Fukushima Yasuhiro

Position/Department/Division/Institution/Organization

Professor/Dep. of Chemical Engineering/Graduate School of Engineering/Tohoku University

Country

Japan

Career history

2002 Doctor of Engineering (The University of Tokyo)
2002 Research Associate (The University of Tokyo)
2004 Assistant Professor (National Cheng Kung University, Taiwan)
2010 Associate Professor (National Cheng Kung University, Taiwan)
2014 Associate Professor (Tohoku University, Japan)
2020 Professor (Tohoku University, Japan)

Awards/Publications

Recent Awards: Technical Award of the Society for Biotechnology, Japan (2019), The 11th ILCAJ Award: Best paper Award (2019)

Selected Papers Related to the Presentation:

1. Ohno, H.; Ikhlayel, M.; Tamura, M.; Nakao, K.; Suzuki K.; Morita K.; Kato Y.; Tomishige K.; **Fukushima Y.**: Direct dimethyl carbonate synthesis from CO2 and methanol catalyzed by CeO2 and assisted by 2-cyanopyridine: A crade-to-gate greenhouse gas emission study, Green Chemistry, 23, 1, p. 457-469, 2021
2. Lu J.-Q.; Kumagai S.; Ohno H.; Kameda T.; Saito Y.; Yoshioka T.; **Fukushima Y.**: Deducing targets of emerging technologies based on ex ante life cycle thinking: case study on a chlorine recovery process for polyvinyl chloride wastes, Resources, Conservation & Recycling, 151, 104500, 2019
3. Ohno H.; Sato H.; **Fukushima Y.**; Configuration of materially retained carbon in our society: A WIO-MFA-based approach for Japan, Environmental Science & Technology, Vol.52 (7), pp. 3899-3907, 2018
4. Ouchida K.; **Fukushima Y.**; Ohara S.; Sugimoto A.; Hirao M.; Kikuchi Y. Integrated Design of Agricultural and Industrial Processes: A Case Study of Combined Sugar and Ethanol Production, AIChE Journal, 2017, Vol.63(2) pp.560-581
5. Chen I.-C.; **Fukushima Y.**; Kikuchi Y.; Hirao M. A graphical representation for

consequential life cycle assessment of future technologies. Part 1: Methodological framework. International Journal of Life Cycle Assessment, 2012 17 (2), 119-125

Areas of expertise

Chemical Systems Design, Technoeconomic Assessment, Life Cycle Assessment