

Curriculum Vitae

NAME: Daniel Tang Kuok Ho

TITLE: CEnv, CEng, Dr.

COUNTRY OF CITIZENSHIP: Malaysia

QUALIFICATIONS:

1. PhD (Safety Performance Evaluation Framework of Offshore Platforms) (University of Malaya, Malaysia) (2014-2018)
2. M. Sc. Environmental Engineering (University of Nottingham, UK) (2005 – 2006)
3. B. Sc. Chemistry and Biology (Campbell University, USA) (2003 – 2005)
4. TAE Cert IV in Training and Assessment (GippsTAFE, Australia) (2013)
5. Advanced Diploma of Ministry (Christian Leaders Institute, USA) (2014)

MEMBERSHIP OF PROFESSIONAL BODIES:

1. CEng & Chartered Energy Engineer, Energy Institute (EI), Membership Number: 0062798
2. Chartered Environmentalist, Energy Institute (EI), Registration Number: 10193
3. EIA Consultant, Department of Environment Malaysia, Registration Number: C0576
4. EIA Consultant (Field: Environmental Engineering, Environmental Management), Natural Resources and Environment Board, Registration Number: NREB/I/00806
5. Senior Fellow, Higher Education Academy UK, Registration Number: PR176158
6. Member, Malaysian Institute of Chemistry, Registration Number: A/2982/5792/2010
7. Member, International Association of Educators and Researchers, Registration Number: 2103001
8. Graduate Technologist, Malaysia Board of Technologist, GT19100310

INDUSTRIAL APPOINTMENT:

1. Environmental consultant (2007-2015)
 - a. Team leader/ project coordinator/ consultant of more than 60 environmental projects consisting of environmental impact assessments, environmental management plans, environmental monitoring and feasibility studies.
 - b. Appointed as environmental engineer of a renowned environmental consultancy in Malaysia (2007-2012)

ACADEMIC APPOINTMENT:

1. University of Arizona (2022 - present)
 - a. Global Professor, Department of Environmental Science, Northwest Agriculture and Forestry University Microcampus, Yangling, China (2022 – present)
2. Beijing Normal University-Hong Kong Baptist University United International College (2020 – 2022)
 - a. Assistant professor of the Environmental Science Program, Division of Science and Technology (2020-2022)

3. Curtin University Malaysia (2012-2020)
 - a. Unit coordinator and leader of diploma and degree subjects taught (2012-2020)
 - b. Program coordinator of the Diploma of Occupational Health and Safety (DOHS) (2013 – 2015)
 - c. Program coordinator of BSc (Health, Safety and Environment) (2020)
 - d. Main and co-supervisor of PhD and master students, and final year students.
 - e. Speaker of technical/ academic writing in workshops and induction programs.
 - f. Speaker and faculty representative in various marketing events.
4. Open University Malaysia (2013-present)
 - a. Adjunct Professor

PROFESSIONAL CONTRIBUTIONS TO EDUCATIONAL AND RESEARCH DEVELOPMENT:

1. Served in the advisory and technical committees of more than 20 conferences.
2. Reviewed more than 400 scholarly papers.
3. Serve in the editorial teams of 5 journals.
4. Speaker at marketing events, conferences, seminars and training sessions

SELECTED PUBLICATIONS:

Journal Publications:

1. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2017). Factors affecting safety of processes in the Malaysian oil and gas industry. *Safety Science*, 92(2017), 44-52.
2. Tang, K. H. D., & Intai, R. (2017). Effectiveness of audio-visual aids in teaching lower secondary science in a rural secondary school. *Asia Pacific Journal of Educators and Education*, 32, 91-106.
3. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2018). Integrating fuzzy expert system and scoring system for safety performance evaluation of offshore oil and gas platforms in Malaysia. *Journal of Loss Prevention in the Process Industries*, 56(2018), 32-45.
4. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2018). Actual safety performance of the Malaysian offshore oil platforms: Correlations between the leading and lagging indicators. *Journal of Safety Research*, 66(2018), 9-19.
5. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2018). A review of the offshore oil and gas safety indices. *Safety Science*, 109(2018), 344-352.
6. Tang, K. H. D. (2018). Impacts of sustainability education on the beliefs and attitudes of engineering students towards sustainability. *International Journal of Sustainability in Higher Education*, 19(3), 459-472.
7. Tang, K. H. D. (2018). Climate change in Malaysia: Trends, contributors, impacts, mitigation and adaptation. *Science of the Total Environment*, 650(2), 1858-1871.
8. Tang, K. H. D. (2019). The dilemma of environmental impact assessment in Sarawak, Malaysia. *Journal of Sustainability Science and Management*, 14(3), 3-6.
9. Tang, K. H. D. & Law, Y. W. E. (2019). Phytoremediation of soil contaminated with crude oil using *Mucuna Bracteata*. *Research in Ecology*, 1(1). <https://ojs.bilpublishing.com/index.php/re>
10. Tang, K. H. D. (2019). Climate change and paddy yield in Malaysia: A short communication. *Global Journal of Civil and Environmental Engineering*, 1, 14-19.

