Special Issue

Nuclear Materials via Advanced Manufacturing

Message from the Guest Editors

This Special Issue aims to present the latest advances in design, processing, characterization and properties of additively manufactured materials for nuclear fission and fusion applications. Other advanced manufacturing techniques such as high-pressure torsion, surface mechanical grinding/attrition treatment are also welcome. The submission can be either original research articles or review articles. The Special Issue will cover a wide range of topics, including but are not limited to the following:

- Advances in additive manufacturing techniques for nuclear application.
- Mechanical properties and deformation mechanisms of additively manufactured nuclear materials.
- Radiation and thermal effects on additively manufactured nuclear materials.
- Small scale testing for irradiated materials.
- Advanced characterization techniques, such as *in situ* radiation, synchrotron X-ray, neutron diffraction, *in situ* mechanical testing etc.

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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