



Fertilizer Use, Soil Health and Agricultural Sustainability

Guest Editors:

Dr. Pavel Krasilnikov

Department of Soil Geography,
Lomonosov Moscow State
University, Leninskie Gory 1,
119991 Moscow, Russia

Dr. Miguel A. Taboada

Instituto De Investigación Suelos,
Instituto Nacional de Tecnología
Agropecuaria, Nicolas Repetto y
de los Reseros s/n, Buenos Aires
1686, Argentina

Prof. Dr. Amanullah

Department of Agronomy, The
University of Agriculture,
Peshawar 25130, Pakistan

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Message from the Guest Editors

Humankind has been using chemical (mineral) fertilizers to improve soil fertility and productivity for millennia. Since the 19th century, industrial mineral fertilizers have been increasingly used in agriculture. Their application is believed to be responsible for at least a 50% increase in crop yield in the 20th century. However, the inappropriate use of chemical fertilizers had negative effects on soil health and soil-related ecosystem services. Soil health is defined as the capacity of soil to function as a vital living system, within ecosystem and land-use boundaries, to sustain plant and animal health and productivity, and maintain or improve water and air quality. The major challenge for agricultural sustainability is to conserve ecosystem service delivery while optimizing agricultural yields. This Special Issue addresses the task to find a balance between increasing yields through the use of conventional and novel fertilizers, and the maintenance of soil and environmental health as a basis for the sustainable intensification of the agricultural sector.





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Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

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Agriculture Editorial Office
MDPI, St. Alban-Anlage 66
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