CHRISTOPHER TEH BOON SUNG
FULL CV

Department of Land Management
Faculty of Agriculture, Uni. Putra Malaysia
43400 UPM Serdang,
Selangor, MALAYSIA
Tel: +603-9769 4925; HP: +6012-633 0520
www.christopherteh.com
Email: chris@upm.edu.my

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1 Field of specialty

Soil and water conservation; Agroclimatology

2 Date of appointment to current job position

Dept. of Land Management, Fac. of Agriculture, UPM:

- Head of Department of Land Management, 1 Sept. 2021 – present
- Associate Professor: 1 Apr. 2019 – present
- Senior Lecturer: 1 Jan. 2008 – 31 Mar. 2019
- Lecturer: 8 May 2001 to 31 Dec. 2007
- Tutor (contract): 7 Aug. 1995 to 7 May 2001

3 Education background

Degree	Year graduated	Institution
Ph.D. (Agriculture)	2001	The Uni. of Reading, UK
M. Agric. Sc.	1996	Uni. Pertanian Malaysia
Bac. Agric. Sc.	1994	Uni. Pertanian Malaysia
Malaysian Higher School Certificate (*STPM*)	1990	La Salle Secondary School, Petaling Jaya, Selangor

4 Teaching activities

The following are courses that I have taught or am currently teaching.

Course title	Course code	Credit hours	Contact hours	Level
Agriculture and Life	PRT2009	1+1	56	UG
Soil Conservation	SST4303	2+1	70	UG, PG
Climate Change and Agriculture	SST4304	2+1	70	UG, PG
Soil and Water Conservation	SST5301	3+0	42	PG
Agroclimatology	PRT4302	3+0	32	UG, PG
Final Year Academic Project	PRT4999	0+3	-	UG

UG – undergraduate; PG – postgraduate

The following are also courses I have previously taught. Some of these courses are no longer offered by my university.

Course title	Course code	Credit hours	Contact hours	Level
Soil Management	SST1601	3+1	21	DIP
Soil Physics	SST4302	2+1	70	UG, PG
Agriculture and Man	PRT2008	2+0	28	UG
Elementary Statistics for Agriculture Science	PRT3201	2+0	28	UG
Water Resources and Climate	SST3302	2+1	70	UG
Agriculture Systems I	BIP3003	2+1	42	UG
Agriculture Systems II	BIP3004	2+0	28	UG
Experimental Design and Analysis	BIP3402	2+1	70	UG
Modelling and Computer Simulation in Agriculture	PRT4301	2+1	70	UG, PG

DIP – diploma; UG – undergraduate; PG – postgraduate

5 Student supervision activities

The following table is the summary of the number of postgraduate students under my current and past supervision (as their main or co-supervisor) and those who have since graduated.

		My supervisory role as a	
Degree	Status	Chairperson	Committee member
PhD	On-going	1	1
	Graduated	10	10
Master	On-going	1	0
(by research)	Graduated	6	2
Master	On-going	-	-
(by coursework)	Completed	3	-

5.1 Master students (on-going)

1. Chairperson M.Sc., Jicqueline Mitchell Varonica Ratai, "Effect of compaction, peat decomposition degree and biochar amendment on nutrient leaching from tropical peatland", 2020-

5.2 PhD students (on-going)

1. Committee Member, Ph.D. Gopakumar Abhikrishnan, "Estimation of Water Use Efficiency and Water Productivity in Durian Using Sensors and Artificial Intelligence.", 2023-
2. Chairperson Ph.D., Nurul Izzati bin Mat Akhir, "Fertigation in oil palm plantations", 2020-

5.3 Graduated Master and PhD students

1. Chairperson M.Sc., Melissa Lok Mei Teng, "Validation of an automated in-situ soil nutrient sensor and development of a rapid soil test kit for Malaysian soils", 2022-25 (graduated)
2. Chairperson Ph.D., Cheah See Siang, "Modelling oil palm growth and yield", 2017-2023 (graduated).
3. Chairperson Ph.D., Abba Nabayi, "Potential use of washed rice water waste as fertilizer", 2020-2023 (graduated).
4. Chairperson Ph.D., Yong Farmanta, "Rainwater harvesting as a soil water conservation method in oil palm plantations", 2018-2023 (graduated).
5. Chairperson Ph.D., Mohd. Amir Zunnasri Mohd. Noor, "*Mucuna bracteata* as a potential resource under oil palm", 2015-2021 (graduated).
6. Committee member Ph.D., Jamal S.A. Belkasem, "Land use changes and their impacts on soil quality using remote sensing techniques", 2015-2021 (graduated).

