



RADIATION MEASUREMENTS

AUTHOR INFORMATION PACK

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DESCRIPTION

Radiation Measurements provides a forum for the presentation of the latest developments in the broad field of **ionizing radiation detection** and **measurement** and publishes original papers on both fundamental and applied research.

Traditionally the journal has covered methods that comprise solid state nuclear track detectors; spontaneous and stimulated luminescence (including scintillating materials, thermoluminescence, and optically stimulated luminescence); electron spin resonance of natural and synthetic materials; nuclear magnetic resonance (including ferrous sulfate and polymer gels), and superheated emulsions (including superheated drop and bubble detectors). Physics, design and performance of radiation measurements, including computational modelling such as Monte Carlo simulations, are of relevance to the journal, as well as studies of energy-transfer phenomena, track physics and microdosimetry. Measurements and calculations of fundamental physical data, such as cross sections, reaction yields and attenuation coefficients, are acceptable within studies of radiation detection and dosimetry.

Applications of interest to the journal are: personal dosimetry (including dosimetric quantities, active/electronic and passive monitoring techniques for photon, neutron and charged-particle exposures); environmental dosimetry (including methodological advances and predictive models related to radon, but generally excluding local survey results of radon in water wells or the indoor environment with the main aim of establishing population doses); cosmic and high-energy radiation measurements (including dosimetry, space radiation effects, and single event upsets); dosimetry-based archaeological and geological dating; accident and retrospective dosimetry (including activation detectors), and dosimetry and measurements related to medical applications.

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(Luminescence dating, quartz luminescence, feldspar luminescence, luminescence equipment)

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(Radiation protection, solid state nuclear track detectors, radon)

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