11. Tang, K. H. D. (2019). Public Participation in the Malaysian Environmental Impact Assessment. *Environmental Sustainability and Climate Change*, 1(1).
12. Tang, K. H. D. (2019). Sustainability of oil palm plantations in Malaysia. *Environment, Development and Sustainability*. <https://doi.org/10.1007/s10668-019-00458-6>
13. Tang, K. H. D. (2019). Are we already in a climate crisis? *Global Journal of Civil and Environmental Engineering*, 1, 25-32.
14. Tang, K. H. D. (2019). Phytoremediation of soil contaminated with petroleum hydrocarbons: A review of recent literature. *Global Journal of Civil and Environmental Engineering*, 1, 33-42.
15. Tang, K. H. D. (2019). Hydroelectric dams and power demand in Malaysia: A planning perspective. *Journal of Cleaner Production*, 252, 119795.
16. Tang, K. H. D. (2020). Anticipations for and perceived barriers of development among the Sarawak's Highlanders. *Journal of Social Sciences and Humanities*, 28(2), 1507-1524.
17. Tang, K. H. D. (2020). Ecotoxicological impacts of micro- and nanoplastics on marine fauna. *Examines of Marine Biology and Oceanography*, 3(2).
18. Tang, K. H. D. (2020). Implications of climate change on marine biodiversity. *Global Journal of Agriculture and Soil Science*, 1(1).
19. Tang, K. H. D. (2020). Municipal solid waste management in the Sarawak state of Malaysia and the way forward. *Asian Journal of Environment & Ecology*, 12(2), 28-55.
20. Wong, K. H. J., Lee K. K., Tang, K. H. D., & Yap, P. S. (2020). Microplastics in the freshwater and terrestrial environments: Prevalence, fates, impacts and sustainable solutions. *Science of the Total Environment*, 719, 137512.
21. Tang, K. H. D. (2020). Effects of microplastics on agriculture: A mini-review. *Asian Journal of Environment & Ecology*, 13(1).
22. Bong, J. T., Loy, A. C. M., Chin, B. L. F., Lam, M. K., Tang, D. K. H., Lim, H. Y., Chai, Y. H., & Yusup, S. (2020). Artificial neural network approach for co-pyrolysis of *Chlorella vulgaris* and peanut shell binary mixtures using microalgae ash catalyst. *Energy*, 207, 118289.
23. Tang, K. H. D. (2020). A comparative overview of the primary Southeast Asian safety and health laws. *International Journal of Workplace Health Management*, 13(6), 601-632.
24. Tan, K. L., Sia, J. K. M., & Tang, K. H. D. (2020). Examining students' behavior towards campus security preparedness exercise: The role of perceived risk within the theory of planned behavior. *Current Psychology*, 1-10.
25. Tang, K. H. D. (2020). A scoping review of studies on COVID-19. *International Journal of Science and Healthcare Research*, 5(2), 206-214.
26. Tang, K. H. D. (2020). Personality traits, teamwork competencies and academic performance among first-year engineering students. *Higher Education, Skills and Work-Based Learning*, 11(2), 367-385.
27. Tang, K. H. D. (2020). Movement control as an effective measure against Covid-19 spread in Malaysia: An overview. *Journal of Public Health: From Theory to Practice*. <https://doi.org/10.1007/s10389-020-01316-w>
28. Tang, K. H. D. (2020). Effects of microplastics on agriculture: A mini-review. *Asian Journal of Environment & Ecology*, 13(1), 1-9.
29. Tang, K. H. D., Awa, S. H., & Hadibarata, T. (2020). Phytoremediation of copper-contaminated water with *Pistia stratiotes* in surface and distilled water. *Water, Air & Soil Pollution*, 231(573), 1-16.

