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Lecture #5

13:00 CET

May 2022

Wednesday 25th

EMERGING POLLUTANTS OF CONCERN IN THE LEACHATE FROM MUNICIPAL SOLID WASTE

Municipal solid waste (MSW) is predominantly disposed by landfill and incineration all over the world. MSW composition is complex and tends to be complicated with the socioeconomic development.

MSW is commonly regarded as a sink of various emerging pollutants related with anthropic activities. Thus, leachate from MSW shall be a source of these emerging pollutants derived from landfills and waste-to-energy plants.

Properties of MSW leachate will be briefly introduced.

As the development of environmental analytical chemistry, recognition of emerging pollutants becomes accessibility and feasibility in MSW leachate. Emerging pollutants in MSW leachate contained heavy metals, endocrine disruptors, antibiotics, antibiotics resistance genes, microplastics, fire retardants, halogenated compounds, Per- and Polyfluoroalkyl Substances and so on in the latest three decades.

This lecture will pierce into the bottleneck of instrumental analysis to quantify these emerging pollutants, and occurrence of thereof in MSW leachate.



Prof. Pinjing HE

Tongji University

China

Dr. Pinjing He is a full professor of College of Environmental Science and Engineering, Head of Institute of Waste Treatment & Reclamation at Tongji University.

He was the vice president of International Waste Working Group (IWWG) in 2013-2014 and a member of IWWG Managing Board since 2011.

He has been the Co-Editor-in-Chief of Waste Management (Elsevier) since 2018, and Editor-in-Chief of Environmental Sanitation Engineering (in Chinese) since 2020. He has been listed in the Elsevier 2014-2021 most cited Chinese researchers in Environmental Sciences.

Publons H-index: 52
(https://publons.com/researcher/2931305/pinjing-he/)

Google scholar H-index: 67
(https://scholar.google.com.hk/citations?user=G35CbvoAAAAJ&hl=zh-CN&oi=ao)