Assistant Professor. Dr. Suwimon Kanchanasuta

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Education:

2013 PhD. Environmental Technology, King Mongkut's University of Technology Thonburi, Thailand

2010 M.Sc., Environmental Technology, King Mongkut's University of Technology North Bangkok, Thailand

2012 B.Sc. (Public Health), Mahidol University, Thailand

Present Employment:

Assistant Professor, Environmental Health Science Department, Faculty of Public Health, Mahidol University, 2015 – present.

Past Employments:

2005-2008: Government officer, Division of Sanitary and Environment, Phranakorn District, Bangkok Metropolitans Administration (BMA), Thailand.

2002-2005 : Government officer, Division of Environmental Impact Assessment, Department of Control and Management of Environmental Quality , Bangkok Metropolitans Administration (BMA), Thailand.

Research Interests and Field of Specialization:

1. Waste Utilization
2. Fermentation technology
3. Air Pollution control and management

Academic Research Projects/Responsibilities:

1. Improvement of biogas yield from glycerol waste combined with decanter cake by partial ozonation pretreatment
2. Improvement of Hydrogen Production Process from Decanter Cake
3. Combined with Glycerol Waste
4. Enhancement of the efficiency of succinic acid production from crude glycerol using pure culture *Actinobacillus succinogenes*

Publication lists:

1. **Kanchanasuta S,** Kittipongpattana K, Pisutpaisal N. Improvement of biohydrogen fermentation by co-digestion of crude glycerol with palm oil decanter cake. Chemical Engineering Transactions 2017; 57: 1963-1968.
2. Rongwang C, Polprasert S, **Kanchanasuta S.** Effect of partial ozonation and thermal pretreatment on biogas production from palm oil decanter cake. Chemical Engineering Transactions 2017; 57: 1987-1992.
3. **Kanchanasuta S**, Sillaparassamee O. (2017) Enhancement of hydrogen and methane production from co-digestion of palm oil decanter cake and crude glycerol using two stage thermophilic and mesophilic fermentation, International Journal of Hydrogen Energy, 42 (5), 3440-3446.
4. **Kanchanasuta S,** Pisutpaisal N. (2017) Improvement of Glycerol Waste Utilization by Co-feedstock with Palm Oil Decanter Cake on Biohydrogen Fermentation, International Journal of Hydrogen Energy, 42 (5), 3447-3453.
5. **Kanchanasuta S,** Pisutpaisal N. (2016) Stability of Clostridium butyricum in biohydrogen production from non-sterile food waste, International Journal of Hydrogen Energy, 42 (5), 3454-3465.
6. **Kanchanasuta S,** Pisutpaisal N. (2016) Waste Utilization of Palm Oil Decanter Cake on Biogas Fermentation, International Journal of Hydrogen Energy, 41 (35), 15661-15666
7. **Kanchanasuta S,** Haosagul S, Pisutpaisal N. (2016) Metabolic Flux Analysis of Hydrogen Production from Rice Starch by Anaerobic Sludge under Varying Organic Loading, Chemical Engineering Transactions, 49, 409-414.
8. **Kanchanasuta S**, Pisutpaisal N. (2015) Microbial Dynamics of Polyhydroxyalkanoates Production from Waste Glycerol using RISA Technique, Research Journal of Biotechnology, 10(10), 69-73.
9. Laothanachareon T, **Kanchanasuta S**, Mhuanthong W, Phalakornkule C, Pisutpaisal N, Champreda V. (2014) Analysis of microbial community adaptation in mesophilic hydrogen fermentation from food waste by tagged 16S rRNA gene pyrosequencing, Journal of Environmental Management, 144 (1), 143-151.
10. **Kanchanasuta S.,** Sirisukpoka U. and Pisutpaisal N. (2013). Comparative performance between heat shocked anaerobic sludge and Clostridium butyricum TISTR 1032 inocula in biohydrogen production from food waste. Research Journal of Biotechnology, 9(4), 7-14.
11. **Kanchanasuta S**, Pisutpaisal N. (2012) Carbon mass balance of biohydrogen production process by Clostridium butyricum TISTR 1032: Effect of oxygen scavenger, Advanced Materials Research, (512-515), 1466-1472.
12. **Kanchanasuta S**, Boonyawanich S, Pisutpaisal N. (2010) Impact of cultivation conditions on Type of Polyhydroxyalkanoate Biopolyester Production, Research Journal of Biotechnology, 5(3), 14-18.

Presentations/Proceeding:

1. **Kanchanasuta, S**. and Pisutpaisal, N. (2012) Investigation of Microbial Population in Biohydrogen Production from Food Waste by Anaerobic Sludge, The 2012 Asian

Biohydrogen and Bioproducts Symposium (ABBS2012), November 9-12, 2012, Chongqing, China, (oral presentation).

2. **Kanchanasuta, S**. and Pisutpaisal, N. (2012) Effect of Organic Loading on Biohydrogen Production from Food Waste by Clostridium butyricum TISTR 1032, The 2012 Pacific Rim Energy & Sustainability Congress (PRESCO 2012), August 6-9, 2012, Hiroshima, Japan
3. **Kanchanasuta, S**. and Pisutpaisal, N. (2009) Effect of Operational Conditions on Production of Polyhydroxy Alkanoate Copolymer, In “Pure and Applied Chemistry International Conference 2009 Proceedings”, p.655-657.