

Special Issue

Effects of Wastewater and Pesticides on Soil Fertility and Microbiological Activity

Message from the Guest Editors

Unsustainable agricultural practices have a significant impact on soil pollution for diverse reasons; among these, the application of wastewater (untreated/treated) for irrigation and the use of excessive pesticides are key causes of soil pollution in agriculture. The consequence of agricultural soil pollution is the loss of soil fertility. Wastewater comprise a cocktail of pollutants that are both naturally occurring or man-made and can include chemical contaminants (e.g., nitrogen, bleach, salts, pesticides, metals, toxins produced by bacteria, and human or animal drugs) and biological contaminants. These contaminants have various adverse effects on the development, morphology, and metabolism of soil microorganisms by causing functional disturbances, protein denaturation, the destruction of cell membrane integrity, etc. In particular, soil microbial enzymes are efficient in revealing ecosystem perturbations, and they are very sensitive to agricultural management practices. Therefore, this Special Issue calls for all types of articles, such as original research, opinions, and reviews, are welcome.

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Deadline for manuscript submissions

closed (25 September 2023)



Agriculture

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Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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