

Poh Wai Chia

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Employment History

2019 to date, Universiti Malaysia Terengganu, Associate Professor
2012-2019, Universiti Malaysia Terengganu, Senior Lecturer
2007-2011, Universiti Malaysia Terengganu, Fellow Academician

Educational Qualifications

2008-2012, Ph.D., University of St Andrews, Fife, Scotland.
2005-2008, Master of Science (Natural Product Chemistry), Universiti Putra Malaysia, Serdang, Malaysia.
2002-2005, Bachelor of Science (Industrial Chemistry), Universiti Putra Malaysia, Serdang, Malaysia.

Research Grants

- 2019, Principal Investigator of Fundamental Research Grant Scheme (FRGS) awarded by Ministry of Education Malaysia on the project Elucidating the Induction of Investigation of the functional group compatibility, chemoselectivity and mechanism of green oxidation of aldehyde mediated by bio-surfactant produced from the used cooking oil, under the (RM 96,200.00). Status: Ongoing.
- 2018, Principal Investigator of Talent And Publication Enhancement – Research Grant (TAPE-RG) awarded by Universiti Malaysia Terengganu on Water Extract of Onion Peel for the Synthesis of Bisindolylmethanes under the Programme (RM 20,000.00).
2014, The synthesis of the pharmaceutical intermediates via metal assisted reaction by CH bond fluorinated molecule, under the Ministry of Education Malaysia Terengganu (RM 106,000.00). Status: Completed.
- 2013, Principal Investigator of of Fundamental Research Grant Scheme (FRGS) awarded by Ministry of Education Malaysia on the project Mechanistic and biological studies of phenyl isothiocyanate analogues formation via multicomponent reactions (MCRs) as potential drug candidates in cancer cell lines under the Programme of the University Malaysia Terengganu (RM 60,000.00). Status: Completed
- 21012, Principal Investigator of of Fundamental Research Grant Scheme (FRGS) awarded by Ministry of Education Malaysia on the project Mechanistic and Biological studies of phenyl isothiocyanate analogues formation via multicomponent reactions as potential drug candidates in cancer cell lines (RM 50,000). Status: completed.

Current supervision Master's dissertation by research: 2 (main-supervisor)

Current supervision PhD's dissertation by research: 1 (co-supervisor)

Previous supervision PhD's dissertation by research: 1 (main-supervisor)

Previous supervision Master's dissertation by research: 2 (main-supervisor)

Previous supervision Master's dissertation by course-work: 1 (main-supervisor)

Academic quantitative indicators

1) books	0
2) publications in journals with selective editorial policy	26
3) book chapters	1
4) patents	0
5) supervised and concluded Master's dissertations	2
6) supervised and concluded Doctoral theses	1
7) number of citations received in the international scientific literature (Source: Web of Science, Journal Citation Report, 23 Dec 2020)	0

Sum of the Times Cited: 115

Consultancy

- Consultant for Green 2 U (EU) Sdn Bhd - since 2021 to present.

Editorial and Review

- Peer Reviewer for the Fundamental Research Grant Scheme - since 2019.
- Referee: Bioresource Technology, SN Applied Sciences (SNAS), Journal of Sustainability Science Management, Environmental Geochemistry and Health.
- Associate Editorial for Journal of Sustainability Science and Management, 2019-Present.

Professional body membership

Registered member/committee member of Institute Chemistry Malaysia (Terengganu Branch)
Registered member of Malaysia Ionic Liquid Research Society (MILRS)