30. Tang, K. H. D. (2020). A review of psychosocial models for the development of musculoskeletal disorders and common psychosocial instruments. *Archives of Current Research International*, 20(7), 9-19.
31. Choong, W. S., Hadibarata, T., & Tang K. H. D. (2021). Abundance and distribution of microplastics in the water and riverbank sediment in Malaysia – A review. *Biointerface Research in Applied Chemistry*, 11(4), 11700-11712.
32. Tang, K. H. D. (2021). A case study of asset integrity and process safety management of major oil and gas companies in Malaysia. *Journal of Engineering Research and Reports*, 20(2), 6-9.
33. Tan, K. L., Sia, J. K. M., & Tang, K. H. D. (2021). To verify or not to verify: using partial least squares to predict effect of online news on panic buying during pandemic. *Asia Pacific Journal of Marketing and Logistic*, Ahead-of-print.
34. Tang, K. H. D., & Chin, B. L. F. (2021). Correlations between control of COVID-19 transmission and influenza occurrences in Malaysia. *Public Health*, 198, 96-101.
35. Liong, R. M. Y., Hadibarata, T., Yuniarto, A., Tang, K. H. D. & Khamidun, M. H. (2021). Microplastic occurrence in the water and sediment of Miri River estuary, Borneo Island. *Water, Air & Soil Pollution*, 232(8), 1-12.
36. Tang, K. H. D., & Hadibarata, T. (2021). Microplastics removal through water treatment plants: Its feasibility, efficiency, future prospects and enhancement by proper waste management. *Environmental Challenges*, 100264.
37. Choong, W. S., Hadibarata, T., Yuniarto, A., Tang, K. H. D., Abdullah, A., Syafrudin, M., Al Farraj, D. A., & Al-Mohaimed, A. M. (2021). Characterization of microplastics in the water and sediment of Baram River estuary, Borneo Island. *Marine Pollution Bulletin*, 172, 112880.
38. Tang, K. H. D. (2021). The effects of climate change on occupational safety and health. *Global Journal of Civil and Environmental Engineering*, 3, 1-10.
39. Tang, K. H. D., Kristanti, R. A. (2022). Bioremediation of perfluorochemicals: current state and the way forward. *Bioprocess and Biosystems Engineering*, 1-17.
40. Tang, K. H. D. (2022). Climate change policies of the four largest global emitters of greenhouse gases: Their similarities, differences and way forward. *Journal of Energy Research and Reviews*, 10(2), 19-35.
41. Tang, K. H. D. & Hadibarata, T. (2022). Seagrass meadows under the changing climate: A review of the impacts of climate stressors. *Research in Ecology*, 4(1), 27-36.
42. Liu, T., Miao, P., Shi, Y., Tang, K. H. D., & Yap, P. S. (2022). Recent advances, current issues and future prospects of bioenergy production: a review. *The Science of the Total Environment*, 810, 152181.
43. Tang, K. H. D., Lock, S. S. M., Yap, P. S., Cheah, K. W., Chan, Y. H., Yiin, C. L., ... & Chai, Y. H. (2022). Immobilized enzyme/microorganism complexes for degradation of microplastics: A review of recent advances, feasibility and future prospects. *Science of The Total Environment*, 154868.
44. Kristanti, R. A., Mardarveran, P., Almaary, K. S., Elshikh, M. S., AbdelGawwad, M. R., & Tang, K. H. D. (2022). Phytoremediation of bauxite wastewater potentiality by *Jatropha curcas*. *Bioprocess and Biosystems Engineering*, 1-7.
45. Li, C., & Tang, K. H. D. (2022). Effects of pH and temperature on the leaching of di (2-Ethylhexyl) phthalate and di-n-butyl phthalate from microplastics in simulated marine environment. *Biointerface Research in Applied Chemistry*, 13(3)
46. Tang, K. H. D., & Hadibarata, T. (2022). The application of bioremediation in wastewater treatment plants for microplastics removal: a practical perspective. *Bioprocess and Biosystems Engineering*, 1-14.

47. Tang, K. H. D. (2023). Bioaugmentation of anaerobic wastewater treatment sludge digestion: A perspective on microplastics removal. *Journal of Cleaner Production*, 135864.
48. Tang, K. H. D. (2023). Climate change education in China: A pioneering case of its implementation in tertiary education and its effects on students' beliefs and attitudes. *International Journal of Sustainability in Higher Education*, ahead-of-print.

