Curriculum Vitae

Name: Wong Chee Chung

List of Research:

Internal Grant

1. Modelling and Statistical Analysis for Removal of Boron from Wastewater: A Comparison of the Performance of Different Sorbent Materials and Adsorption-Flocculation Process. (UCTS/RESEARCH/2/2017/06)

2. Treatment of Palm Oil Mill Effluent (POME) Wastewater by Integration of Advanced Oxidation and Aerobic Sequencing Batch Reactor Process. (UCTS/RESEARCH/2/2017/07)

3. Investigation of Modified Ultrasonic cavitation for Treatment of Palm Oil Mill Effluent Wastewater. (UCTS/ RESEARCH/4/2017/10)

4. Train Wash Wastewater Treatment Using Membrane Filtration System and Advanced Oxidation Process. (UCTS/RESEARCH/3/2018/09)

5. Ultra-Sonication and Hydrodynamic Cavitation (HC) coupled with Advanced Oxidation Process (AOP) for Railway Wash Wastewater (RWW) Treatment. (UCTS/RESEARCH/3/2018/08)

6. Water Supply for Kampung Abit, Balai Ringin. (UCTS/RESEARCH/ 4/2018/21)

7. Enhanced Sibu Peat by Monovalent, Divalent and Trivalent Cationic Reagent Grout Methods with biochar addition for Wetland Soil Development. (UCTS/RESEARCH/4/2019/10)

8. Constructed wetland system for peat soil ecosystem restoration and water quality analysis (UCTS/RESEARCH/ 4/2019/11)
9. Decision support systems development for water monitoring for peat soil management. (UCTS/RESEARCH/ 4/2019/09)

10. Pipe Burst Vulnerability Map for Sibu Water Board. (UCTS/RESEARCH/2/2021/01)

List of Publications:

1. Wong, G.K., Lee, M.D., Augustine, C.A., Wong, C.C., Wong, C.S., Johnson, O.A. Application of Hybrid Ultrasonic Cavitation/Adsorption and Coagulation for Treatment of Palm Oil Mill Effluent Wastewater. *American Institute of Physics (AIP) Conference Proceeding 2124, 020008 (2019)* – (SCOPUS INDEXED).

2. Tay, H.H., Augustine, C.A., Wong, C.C., Wong, C.S, Johnson, O.A. Activation of Persulphate by Heat, pH, and Transition Metals for Removal of COD and Colour from Biologically Treated Palm Oil Mill Effluent. *American Institute of Physics (AIP) Conference Proceeding. 2124, 020007 (2019)* – (SCOPUS INDEXED).

3. Augustine, C.A., Malay C., Wong, C.C., Wong, C.S. Artificial Neural Network (ANN) Modeling for Prediction of Pesticide Wastewater Degradation by FeGAC/H2O2 Process. *E3S Web of Conferences 65, 05004 (2018)* (SCOPUS INDEX)

4. Augustine, C.A., Wong, C.C., Mohammed A.B.S. Preparation, Characterization and Adsorption Study of Granular Activated Carbon/Iron oxide composite for the Removal of Boron and Organics from Wastewater. *E3S Web of Conferences 34, 02006 (2018)* (SCOPUS INDEXED).

5. Wong, M.F., Augustine, C.A., Wong, C.C. Synthesis of Ag/Fe/CAC for Colour and COD Removal from Methylene Blue Dye Wastewater. *International Journal of Environmental Science and Technology 17: 3485-3494 (2020)* (WOS & SCOPUS INDEXED)

6. Fung, X., Augustine, C.A, Wong, C.C. Review of Nano Zero Valent Iron Oxidation and Alginate Beads for Degradation of Chemical Oxygen Demand and Turbidity in Wastewater. *Borneo Journal of Science and Technology Vol. 2, Issue 2, 72-76* (2019).

7. Augustine, C.A, Wong, C.C., Wong, C.S. Can Induced Magnetic Field Enhance Bioprocesses? – Review. *MATEC Web of Conferences 203, 03007 (2018)* (SCOPUS INDEX)

8. Augustine, C.A, Wong, C.C., Lau, P.L., Johnson, O.A, Khor, C.S., Lavania, B., Bryan Wong Lee Peng, Fung Xınru. *Lecture Notes in Civil Engineering book series (LNCE, volume 132) (2021) 93-102.* (WOS & SCOPUS INDEXED)

9. Yek, P. N. Y., Osman, M. S., Wong, C. C., Wong, C. S., Kong, S. H., Sie, T. S., . . . Liew, R. K. (2020). Microwave wet torrefaction: A catalytic process to convert waste palm shell into porous biochar. *Materials Science for Energy Technologies, 3, 742-747,* 2020.

10. Yek, P. N. Y., Peng, W., Wong, C. C., Liew, R. K., Ho, Y. L., Wan Mahari, W. A., . . . Lam, S. S. (2020). Engineered biochar via microwave CO2 and steam pyrolysis to treat carcinogenic Congo red dye. *J Hazard Mater, 395, 122636.*

11. Kong, S. H., Lam, S. S., Yek, P. N. Y., Liew, R. K., Ma, N. L., Osman, M. S., & Wong, C. C. (2019). Self-purging microwave pyrolysis: an innovative approach to convert oil palm shell into carbon-rich biochar for methylene blue adsorption. *Journal of Chemical Technology and Biotechnology, 94(5), 1397-1405*.

List of Awards:

1. Silver Award during UNIMAS Innovative and Technology Exposition (InTEX 2019), Kuching, Malaysia (24th-25th July 2019). (UNIMAS) – 2019