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## **Soil Phosphorus Dynamics: Agronomic and Environmental Impacts**

### **Guest Editor:**

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### **Message from the Guest Editor**

Dear Colleagues,

Phosphorus is an essential element to all known life and an adequate supply is required in agricultural soils to meet the demands for crop growth and grazing animal health. Its use as a fertiliser in agricultural systems across the world has increased crop yields and quality and facilitated intensification. However, as the price of fertilisers continues to rise, farmers are faced with the challenges of managing this resource and promoting nutrient efficiency in their soils.

The agri-environmental landscape has also changed, especially, since the implementation of water quality directives in Europe and on increased consumer demand for sustainably produced food from agriculture. The growing need for economic and environmental sustainability has stimulated interest in efficient P fertiliser utilization and nutrient management on farms that promotes a more targeted and soil specific approach to increase the P supplying capacities of soils under lower P input regimes, and protect against environmental losses.

This Special Issue will focus on “Soil Phosphorus Dynamics: Agronomic and Environmental Impacts”. We welcome novel research, reviews and opinion pieces covering all related topics including soil chemistry, phosphorus cycling, chemical and biologically mediated processes, agronomic P use efficiency, crop uptake, catchment hydrology, alternative fertilisers and products, phosphorus mitigation measures for water quality, soil and catchment scale modelling, in-stream processes, case-studies from the field, and policy positions.

Dr. Karen Daly  
*Guest Editor*



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# **Special Issue**