NAME Lee, Do Gyun

Position Associate Professor

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Degree

- 2004 B.S. Civil and Environmental Engineering, Korea University
- 2006 M.S. Civil and Environmental Engineering, University of California-Berkeley
- 2012 Ph.D. Civil Engineering, Texas A&M University-College Station

Experience

- 2015~present Assistant Professor, Incheon National University
- 2015~2015 Postdoctoral Fellow, Bloomberg School of Public health, Johns Hopkins University
- 2012~2015 Associate/Assistant Specialist, Earth Research Institute, University of California at Santa Barbara
- 2007~2007 Environmental Engineer, Samsung Engineering Corp.
- 2004~2004 Assistant Engineer, Daewoo E&C Corp.

Major

- Contaminants of emerging concern, Environmental Biotechnology, Alternative bioenergy production

Teaching

- Hazardous materials management, environmental microbiology, introduction to bioenergy

Representative Research

- Spatial models of sewer pipe leakage predict the occurrence of wastewater indicators in shallow urban groundwater. 2017. Environmental Science and Technology.
- Cultivation of lipid-producing bacteria with lignocellulosic biomass: effects of inhibitory compounds of lignocellulosic hydrolysates. 2014. Bioresource Technology

Researches

- Development of load duration curve for nitrate in surface waters at ungagged control points: a case study on Carters and Burton Creeks, Texas. 2016. Fresenius Environmental Bulletin.
- Wastewater compounds in urban shallow groundwater wells correspond to exfiltration probabilities of nearby sewers. 2015. Water Research.
- Removal of triclosan in nitrifying activated sludge: effects of ammonia amendment and bioaugmentation. 2015. Chemosphere.
- Application of 13C and 15N stable isotope probing to characterize RDX degrading microbial communities under different electron-accepting conditions. 2015. Journal of Hazardous Materials.
- Identification of triclosan-degrading bacteria in a triclosan enrichment culture using stable isotope probing. 2014. Biodegradation.
- Effects of growth substrate on triclosan biodegradation potential of oxygenase-expressing Bacteria. 2013. Chemosphere.
- Application of 13C-stable isotope probing to identify RDX-degrading microorganisms in groundwater. 2013. Environmental Pollution.
- Biodegradation of triclosan by a wastewater microorganism. 2012. Water Research.

Current Research

- Biodegradation and bioremediation of contaminants of emerging concern
- Alternative bioenergy production
- Assessment of wastewater-associated contamination in urban water systems