Special Issue

Experimental Simulation and Characterization of Radiation Damage in Materials

Message from the Guest Editor

The development of new materials for the next generation of advanced nuclear technology brings about the need for suitable irradiation experiments and reliable/reproducible post-irradiation examination (PIE). To improve our knowledge of the comprehensive synergistic effects of individual environmental and material variables, it is necessary to conduct very rigorous and repeatable irradiation experiments evaluated by characterization techniques which provide unique yet reproducible results. At the same time, it is essential to share the latest innovations, developments, and applications effectively and to reach the right professional audience. This Special Issue of Materials aims at advancing the current knowledge in ion irradiation studies and innovative material characterization. Especially welcome are research papers that address ion beam irradiation of materials for functional and structural nuclear components, innovative materials for nuclear applications, and advanced techniques for the characterization of ion beam modified materials. The journal accepts original research papers as well as review articles summarizing recent progress in the field.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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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