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Irradiation Damage Research of Advanced Nuclear Structural Materials

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Message from the Guest Editor

Nuclear reactors cannot function without excellent structural materials, especially the advanced fourth generation fission and fusion reactor. In recent years, based on the development needs of various advanced reactor types, a series of advanced nuclear structural materials have been developed and a lot of research has been carried out, such as ferritic martensitic steel, austenitic steel, high-temperature nickel-based alloy, tungsten alloy, high-temperature refractory alloy, high-entropy alloy, silicon carbide, carbon-based composites and so on. Structural materials will face huge challenges due to the severe service environment.

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Guest Editor



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