Publications

1. Poh Wai Chia, Sarah C. Brennan, Alexandra M.Z. Slawin, Daniela Riccardi and David O'Hagan. Allosteric agonists of the calcium receptor (CaR): fluorine and SF₅ analogues of cinacalcet. *Organic & Biomolecular Chemistry*, 10(39) (2013) 7922–7927.
2. Poh Wai Chia, Matthew R. Livesey, Alexandra M. Z. Slawin, Tanja van Mourik, David J. A. Wylie and David O'Hagan. 3-Fluoro-N-methyl-D-aspartic acid (3F-NMDA) stereoisomers as conformational probes for exploring agonist binding at NMDA receptors. *Chemistry-A European Journal*, 18(28) (2012) 8813–8819.
3. Poh Wai Chia, Davide Bello, Alexandra M. Z. Slawin and David O'Hagan. Fluorination 5- and 7-membered carbocycle motifs by reaction of difluorocarbene with acetylene ethers. *Chemical Communications*, 49(22) (2013), 2189-2191.
4. Su-Yin Kan, Jeongho Cha, Poh Wai Chia. A case study on using Uncritical Inference Test to promote Malaysian College students' deeper thinking in organic chemistry. *Journal of the Korean Chemical Society*, 59 (2) (2015), 156-163.
5. Sian Hui Tan, Tse Seng Chuah, Poh Wai Chia. An improved protocol on the synthesis of thiazolo[3.2-a]pyrimidine using ultrasonic probe irradiation. *Journal of the Korean Chemical Society*, 60 (4) (2016) 245-250.
6. Jeongho Cha, Su-Yin Kan, Poh Wai Chia. The interactive anonymous "must-have" quiz: a simple method to enhance students concept learning in organic chemistry. *Journal of the Korean Chemical Society*, 60(6) (2016), 428-435.
7. Jeongho Cha, Su-Yin Kan, Poh Wai Chia. College students' reflection on the Uncritical Inference Test activity in organic chemistry course. *Journal of the Korean Chemical Society*, 60(2) (2016), 137-143.
8. Siti Nur Aqlili Riana Mohd Asseri, Sian Hui Tan, Wan Nurul Khursyiah Wan Mohamad, Seng Chee Poh, Poh Wai Chia, Su-Yin Kan, Tse Seng Chuah. MgCl₂ as efficient and inexpensive catalyst for the synthesis of 1,4-dihydropyridine derivatives. *Malaysian Journal of Analytical Sciences*, 26 (1) (2017), 13-19.
9. Cha Jeongho, Su-Yin Kan, Nurul Huda Abdul Wahab, Ahmad Nazif Aziz, Poh Wai Chia. Incorporation of brainteaser game in basic organic chemistry course to enhance students' attitude and academic achievement. *Journal of the Korean Chemical Society*, 61 (4), 218-222. 2017.

