Special Issue

Detectors for Assessment of Natural Radioactivity in Drinking Water: Materials and Method

Message from the Guest Editors

The presence of radionuclides in water constitutes a health risk to the population because the consumption of such water increases the likelihood of cancer. Experimental analysis will enhance the detection of significant radionuclides that cause harm to the population and stimulate remediation. Among the various analytical techniques for assessment of natural radioactivity in drinking water, alpha and gamma spectrometry are employed to obtain the specific activity of alpha and gamma radionuclides, respectively; liquid scintillation counting (LSC) can be used to quantify the activity concentration of tritium, radon, and gross alpha and beta; total alpha/beta counting, with the thick source method, can be used for the gross alpha and beta specific activity evaluation; and emanometry, in the H2O setup configuration, can be employed to estimate the gas radon activity concentration.

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Deadline for manuscript submissions

closed (20 November 2021)

Materials

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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/37910

Materials
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