

How is denitrification classified?

Denitrification can be classified in two modes: Autotrophic and Heterotrophic. Inoculum source plays an important role in denitrification and power production. Understanding the molecular mechanism in denitrification can influence the process. Future scope lies in understanding the denitrifying bacterial electroactivity.

Does SB enhance denitrification and power generation in MFC-CW?

It was suggested that SB likely enhanced denitrification and power generation in MFC-CW by improving the electron transfer process. Furthermore, SB exhibited a distinct peak at 590 cm⁻¹, attributed to the stretching vibration of the Fe-O bond, which was aligned with the EDS results (Li et al., 2024).

Can protein-like components improve denitrification performance?

Furthermore, protein-like components could promote microbial activity to enhance denitrification performance (Zhou et al., 2024). Thus, SB could increase microbial abundance and activity by providing bioavailable carbon, facilitating pollutant removal and energy production.

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Does denitrifying MFC improve the degradation of contaminants?

MFC Electrodes created electro-catalytic stress, resulting in the enrichment of exo-electrogenic bacteria responsible for efficient electron transfer. This bio-electrocatalytic activity enhanced the degradation of contaminants. This study shows the benefits of denitrifying MFC over the conventional method.

How is biological denitrification used in industrial wastewater treatment?

The process of biological denitrification is also exploited in industrial wastewater treatment for nitrate removal. Different types of wastewater treatment systems have been used for denitrification, such as rotating biological contactors, soil-aquifer, packed beds, and granular activated carbon (Gayle et al., 1990).

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Thermal power generation is the most important power supply mode in China. In the process of thermal power generation, coal is the most important raw material for combustion.

As a major air pollutant, nitrogen oxides (nox) have a serious impact on human health and environment. While providing energy, container-type gas generating units must also take ...

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Sludge biochar (SB) was a cost-effective electrode for microbial fuel cell-constructed wetlands (MFC-CW). SB-based MFC-CW achieved 95.85 % nitrogen removal and 9.05 mW/m ...

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The process has a high denitrification efficiency and a clean denitrification process while improving the growth rate and activities of microorganisms in ...

A containerized generator enclosure is a highly versatile and innovative solution designed to house and protect generator equipment. It utilizes shipping ...

A fuel cell and microbial technology, applied in biochemical fuel cells, chemical instruments and methods, biological water/sewage treatment, etc., can solve problems such as increased ...

In this study, a novel reactor using a biocathode microbial fuel cell and photocatalysis was designed for simultaneous nitrogen removal and power generation in the absence of organic ...

The optimization control of the selective catalytic reduction (SCR) denitrification system holds significant importance in the power generation industry. This paper presents an ...

Reverse electrodialysis (RED) is a method of power generation that converts the energy of salt difference between two solutions of different concentrations into electrical energy. There is a ...

CSE-HPSCR system is a denitrification equipment for low-speed engines designed by CSE, which can effectively reduce the content of NOx emissions.

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Container power generation and denitrification

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