Special Issue

Potentially Toxic Elements and Agrochemicals: Prevalence, Health Implications, and Sustainable Management of Agroecosystems

Message from the Guest Editors

Potentially toxic elements (PTE) are not only threatening water and soil bodies but are also a big issue in agroecosystem. Vegetables and cereal crops grown in contaminated regions are one of the greatest threats to food security and human health, as they can readily accumulate elevated levels (beyond recommended limits) in their edible and inedible (fodder) parts. Similarly, pesticides are widely used in producing food to control pests. Accumulated pesticide residues in food products have been associated with a broad variety of human health hazards. Therefore, this issue of food contamination has become a global concern. A better understanding of the regulation mechanisms of crop PTE and pesticide accumulation is a prerequisite to improving the safety of the food chain. The main purpose of this Special Issue is to provide the international scientific community with detailed knowledge of the distribution and accumulation of PTE and pesticides in agricultural soil and different crops in several countries around the world and state-of-the-art remediation approaches to manage crop and soil pollution.

Guest Editors

Dr. Prafulla Kumar Sahoo

Department of Environmental Science and Technology, Central University of Punjab, Bathinda 151401, Punjab, India

Prof. Dr. Mike A. Powell

Department of Renewable Resources, University of Alberta, Edmonton, AB T6G 2R3, Canada

Deadline for manuscript submissions

closed (31 March 2024)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/144179

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

