Special Issue

Microbial Nitrogen Cycling

Message from the Guest Editor

Nitrogen (N) is an essential element in biological systems and often limits production in aquatic and terrestrial systems. Its availability at the global scale depends on several nitrogen-transforming reactions mainly carried out by microorganisms. Microbial nitrogen-transforming networks are crucial not only due to their connection to biogeochemical cycles but also because they both attenuate and exacerbate human-induced global change. Articles (original research, commentaries, opinions and reviews) submitted for publication in this Special Issue should, through various interdisciplinary approaches, contribute to a greater understanding of the role of microorganisms in the N-cycle. Topics of interest include, but are not limited to:

- N-cycle pathways (biochemical, molecular biology, microbiological and ecological approaches).
- Nitrogen assimilation, fixation and respiration;
- Nitrogenous gasses emissions and climate change;
- Ammonification/nitrification;
- Dissimilatory nitrate reduction to ammonia;
- Anammox and denitrification;
- Microbial reactions involving nitrogen in human beings.

Guest Editor

Prof. Dr. Rosa María Martínez-Espinosa
Department of Agrochemistry and Biochemistry, Faculty of Science, University of Alicante, E-03080 Alicante, Spain

Deadline for manuscript submissions

closed (30 September 2024)

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

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About the Journal

Message from the Editor-in-Chief

Nitrogen, the element that is intimately associated with essentially all processes on Earth, is the broad focus of a new online, open access journal. The intention of this publication is to offer a venue for research papers, reviews, short notes, and communications that have as a nexus this critical element.

Editor-in-Chief

Prof. Dr. Stephen Macko
Department of Environmental Sciences, University of Virginia, Charlottesville, VA 22903, USA

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.7 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Journal Rank:

CiteScore - Q2 (Agricultural and Biological Sciences (miscellaneous))