation effects in materials, including defects, transmutations, microstructures, phase changes, and macroscopic properties, are also a major concern of this issue.

Deadline for manuscript submissions:

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Special issue



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Message from the Editor-in-Chief

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