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### Application of tracer technique in remediation of Sr(II) polluted waters

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#### Abstract

[en] Humic substances are ubiquitous in the environment, occurring in all soils, waters, and sediments of the ecosphere. One of their most striking characteristics is the ability to interact with metal ions, oxides, hydroxides, mineral and organic compounds, including toxic pollutants to form watersoluble and insoluble complexes. Humic Acid as a metal chelator has been applied for the removal of Cr(VI), Cd(II), Al(III), Pb(II) and Zn(II). The present work explores the potentiality of humic acid in separation of Sr(II) from Low Level Radioactive Waste (LLRW) with a practical outlook to decontaminate such hazardous effluents. Literature survey reveals that Sr(II) and its radioactive counterparts have been separated from aqueous solutions employing seeds of *Ocimum basilicum*, eggshell waste, along with a diverse range of microbial cultures

#### Primary Subject

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#### Source

Lahiri, Susanta (ed.) (Saha Institute of Nuclear Physics, Kolkata (India)); Saha Institute of Nuclear Physics, Kolkata (India); International Atomic Energy Agency, Vienna (International Atomic Energy Agency (IAEA)); 358 p; 11 Nov 2018; p. 105-106; ARCEBS-2018: 4. international conference on application of radiotracers and energetic beams in sciences; Kolkata (India); 11-17 Nov 2018; 3 refs., 2 figs., 1 tab.

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