

# The behavior of nanoscale zerovalent iron in aqueous phases

© 2023. 3. 17.(Fri), 16:00~17:15

© Bldg. 110 Rm. N103

## 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

© 2023. 3. 17.(Fri), 16:00~17:15

© Bldg. 110 Rm. N103

## 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.