10. Su-Yin Kan, Wei Sern Yiong, Fu Siong Julius Yong, Poh Wai Chia. Synthesis of benzothiazole derivatives using ultrasonic probe irradiation. *Malaysian Journal of Analytical Sciences*, 6 (2017), 1219-1225.
11. Cha Jeongho, Kan Su-Yin, Chia Poh Wai. Uncritical Inference Test in developing basic knowledge and understanding of organic spectroscopy. *Pertanika Journal of Social Science & Humanities*, 25(4), 1789-1802.
12. Cha Jeongho, Su-Yin Kan, Poh Wai Chia. "Spot the differences" game: An interactive method that engage students in organic chemistry learning. *Journal of Korean Chemical Society*, 62(2) (2018), 159-165.
13. Chia, P. W., Lim, B. S., Tan, K. C., Yong, F. S. J., & Kan, S. Y. (2019). Water extract of onion peel for the synthesis of bisindolylmethanes. *Journal of King Saud University-Science*, 31(4), 642-647.
14. Chia, P. W., Chee, P. S., Asseri, S. N. A. R. M., Yong, F. S. J., & Kan, S. Y. (2018). Synthesis of 2-aminobiaryl derivatives promoted by water extract of onion peel ash. *Malaysian Journal of Analytical Sciences*, 22(5), 742-749.
15. Chia, P. W., Lim, B. S., Yong, F. S. J., Poh, S. C., & Kan, S. Y. (2018). An efficient synthesis of bisenols in water extract of waste onion peel ash. *Environmental Chemistry Letters*, 16(4), 1493-1499.
16. Chia, P.W., Chee, P.S., Aziz, M.H., Radzi, S.A.M., Kan, S. Y. (2019). Water extract of onion peel ash: an efficient green catalytic system for the synthesis of isoindoline-1, 3-dione derivatives. *Malaysian Journal of Analytical Sciences*, 23(1), 23-30.
17. Chia, P. W., Yong, F. S. J., Mohamad, H., & Kan, S. Y. (2019). Cyanation of Anilines to Aryl Nitriles Using tert-Butyl Isocyanide: A Simple and Copper-free Procedure. *Bulletin of the Korean Chemical Society*, 40(10), 939-942.
18. Tan, S. H., Lim, B. S., Yong, F. S. J., Abdullah, M. N., Zuki, H. M., Poh, S. C., Kan, S. Y. & Chia, P. W. (2020). Synthesis of thiazolo-and benzothiazolo [3, 2-a] pyrimidine derivatives using onion peel as natural catalyst. *Songklanakarinn Journal of Science & Technology*, 42(1).
19. Chia, P. W., Chee, P. S., Mazlan, N. W., Yong, F. S. J., Rozaini, M. Z. H., & Kan, S. Y. (2019). Acetylation of alcohols and amines catalyzed by onion peel ash under a base-and solvent-free condition.
20. Rozaini, M. Z. H., Hamzah, H., Razali, M. H., Osman, U. M., Wai, C. P., Soh, S. K. C., Ghazali, S.R., Ibrahim, N.H., & Fei, L. C. (2019). Diversity and marine sustainability of Setiu wetland: modified calcium phosphate from Tamban bones as alternative sunscreen materials AJAB. *Asian J. Agric. Biol. Special Issue*, 33-47.
21. Chia, P. W. W. (2020). Homocoupling of Terminal Alkynes Catalyzed by Copper Complexes of 1, 10-Phenanthroline under Base-and Solvent-free Condition. *Kuwait Journal of Science*, 47(2), 41-49.
22. Yap, Y. H., Azmi, A. A., Mohd, N. K., Yong, F. S. J., Kan, S. Y., Thirmizir, M. Z. A., & Chia, P. W. (2020). Green Synthesis of Silver Nanoparticle Using Water Extract of Onion Peel and Application in the Acetylation Reaction. *Arabian Journal for Science and Engineering*, 45(6), 4797-4807.
23. Ruslan, N. A. A. A., Suk, V. R. E., Misran, M., & Chia, P. W. (2020). Highly efficient and green approach of synthesizing carboxylic acids from aldehydes using sodium hexametaphosphate. *Sustainable Chemistry and Pharmacy*, 16, 100246.
24. CHA, J., KAN, S., & CHIA, P. (2020). INCLUSION OF ORGANIC CHEMICAL BASED SOCIO-SCIENTIFIC ISSUES AND ACTION-BASED ACTIVITY TO PROMOTE SUSTAINABILITY IN THE

BASIC ORGANIC CHEMISTRY COURSE. *Journal of Sustainability Science and Management*, 15(7), 30-39.

25. Abdullah, H. S. T. S. H., Asseri, S. N. A. R. M., Mohamad, W. N. K. W., Kan, S. Y., Azmi, A. A., Julius, F. S. Y., & Chia, P. W. (2021). Green synthesis, characterization and applications of silver nanoparticle mediated by the aqueous extract of red onion peel. *Environmental Pollution*, 116295.

26. Yang, Y., Liew, R. K., Tamothran, A. M., Foong, S. Y., Yek, P. N. Y., Chia, P. W., Trun W. T, Peng WX, & Lam, S. S. (2021) Gasification of refuse-derived fuel from municipal solid waste for energy production: a review. *Environmental Chemistry Letters*, 1-14.

27. Ahmad Ruslan, N. A., Su-Yin Kan, Hamzah A. S., Chia, P. W. Food additives as green catalyst in organic transformation: A review. *Environmental Chemistry Letters*. <https://doi.org/10.1007/s10311-021-01209-8>

28. Siti Aisyah Mohammad Taupik, Siti Nur Anisah Aani, Chia Poh Wai & Chuah Tse Seng. Alleopathic potential of cassava extracts on germination and seedling growth of selected weeds and aerobic rice. *Sains Malaysiana*, accepted (2021).

Book Chapter.

1. Binti, H.S.T.S.H., Abdullaha, S. Y. K., & Chiaa, P. W. (2020). Microwave-and ultrasound-assisted heterocyclics synthesis in aqueous media. *Green Sustainable Process for Chemical and Environmental Engineering and Science: Organic Synthesis in Water and Supercritical Water*, 319, Springer, Amsterdam. <https://doi.org/10.1016/B978-0-12-819542-0.00010-5>