Special Issue

Nutrient Cycling and Greenhouse Gas Emissions in Agricultural Soil

Message from the Guest Editors

Agricultural crop production today faces many challenges. Balanced and safe food production is only one of the most important factors in agricultural production. Well-planned nutrient replenishment takes into account not only the maximum yield available, but also environmental considerations. Nitrogen is often the most limiting factor in crop production; hence, application of nitrogen fertilizer results in higher biomass yields. The efficiency of nitrogen fertilizer can be increased and losses reduced, by matching supply with crop demand, optimizing split application schemes, changing the form to suit the conditions, and using slow-release fertilizers and inhibitors, while excessive nitrogen fertilizer application can lead to significant N losses. The Special Issue focuses on nutrient cycling in agricultural production. Results of field and laboratory experiments about different agricultural practices minimizing carbon and nutrient losses are welcome, which may contribute to reducing carbon and nitrogen losses in agriculture. All types of articles, such as original research, opinions, and reviews are invited.

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