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A novel phylum of bacteria widespread in oligotrophic marine sediments are capable of oxidizing nitrite to nitrate and could resolve the apparent abundance mismatch ...

The oxidation of nitrite to nitrate as the second step of nitrification is vital for the global nitrogen cycle, and the genus *Nitrospira* is the most widespread nitrite-oxidizing bacteria ...

Nitrification, the oxidation of ammonium to nitrate via nitrite, links nitrogen fixation and nitrogen loss processes, playing key roles in coastal nitrogen cycle. However, few studies ...

Chemolithoautotrophic nitrite-oxidizing bacteria (NOB) are key players of the nitrogen cycle in virtually all oxic habitats including soil, freshwater and marine ecosystems, ...

Nitrite-oxidizing bacteria (NOB) are integral to the global nitrogen cycle, yet their adaptations to acidic environments remain poorly understood. This study introduces ...

Here we report on the biodiversity and abundance of aerobic and anaerobic ammonium-oxidizing bacteria in sediment samples from the Xinyi River, Jinagsu Province (China). The biodiversity ...

Abstract Nitrite/nitrate-dependent anaerobic methane oxidation (n-DAMO) is a crucial link between carbon and nitrogen cycles in estuarine and coastal ecosystems. ...

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