
Curriculum Vitae

Name: Assoc. Prof. Dr. Thomas Moh Shan Yau

List of Research:

Internal Grant

External Grant

1. Innovative Technologies for Extraction of Emergent Prebiotics from Malaysian Seaweeds as Functional Food Ingredients – Project ID: 13337.
 - Sponsorship: Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia. (FRGS/1/2019/WAB09/KUTS/02/1). RM176, 500. 2019.
 - List of Researchers: AP Dr Thomas Moh (UCTS), Mr Koh Chen Chung (UCTS), Dr Woo Kwan Kit (UTAR), AP Dr Wong Ching Lee (formerly of Taylor's University).
 - Date/Duration: Sept 2019 – May 2023 (extended due to MCO)
 - Role: Member

List of Consultancy:

1. Title of Project: Study of physicochemical and antioxidant properties of Malaysian Kelulut honey
 - Company: Simpulan Emas Sdn Bhd, Sibul, Sarawak
 - Main consultations:
 - (i) To conduct physical and biochemical analysis of Kelulut honey provided;
 - (ii) To analyse total phenolic content and total flavonoid content of Kelulut honey samples provided;
 - (iii) To study antioxidant effect of Kelulut honey samples.
 - Duration of consultancy: Mar 2019 – Sept 2020

2. Title of Project: Analysis of commercial stingless bee propolis: physical-biochemical properties and antioxidant activity
 - Company: Need Lee Enterprise, Sibul, Sarawak
 - Main consultations:
 - (i) To conduct physical and biochemical analysis of propolis samples provided;
 - (ii) To study antioxidant effect of propolis samples (DPPH assay).
 - Duration of consultancy: Mar 2019 – July 2019

3. Title of Project: Study on stingless bee hives products
 - Company: Borneo Bee Centre Sdn Bhd
 - Main consultations: To advise on type of analysis for stingless bee hives products
 - Duration of consultancy: April 2018 – Dec 2018

4. Title of Project: Wood vinegar and Kelulut honey
 - Company: Subur Tiasa Holdings Berhad
 - Main consultations: To advise on type of analysis on water and honey samples produced by the company
 - Duration of consultancy: Aug 2018 – Dec 2018

5. Title of Project: Kelulut honey and product development
 - Sponsor: RH Bee Farms Sdn Bhd
 - Main consultation: (i) To evaluate physicochemical and nutritional properties of kelulut honey under various operating conditions; (ii) To develop new food product with kelulut honey as starting material
 - Duration of consultancy: May 2017 till Dec 2019

List of Publications:

1. **T. S. Y. Moh**, T. W. Ting, and A. H. Y. Lau, Energy Reports, "Graphene Nanoparticles (GNP) Nanofluids as Key Cooling Media on A Flat Solar Panel Through Micro-Sized Channels," vol. 6, ed: Elsevier Ltd, 2020, pp. 282-286.

2. K. Johnathan, **T. S. Y. Moh**, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), "Review on Low-Cost Unmanned Aircraft System (UAS) and Digital Image Processing Techniques for Large Scale Oil Palm Tree Health Detection Application," vol. 9, no. 10, pp. 2651 - 2658, 2020.
3. M. M. Rahman, K. Ibrahim, H Taha, A. Amri, X. Zhao, H. Kabir, **T.S.Y. Moh**, B. Ahmed, Z.F. Zhou, M. A.I Hossain, M. Altarawneh, Z. T. Jiang, ThiSecn Solid Films, "Studies of annealing impact on the morphological, opto-dielectric and mechanical behaviors of molybdenum-doped CrN coatings," vol. 677, pp. 119-129, 2019.
4. S. B. Patel, E. Mohammadpour, N. Mondinos, X. Zhao, J. P. Veder, Z. F. Zhou, **T.S.Y. Moh**, W. Y. H. Liew, S. Lee, Z. T. Jiang, Journal of Alloys and Compounds, "High temperature in-situ phase stability of sputtered TiAlxN coatings," vol. 786, pp. 507-514, 2019.
5. E. Awaltanova, A. Amri, N. Mondinos, M. Altarawneh, **T.S.Y. Moh**, H. Widjaja, L.S. Chuah, H. L. Lee, C. Y.Yin, M. M. Rahman, I. Amri, Iwantono, Z.T. Jiang, Journal of Sol-Gel Science and Technology, "Nanorose-like ZnCo₂O₄ coatings synthesized via sol-gel route: morphology, grain growth and DFT simulations," vol. 90, no. 3, pp. 450-464, 2019.
6. A. H. Y. Lau, T. W. Ting, **T. S. Y. Moh**, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, "Simulation of Heat Transfer Enhancement using Nanofluids as Cooling Media for Flat Solar Panel," vol. 6, no. 4, pp. 1-9, 2018
7. S. L. Jong, **T. S. Y. Moh**, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, "Fully Integrated Unmanned Multipurpose Transporter for Dengue Control in Rough Terrain and Shallow Water Application," vol. 6, no. 2, pp. 21-29, 2018.

8. Wong, P., Hii, S.L., Koh, C.C., **Moh, T.S.Y.** and Gindi, S.R. (2019). Chemical analysis on the honey of *Heterotrigona itama* and *Tetrigona binghami* from Sarawak, Malaysia. *Sains Malaysiana*, 48 (8): 1635-1642.
9. Wong, P., Hii, S. L., Koh, C. C., **Moh, T.S.Y.**, Gindi, S.R. and Wong, W.P.M. (2020). Physicochemical and proximate analysis of *Heterotrigona itama* honey from inland and coastal regions of Sarawak. *ASM Science Journal*, 13, Special Issue 4, 36 – 44.
10. Wong, P., **Moh, T.S.Y.**, Suzy, R.A.G., Wong, W.P.M. and Hii, S.L. (2018). Comparison of stingless bee honey originated from two different geographical area in Sarawak, Malaysia, in *Proceeding of National Conference on Agricultural and Food Mechanization 2018 (NCAFM 2018)*, pp. 127 – 129

List of Awards: