

The behavior of nanoscale zerovalent iron in aqueous phases

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Speaker

Bae, Sungjun
Associate Professor, Konkuk University

Abstract

- Nanoscale zerovalent iron (NZVI) is one of the most extensively studied nanomaterials in the fields of wastewater treatment and remediation of soil and groundwater.
- However, rapid oxidative transformations of NZVI can result in reduced NZVI reactivity.
- The aim of this talk is to discuss the nature of the NZVI passivation processes that occur and the passivation byproducts that form in various environments

The seminar will be in English

Occurrence, detection, and distribution of microplastic and - associated ARGs in the Upper Region of Han River

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Speaker

Cho, Si-Kyung
Associate Professor, Dongguk University

Abstract

- Microplastics (MPs) and antibiotic resistance genes (ARGs) are considered as emerging pollutants and have received increasing attention due to their potential risk to aquatic ecosystems and human health.
- MPs can serve as hotspots and efficient carriers for ARGs through the formation of biofilm.
- The occurrence, detection, and distribution of MPs and - associated ARGs were investigated at the Paldang reservoir in the Han River system

The seminar will be in English.