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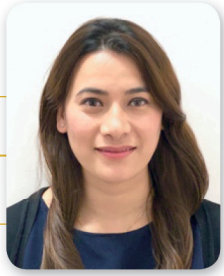
キーワード	Sustainability, Sewage treatment, Pathogens, Sustainable Development Goals (SDGs)		



研究分野

Investigation of Wastewater Treatment Systems feasible for developing countries

Our research team works on the development and assessment of sustainable wastewater treatment systems. We work on our core technology called DHS (Downflow Hanging Sponge) and this system has been proven to be sustainable for developing countries.

Maharjan, N., Nomoto, N., Tagawa, T., Okubo, T., Uemura, S., Khalil, N., & Harada, H. (2018). Assessment of UASB-DHS technology for sewage treatment: A comparative study from a sustainability perspective. *Environmental technology*, 1-8.

・Apart from this, we also investigate the microorganism using advanced quantification methodologies such as qPCR, MiSeq, FISH etc. and understand their role in the wastewater treatment.

Education

・Development of educational tools for engineering students to disseminate the knowledge of SDGs (Global goals from United Nations to be achieved by 2030)

Maharjan Namita, Kyohei Kuroda, Misuzu Okada, Shigeyoshi Nakamura, Hideaki Aburatani, Takashi Yamaguchi, and Makoto Ichitsubo, Generic Skills Assessment Through Implementation of Group Based Learning to Understand SDGs, Journal of Education Practice, Vol.10, No.6, pp.14-23

Makoto Ichitsubo, Hideaki aburatani, Takashi Yamaguchi, Kazuma Fuji, Koichi Murayama, Misuzu Okada, Yukinobu Sugihara, Kyohei Kuroda, **Namita Maharjan**, Hiroyuki Ichitsubo, Kento Suemitsu, James David Molly, Transforming for sustainability: The guide for your action on the SDG 7 & 9 [ISBN: 9784841940305]

技術PR・企業に向けて

DHS is an evolving technology and its application for wastewater treatment of industries, aquaculture, landfills etc. are extensively being researched in different parts of the world such as India, Egypt, Kenya etc.

Besides, the other part of research is based on the SDGs education. The SDGs education is related to all aspects of industries. The knowledge on SDGs could leverage product performance, eco-innovation and eco-design development and promotion of any industries.