

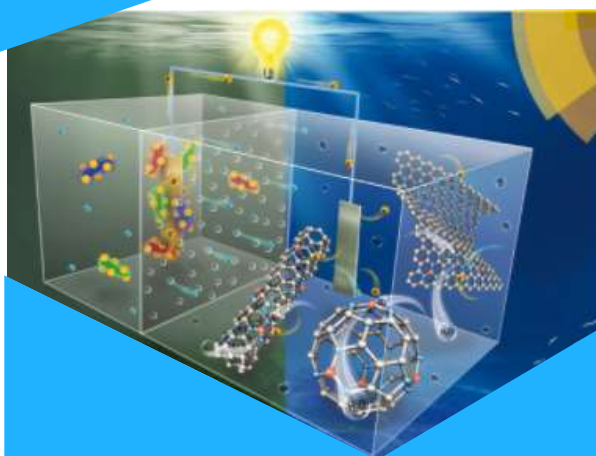
“NEW” Resource Recovery from Wastewater through Advancement of Bioelectrochemical Systems



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Dr. Zhen (Jason) HE is a Professor of Environmental Engineering at **Washington University in St. Louis**. His research focuses on technological solutions for resource recovery from wastes/wastewater. He has published more than 200 journal papers with a H index of 62. He is Co-Editor of Journal of Hazardous Materials, Co-Editor of Journal of Hazardous Materials Letters, and Editor in Chief of Water Environment Research. He was recognized by a Walter L. Huber Civil Engineering Research Prize from ASCE, Green Talent (BMBF, Germany), a 2018 Highly Cited Researcher by Clarivate Analytics, and Dean's Award for Research Excellence at Virginia Tech. In 2020, he was named a Fellow of International Water Association (IWA).

Host: Asst Professor FANG Mingliang



Date: 20th Nov 2020,
10:00-11:00 AM (SG)

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Abstract

Rapid socio-economic growth has created great challenges such as water scarcity, larger nutrient demand and energy shortage. Wastewater offers a promising solution for alleviating these challenges through innovative recovery of value-added resources. It is of great interest to transform conventional energy intensive wastewater treatment to a resource recovery process for reclaiming valuable resources such as nutrients, bioenergy, and high-quality water towards wastewater reuse. Those valuable resources are considered “NEW resources” (Nutrient-Energy-Water) and urge the development of cost-effective reclamation technologies through innovative research. This talk will provide an overview of bioelectrochemical systems and discuss the key barriers that must be addressed to move this technology towards potential applications.