

Special Issue

Soil Microbes and Nutrient Recycling in Agroecosystems

Message from the Guest Editor

For about fifty years, the soil microbial biomass has been studied quantitatively with a focus on C, N and P. However, to what extent it acts as a nutrient reservoir for other plant nutrients is less well known. Synchronising nutrient release by microbes and from microbial biomass with plant nutrient demand remains challenging for farmers. Increasing nutrient use efficiency in sustainable agriculture requires improved quantification of microbial nutrient provision to crops as affected by agronomic means. Scientific knowledge gaps still exist in linking microbial pool size, its stoichiometry, physiology and microbial community composition to improve quantitative predictions of short term nutrient release in arable soils. This Special Issue aims to filling the knowledge gap and improving our understanding of how to manage the soil microbial community as facilitator of plant nutrition to conceptualize soil biological plant nutrition in agriculture. This SI will focus on scientific work dealing with the quantification of the soil microbial biomass as a nutrient pool and facilitator of nutrient release in arable soils.

Guest Editor

Prof. Dr. Florian Wichern

Department of Soil Science and Plant Nutrition, Faculty of Life Sciences, Rhine-Waal University of Applied Sciences, Marie-Curie-Straße 1, 47533 Kleve, Germany

Deadline for manuscript submissions

closed (15 June 2021)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.6



mdpi.com/si/51934

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 7.6



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)