



Nitrogen Fertilization in Agriculture: Worldwide Trends and Current Knowledge

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Message from the Guest Editors

Dear Colleagues,

Nitrogen fertilization is an indispensable agricultural practice to increase crop growth and prevent food shortages for a growing population. However, the often, excessive use of nitrogen fertilizers and the increased residual inorganic nitrogen in agroecosystems adversely affect soil health and lead to water and air pollution. This special issue welcomes any new research, reviews, and opinion that address the environmental consequences of excessive nitrogen fertilizer use and/or propose management strategies to overcome such drawbacks while ensuring high-yield and sustainable agriculture. Laboratory and field experiments linking nitrogen fertilization to soil functions and ecosystem services are highlighted in this special issue. In addition, research that proposes site-specific management strategies based on the principle of synchronizing crop nitrogen requirements with nitrogen supply from all sources, including soil and fertilizers, is especially acknowledged.





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Message from the Editor-in-Chief

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