Special Issue

Advances in Plant Ammonium Nutrient Research

Message from the Guest Editor

Ammonium (NH4+) is one of the main sources of nitrogen in soils, but is usually already toxic at moderate concentrations, especially when used as the sole or main source of nitrogen. Therefore, it is necessary to gain insight into how plants respond to ammonium nutrition and how NH4+ nutrition interacts with environmental factors. This Special Issue will mainly focus on the following two aspects:

- (i) Previous studies have shown that phytohormones (e.g., auxin, gibberellin, etc.), pH, potassium (K+), iron (Fe2+) and nitrate (NO3-) are all involved in regulating plant tolerance to NH4+. How to better improve plant tolerance to NH4+ nutrition and hence plant nitrogen availability has been an issue of concern; thus, this Special Issue focuses on recent advances in plant response (or tolerance) to NH4+ nutrition.
- (ii) Many links between NH4+ nutrition and environmental factors (e.g., CO2 concentration and cadmium toxicity) have been reported; we focus on the interactions between different environmental factors and NH4+ nutrition.

We aim to report recent advances in plant responses to NH4+ nutrition. We welcome original and review papers.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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