

Topical Collection

Measurements, Instrumentation, Sensing and Simulation Techniques for the Detection of Radiation

Message from the Collection Editors

This special issues will host original papers on both, fundamental and applied research and reviews regarding the design, construction and use of instrumentation, methodologies and techniques for the detection of nuclear radiation generated by natural and artificial radionuclides or by nuclear reactions used in several application fields (energy, medicine, industry, security, safety). The papers can be oriented also on: the design and construction of systems for innovative nuclear measurements; the measurements and instrumentation for nuclear plants; the measurements and instrumentation used in nuclear decommissioning or waste management; the applications of radioisotopes in industrial and non-industrial fields; the detection of environmental radioactivity and nuclear metrology; safety and protection from radiation; the geological, archaeological and environmental dating; methods and detection techniques for radioecology; sensing techniques and instrumentation for biomedical application; radiometric measurements including gamma and particle emissions; the development and performance of nuclear instrumentation including radiation spectrometry, dosimetry and novel counting systems.

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