7. Committee member Ph.D., Vijiandran Juva Rajah, "Assessment of nutrient losses and fertiliser efficiency on matured oil palm", 2012-19 (graduated).
8. Committee member Ph.D., Hamidreza Ahmadzadeh Araji, “Assessment of climate change impacts on crop production considering uncertainty of AOGCM models”, 2014-19 (graduated).
9. Chairperson Ph.D., Husam Hasan Abdulaali Al-Shaheen, “Optimal size of silt pits for different soils, slope steepness, and rainfall intensities”, 2015-19 (graduated).
10. Chairperson M.Sc., Safiyanu Hashim Abubakar, “Tropical peat subsidence, nutrient losses and oil palm seedling growth due to different water table depths”, 2015-18 (graduated).
11. Chairperson Master of Land Resource Management (coursework), Ibrahim Abdullahi Ahmed, “Mitigation of land degradation in Somalia by adapting methods from Malaysia and China”, 2017-18 (completed).
12. Chairperson Master of Land Resource Management (by coursework), Mohd. Azlan bin Mohd. Radzi, "Solar energy in Malaysia: The implementation of Malaysian building photovoltaic (MBIPV) for electricity generation”, 2017-18 (completed).
13. Chairperson Master of Land Resource Management (by coursework), Muhamad Shah bin Osmin, "Comparative study on low carbon city initiatives: Kuala Lumpur, Malaysia vs Shenzen, China”, 2017-18 (completed).
14. Committee member Ph.D., Muhammad Edwin Syahputra, "Water dynamics and ground water quality assessment in an oil palm ecosystem", 2010-16 (graduated).
15. Chairperson M.Sc., Abba Nabayi, “Influence of seedling establishment techniques and irrigation systems on growth, water use efficiency and nutrient content of rubber (*Hevea brasiliensis* Müll. Arg.)”, 2015-16 (graduated).
16. Chairperson PhD, Mohsen Bohluli, “The effectiveness of silt pit as a soil, water and nutrient conservation method in a non-terraced oil palm plantation”, 2010-15 (graduated).
17. Committee member M.Sc., Mohamed Abdirahman Sh. Muhumed, "Effects of soil moisture content and fertilizer source on growth and yield of sweet corn", 2012-14 (graduated).
18. Chairperson M.Sc., Khairun Nisa binti Kamarudin, “Modelling nitrogen and water stress effects on the growth and yield of choy sum (*Brassica chinensis* var. parachinensis [Bailey])”, 2010-14 (graduated).
19. Chairperson M.Sc., Chong Siam Yee, “Development of simple equations to estimate net rainfall under closed tree canopies”, 2010-13 (graduated).
20. Chairperson Ph.D., Abdal Shahrivar, “Effects of topographical factors and soil characteristics on gully properties in Kohgiloye and Boyer Ahmad provinces, Iran”, 2008-13 (graduated).
21. Chairperson Ph.D., Hassan Mokhtarpour, “Impact of planting date and density on growth of maize in northern Iran”, 2008-11 (graduated).
22. Chairperson Ph.D., Abolfath Moradidalini, “Effects of different soil and water conservation practices on soil physical and chemical properties in a non-terraced oil palm plantation”, 2009-12 (graduated).
23. Committee member Ph.D., Alagie Bah, “Nutrient loss in runoff and growth response of immature oil palm following application of controlled-release fertilizers”, 2011-15 (graduated).

24. Committee member Ph.D., Hadi Memarian Khalil Abad, “Analyzing and modeling an urbanizing tropical watershed for sustainable land use planning”, 2011-13 (graduated).
25. Committee member PhD, Chen Ying Mah, "Microclimate modelling of *Mesua ferrea* l., *Mimusops elengi* l. and *Peltophorum pterocarpum* (DC.) K. Heyne in Universiti Putra Malaysia", 2010-15 (graduated).
26. Committee member Ph.D., Abdul-Moa’amen Hamood Abdul-Wahid Aldeen, “Bioeconomic evaluation of agroforestry practices in the mountainous region of Rimaa'a Valley, Yemen”, 2007-09 (graduated).
27. Committee member M.Sc., Totok Suswanto, “A decision support system for rice cultivation on an acid sulfate soil”, 2003-05 (graduated).
28. Committee member Ph.D., S.M. Bockari-Gevao, “A systems approach to efficient field machinery utilization for lowland rice production in Malaysia”, 2002-05 (graduated).
29. Committee member Ph.D., Mohamadu Boyie Jalloh, “A simulation study: A model of light interception & utilisation by rubber-banana-pineapple hedgerow-intercropping system (SURHIS)”, 2001-03 (graduated).

