

On the utilisation of atmospheric nitrogen.

-- Canopy Uptake and Utilization of Atmospheric Pollutant Nitrogen

Nitrogen hydrides

The sequence in industrial utilisation of atmospheric nitrogen is

$$\text{N}_2 \xrightarrow[\text{Haber process}]{\text{H}_2} \text{NH}_3 \xrightarrow[\text{Oxidation process}]{\text{O}_2} \text{NO} \xrightarrow{\text{O}_2 + \text{H}_2\text{O}} \text{HNO}_3(\text{aq})$$

Ammonia is extremely soluble in water.

$$\text{NH}_3(\text{aq}) + \text{H}_2\text{O} = \text{NH}_4^+ + \text{OH}^-$$
$$K_{\text{b}} = \frac{[\text{NH}_4^+][\text{OH}^-]}{[\text{NH}_3]}$$
$$= 1.77 \times 10^{-5} (\text{p}K_{\text{b}} = 4.73)$$

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On the use of epigaeic mosses to biomonitor atmospheric deposition of nitrogen

By contrast, the deposition of pollutant gases has not received an equivalent amount of attention, even though the ecological importance of this process has long been recognised Nilgard 1985; Roelofs et al. Nitrogen fixation is catalyzed by the enzyme nitrogenase, which is inhibited by oxygen.

Monitoring atmospheric nitrogen pollution in Guiyang (SW China) by contrasting use of Cinnamomum Camphora leaves, branch bark and bark as biomonitor

Microalgal mainly cyanobacterial bio-fertilizers are very frequently used in Asian countries like China, Vietnam, India, etc. It can be concluded that vascular plant leaves, branch bark and bark can be used as useful biomonitoring tools for evaluating atmospheric N pollution. Furthermore, it leads to increased leaching of base cations, especially Ca²⁺ and Mg²⁺, and to increased availability of metals Al³⁺ and Fe²⁺.

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This substantial enhancement to the global nitrogen cycle explains how we are able to feed the 6 billion people the planet now holds but is also responsible for large-scale changes in the distribution of nitrogen on the earth.

Monitoring atmospheric nitrogen pollution in Guiyang (SW China) by contrasting use of Cinnamomum Camphora leaves, branch bark and bark as biomonitor

Many microorganisms that fix nitrogen exist only in anaerobic conditions. A diversity of bacteria, in symbiosis such as rhizobia with legumes or free living e.

On the use of epigaeic mosses to biomonitor atmospheric deposition of nitrogen

Rhizobium fix atmospheric nitrogen under low-oxygen pressure, and provide ammonium to plants. Scientists have observed various compounds in outer space that have nitrogen as a component. The tissue N concentrations 0.

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