Special Issue

Soil Pollution and Remediation in Sustainable Agriculture

Message from the Guest Editor

Soil pollution refers to the presence of a chemical product or substance outside its natural environment and/or in a concentration higher than normal, which has adverse effects on any non-target organism. Currently, there are numerous sources of soil pollution in agricultural activities, such as the use of pesticides (fungicides, insecticides, and herbicides, among others), industrial fertilizers, animal waste, and industrial residues, among others. The main pollutant elements added to the soil with these products are heavy metals, such as arsenic (As), cadmium (Cd), chrome (Cr), copper (Cu), lead (Pb), and zinc (Zn), among others. Even essential heavy metals for plants, such as Cu and Zn, when present in excessive amounts in the soil, inhibit plant development, affect soil biota, and cause the contamination of water sources. Thus, the use of remediation techniques (chemical, physical, and biological, among others) in polluted soils is an important strategy to maintain soil productivity.

Guest Editor

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