

Hsin-hsin Tung

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Education

PhD	The Pennsylvania State University	2004
MEng	The Pennsylvania State University	1999
MS	National Cheng-Kung University	1996
BA	National Taiwan University	1994

Work

Professor - National Taiwan University (2016-current)
Associate Professor – National Taiwan University (2011-2016)
Assistant Professor – National Taiwan University (2006-2011)
Post-doctoral scholar – Penn State Harrisburg (2004-2006)

Research Interests

- Disinfection and disinfection byproducts
- Biostability of water distribution system
- Microbiome in built environment; Impacts of contaminants to microbial ecology in nature system
- Biological water and wastewater treatment

Professional Service

- Journal editor:
 - Water Supply (2020-current)
 - Journal of Water Supply: Research and Technology AQUA (2016-2020)
- Board member of Water Affairs Organization Taiwan & Taiwan Society of Microbial Ecology

Selected Publications

- MH Yuan, FC Lo, CP Yu, HH Tung, YS Chang, PT Chiueh, HC Huang, CC Chang, CY Guan, CW Wu, ZX Xu, SL Lo (2022) Nature-based solutions for securing contributions of water, food, and energy in an urban environment. *Environ Sci Pollut Res* 29:58222-58230.
- QTP Tran, YH Chuang, S Tan, CH Hsieh, TY Yang, and HH Tung (2021) Degradation Kinetics and Pathways of Isopropyl Alcohol by Microwave-Assisted Oxidation Process. *Industrial & Engineering Chemistry Research*. 60:12461-12473
- YJ Tseng, WWP Lai, HH Tung, and AYC Lin (2020). Pharmaceutical and anticorrosive substance removal by woodchip column reactor: removal process and effects of operational parameters. *Environmental Science: Processes & Impacts* 22:187-196 DOI: 10.1039/c9em00470j
- Quynh Thi Phuong Tran, Chi-Hsu Hsieh, Tung-Yu Yang, Hsin-hsin Tung (2019). Optimizing of isopropyl alcohol degradation by microwave-induced catalytic oxidation process. *Journal of Water Reuse and Desalination*. 9(3):213-224. <https://doi.org/10.2166/wrd.2019.015>
- I-Chieh Chien, Sheng-Pei Wu, Hsien-Chun Ke, Shang-Lien Lo and Hsin-hsin Tung (2018). Comparing ozonation and biofiltration treatment of source water with high cyanobacteria-derived organic matter: the case study of a water treatment plant followed by a small-scale water distribution system. *International Journal of Environmental Research and Public Health* 15(12):2633
- Webber WP Lai, YC Lin, HH Tung, SL Lo, Angela YC Lin (2016) Occurrence of pharmaceuticals and perfluorinated compounds and evaluation of the availability of reclaimed water in Kinmen. *Emerging Contaminants* 2:135-144
- YH Chuang and HH Tung (2016) Effects of ozonation and biological filtration on the formation of nitrogenous disinfection byproduct during chloramination. *Journal of Water Supply: Research and Technology AQUA* 65(2):162-171
- YH Chuang; D McCurry, HH Tung, W Mitch (2015) Formation Pathways and Tradeoffs Between Haloacetamides and Haloacetaldehydes During Combined Chlorination and Chloramination of Lignin Phenols and Natural Waters. *Environmental Science & Technology* 49(24):14432-40
- HC Ke and HH Tung (2015) Disinfection byproduct formation kinetic of a water treatment plant on Kinmen Island. *Water Science and Technology: Water Supply* 15(6):1200-1206
- YH Chuang and HH Tung (2015) Formation of Trichloronitromethane and Dichloroacetonitrile in Natural Waters: Precursor Characterization, Kinetics and Interpretation. *Journal of Hazardous Materials* 283:218-226.