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['Nutrient Recycling' The Ecology Of The Nitrogen](#)

Denitrification (forming nitrogen gas) as a way of getting rid of waste from human and intensively farmed animals. This book describes the general processes of the nitrogen cycle, then gives examples of how the cycle is modified under particular ecological and geographical conditions.

[Amazon.com: The Ecology of the Nitrogen Cycle \(Cambridge ...](#)

While some of the world needs to fix nitrogen, other parts are using natural processes of denitrification (forming nitrogen gas) as a way of getting rid of waste from humans and intensively farmed...

[The Ecology of the Nitrogen Cycle - Janet I. Sprent ...](#)

The key role of microbes in nitrogen fixation. How overuse of nitrogen-containing fertilizers can cause algal blooms.

[The nitrogen cycle \(article\) | Ecology | Khan Academy](#)

Suggested Citation: "Importance of Nonsymbiotic Organisms in the Nitrogen Economy of Tropical Soils." National Research Council. 1969.

Biology and Ecology of Nitrogen: Proceedings of a Conference. Washington, DC: The National Academies Press. doi: 10.17226/20509.

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Martínez-Espinosa RM (1), Cole JA, Richardson DJ, Watmough NJ. The nitrogen cycle describes the processes through which nitrogen is converted between its various chemical forms. These transformations involve both biological and abiotic redox processes. The principal processes involved in the nitrogen cycle are nitrogen fixation, nitrification, nitrate assimilation, respiratory reduction of nitrate to ammonia, anaerobic ammonia oxidation (anammox) and denitrification.

[Enzymology and ecology of the nitrogen cycle.](#)

Nitrogen. Bacterial Nitrogen Fixation. Process by which certain bacteria convert nitrogen gas (N₂) to ammonia (NH₃). NH₃. ammonia.

Nitrification. ammonia is converted to nitrate ions (NO₃⁻). NO₂ and NO₃. Nitrites (NO₂) have two oxygen atoms and one nitrogen, while nitrates (NO₃) have three oxygen atoms.

[The Nitrogen Cycle - Ecology Diagram | Quizlet](#)

All cyanobacterial mats that have been investigated have been proven to be diazotrophic, i.e., use atmospheric dinitrogen (N₂) as the source of nitrogen. Many cyanobacteria possess the capacity to fix N₂ and different species have evolved various ways to cope with the sensitivity of nitrogenase toward oxygen which is produced by these oxygenic phototrophs.

[The ecology of nitrogen fixation in cyanobacterial mats](#)

Bo Thamdrup, New Pathways and Processes in the Global Nitrogen Cycle, Annual Review of Ecology, Evolution, and Systematics, 10.1146/annurev-ecolsys-102710-145048, 43, 1, (407-428), (2012). Crossref

[Nitrogen Cycling in Sediments - Microbial Ecology of the ...](#)

Factors influencing the ecology of nitrifying bacteria outlines the enrichment and isolation of the pure cultures of nitrifying bacteria, measurement of nitrification activity, maximum specific growth rate of nitrifiers, affinity of nitrifying bacteria for ammonia and nitrite, inhibition of nitrifiers by high substrate concentration, transformation of carbon compounds by nitrifying bacteria, nitrification at low-oxygen concentrations, starvation mechanisms and biofilm formation, formation of ...

[Biology of the Nitrogen Cycle | ScienceDirect](#)

The source of nitrogen in the nitrogen cycle is found in rocks. True In 2001 the IPCC report concluded that increased CO₂ from human activity is contributing to climate change.

[Ecology and Environmental Science Chapter 5 Flashcards ...](#)

Excretion and decay of animals and plants return nitrogen compounds to the soil and air, and some bacteria in soil decompose nitrogen compounds and return the element to the air. The other principal process of natural nitrogen fixation is that of certain plants and vegetables called legumes.

Nitrogen - Biological and physiological significance ...

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Since the first edition of Nitrogen in the Environment published in 1983, it has been recognized as the standard in the field. In the time since the book first appeared, there has been tremendous...

Nitrogen in the Marine Environment - Google Books

The element nitrogen (N) is an essential nutrient for all organisms, and as a critical component of proteins, N is fundamental to the structures and biochemical processes that define life.

New processes and players in the nitrogen cycle: the ...

When nitrogen fertilizer is applied a small percentage—1 to 2%—is converted to nitrous oxide, which escapes to the atmosphere, where it acts as a powerful greenhouse gas. A rate of 1%/yr would add $\sim 6 \times 10^{12}$ g of nitrous oxide to the atmosphere, doubling the current emissions from agricultural soils globally and negating nearly all of the benefits of additional carbon storage in soil organic matter.

The Futility of Soil Carbon ... - Translational Ecology

Nitrogen-fixing trees in mixed forest systems regulate the ecology of fungal community and phosphorus cycling. Author links open overlay panel Arthur Prudêncio de A. Pereira a Maiele C. Santana b Maurício R.G. Zagatto b Carolina B. Brandani c Jun-Tao Wang d e Jay P. Verma f Brajesh K. Singh e g Elke J.B.N. Cardoso b.

Nitrogen-fixing trees in mixed forest systems regulate the ...

Identifying the drivers of decomposition is critical for understanding carbon cycling dynamics in forest ecosystems. Woody biomass is an important pool of carbon, composed of bark and underlying wood which vary in structure, nutrient concentrations and exposure to the environment.

Habitat-specific effects of bark on wood decomposition ...

As a diazotroph, *Trichodesmium* contributes a large portion of the marine ecosystem's new nitrogen, estimated to produce between 60 and 80 Tg of nitrogen per year. Nitrogen fixed by *Trichodesmium* can either be used directly by the cell, enter the food chain through grazers, be released into dissolved pools, or get exported to the deep sea.

Trichodesmium - Wikipedia

Plants take up protein, as a nitrogen source, and other nutrients in their roots, stems, and aerial tissues (60 – 62). Endophytic bacteria and bacterial communities that fix nitrogen and fight plant diseases have been described (61, 63, 64). Plants may conceivably take up prions from soil or water into their root systems or aerial tissues or become surface contaminated through saliva, urine, feces, and/or decaying CWD-infected carcasses.

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