

2021 Webinar Series on River Basin Environmental Issues

(Webinar 5)

Occurrence and fate of microplastics during treatment of solid waste

Abstract: Microplastics (MPs) pollution in the terrestrial environment and their potential threats to the environment and humans have attracted worldwide attention. It is very important to know the occurrence of MPs in typical solid waste such as excess activated sludge and domestic waste, and their fate during treatments including composting/vermicomposting, anaerobic digestion, incineration and landfilling. Researches have shown that excess activated sludge and domestic waste are reservoirs of MPs, and their residues after treatment are still rich in MPs, which may cause negative effects to soil properties, animal/plant growth, and even human health. The source control of MPs and plastics' use, and the optimization of the treatment process for the waste are greatly expected.

About the speaker



Dr. Cui Guangyu is a postdoctoral researcher of the College of Environmental Science and Engineering, Tongji University, China. He is also the acting secretary of Professional Committee on Rural Waste Management of the China Association of Urban Environmental Sanitation. He received his PhD degree from the Graduate School of Engineering, Gifu University, Japan in March 2019. His research interest focuses on composting/vermicomposting treatment of organic solid waste, especially on the fate and behavior of emerging environmental pollutants including microplastics and antibiotic resistance genes.

ZOOM Meeting

Date: November 26

Time: 15:00 - 16:30

(Japan Time)

Registration:

https://www.green.gifu-u.ac.jp/BWEL/eng/webinar_series.html

Organized by: Promotion Office of Gifu University Rearing Program for Basin Water Environment Leaders (BWEL); River Basin Research Center, Gifu University, Japan

Contact: bwel@green.gifu-u.ac.jp