Conference Publications:

1. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2015, September). *Factors affecting safety of processes in the Malaysian oil and gas industry*. Paper presented at the 4th International Conference on Advanced Manufacturing Technology, Skudai, Johor, Malaysia.
2. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2015, December). *Factors affecting safety of processes in the Malaysian oil and gas industry*. Paper presented at the 10th CUTSE International Conference, Miri, Sarawak, Malaysia.
3. Tang, K. H. D., & Kurnia, S. (2015, November). *Perception of 2014 semester 2 foundation engineering students of Curtin University Sarawak on the usage of Moodle for learning*. Paper presented at the 3rd International Conference on Higher Education Teaching and Learning, Miri, Sarawak, Malaysia.
4. Tang, K. H. D. (2016, May). *Ecological footprint analysis of electricity and water usage*. Paper presented at the 33rd Annual Pan-Pacific Conference, Miri, Sarawak, Malaysia.
5. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2017, November). *Integrating fuzzy expert system and scoring system for safety performance evaluation of offshore oil and gas platforms in Malaysia*. Paper presented at the Borneo Research Education Conference (BREC 2017), Miri, Sarawak, Malaysia.
6. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2017, December). *Actual safety performance of the Malaysian offshore oil platforms: Correlations between the leading and lagging indicators*. Paper presented at the One Curtin International Postgraduate Conference (OCPC 2017), Miri, Sarawak, Malaysia.
7. Tang, K. H. D., Juan, A. (2019). *Phytoremediation of crude-oil contaminated soil with local plant species*. IOP Conference Series: Materials Science and Engineering, 495.
8. Tang, K. H. D., Md. Dawal, S. Z., & Olugu, E. U. (2018, November). *Generating safety performance scores of offshore oil and gas platforms in Malaysia*. Paper presented at the One Curtin International Postgraduate Conference (OCPC 2018), Miri, Sarawak, Malaysia.
9. Tang, K. H. D. (2019, November). *The effect of fertilizer on Epipremnum Aureum in phytoremediating soil contaminated with crude oil*. Paper presented at the 2nd International Conference on Materials Technology and Energy (ICMTE 2019), Miri, Sarawak, Malaysia.
10. Wong, C. Y., Tan, I. S., Foo, H. C. Y., Tang, K. H. D., Tan, Y. H., Yeong, Y. F., Lam, M. K. (2019, November). *Monolayer grafting of APTES modified graphene oxide on silica coated magnetite: Synthesis, characterization and application in heavy oil removal*. Paper presented at the 2nd International Conference on Materials Technology and Energy (ICMTE, 2019), Miri, Sarawak, Malaysia.
11. Tang, K. H. D. (2019, December). *A review of the green building rating systems*. Paper presented at the 1st Borneo Building Information Modelling (BIM) Symposium, Miri, Sarawak, Malaysia.

12. Tang, K. H. D., Yap, P. S. (2020, February). *Slash-and-burn agriculture - an obstacle to future-proofing climate change*. 4th International Conference on Climate Change (ICCC 2020), Kuala Lumpur, Malaysia.
13. Tang, K. H. D. (2022, November). *Microplastics in agricultural soil in China: Sources, impacts and solution*. International Conference on the Cooperation and Integration of Industry, Education Research and Application, Northwest Agricultural & Forestry University, Yangling, Shaanxi Province, China,

Book Chapter:

1. Tang, K. H. D. (2019). Impacts of climate change on tropical rainforests' adaptive capacity and ecological plasticity. In *Climate Change Facts, Impacts and Solutions* (pp. 1-5). California: Semantic Learning Systems.

REVIEWER FOR:

1. International Journal of Sustainable Development in Higher Education - Emerald (2017-present)
2. International Journal of Workplace Health Management – Emerald (2019 – present)
3. Sustainable Cities and Society – Elsevier (2018-present)
4. Science of the Total Environment – Elsevier (2018-present)
5. Environmental Pollution – Elsevier (2022 – present)
6. Chemosphere – Elsevier (2022 – present)
7. Environment, Development and Sustainability – Springer (2019 – present)

RESEARCH INTEREST

1. Emerging pollutants and persistent organic pollutants
2. Phytoremediation and phytoremediation
3. Environmental assessment and management
4. Sustainable development
5. Environmental education
6. Climate change mitigation and adaption
7. Occupational health and safety
8. Solid waste management