5.4 Undergraduates: Final year research project

1. Aiy Reen Eh Kun, “Fermented washed rice water as liquid fertilizer for okra (*Abelmoschus esculentus*)”, 2026.
2. Alya Nabilah Zainudin, “Comparative analysis of nutrient content and microbial population in fermented washed rice water from different brands of red, white and brown rice”, 2025.
3. Dafinah Sharifulazman, “Effects of white, red and brown rice water on soil properties under kangkung (*Ipomea reptans*)”, 2025.
4. Abdul Hakim Hasan, “Utilization of washed rice water (white, red, and brown) in combination with npk fertilizer for enhancing the growth of kangkung (*Ipomea reptans*)”, 2025.
5. Chew Yao Sheng, “Long-term benefits of using washed rice water as plant fertilizer for kangkung (*Ipomoea reptans*)”, 2022.
6. Afiza binti Shaipudin, “Nutrient leaching losses and growth of *Brassica chinensis* from washed rice water application”, 2021.
7. Muhammas Anas Shamsuddin, “Nutrient content in washed rice water”, 2020.
8. Muhmmad Nasrul bin Darto, “Accuracy of NASA POWER data for Malaysian weather”, 2018.
9. Abdul Azim bin Mohd Zikri, “Effectiveness of washed rice water to increase the growth and yield of a vegetable crop”, 2018.
10. Syuhaibah Solehah Azha, “Use of washed rice water as a fertilizer”, 2017.
11. Husna Mohamad, “Prevention of fungi growth in the wick irrigation system using vinegar (acetic acid)”, 2016.
12. Nur Atirah binti Alway, “Prevention of fungi growth in the wick irrigation system using sodium hypochlorite (NaOCl)”, 2016.

13. Muhammad Akmal bin Jamsari, “Prevention of mold growth in the wick irrigation system”, 2015.
14. Ahmad Syamim bin Mohamad Kamal Saupi, “Rubber (*Hevea brasiliensis*) seedlings: Nutrient leaching and water loss under three irrigation systems”, 2014.
15. Akmal Hafiz bin Jaafar, “Water and nutrient losses in three irrigation systems under a rainshelter”, 2014.
16. Mohd. Syarbani bin Isnar, “Growth and yield of kangkung (*Ipomeae reptans*) in three irrigation systems under a rainshelter”, 2014.
17. Nurul Hidayah binti Ismail, “Effects of pulverized oil palm trunk mulch on the soil chemical properties after nearly two years”, 2014.
18. Muhammad Taqwan bin Kamaruddin, “Decomposition rate of pulverized oil palm trunk mulch”, 2013.
19. Siti Hawa Zainal, “One-year effect of pulverized oil palm trunk mulch on the soil chemical properties”, 2013.
20. Wan Nurul Ain binti Wan Embong, “The effects of pulverized oil palm trunk mulch on the soil chemical properties”, 2013.
21. Nur Farahin binti Ismail, “Spatial and temporal change in soil water profile in an oil palm plantation”, 2012.
22. Mohd. Faiz bin Sallehi, “Effects of silt pit dimensions on aggregate breakdown rate and it factors”, 2011.
23. Noorafizah binti Dzahir, “Relationship between microorganisms population and organic carbon on soil aggregation and aggregate stability”, 2011.
24. Nor Fatin binti Mohd Ideris, “Effects of silt pit dimensions on aggregate stability and it factors”, 2010.
25. Siti Nur Awang Markam, “Calibration of mini-disc inflitrometer with the double ring inflitrometer”, 2010.
26. Lee Ying Ping, “Soil erodibility due to different conservation methods on a sloping land in oil palm estate”, 2009.
27. Muhammad Taufiq Jamaludin, “Soil physical and chemical changes in an oil palm estate due to different soil and nutrient conservation methods”, 2009.
28. Nurul Hasanah binti Ishak, “Chemical changes in the decomposition of EFB and Ecomat in an oil palm estate”, 2009.
29. Hartina binti Haris, “Physical changes in the decomposition of EFB and Ecomat in an oil palm estate”, 2008.
30. Siti Junaidah binti Muhammad Sairi, “Soil hydraulic conductivity under different soil conservation practices in an oil palm estate”, 2008.
31. Evelyn Edward, “Modelling the growth of *Brassica spp.* grown with different levels of N fertilization”, 2007.
32. Khairun Nisa binti Kamarudin, “Physical changes in the decomposition of EFB and Ecomat in an oil palm estate”, 2007.
33. Khong Chee Leong, “Empty fruit bunches and Ecomat water conservation practices in an oil palm estate: Modelling the soil water profile”, 2006.

34. Mohd. Haidhar bin Abdul Hamid, "Changes in the soil physical and chemical properties due to different soil and water conservation practices in an oil palm estate", 2006.

6 Mentor

I was the appointed mentor for the following lecturers/researchers:

1. Dr. Ali Tan Kee Zuan, Dept. of Land Management, Faculty of Agriculture, Uni. Putra Malaysia; 2023.
2. Dr. Arina Shairah Abdul Sukor, Dept. of Land Management, Faculty of Agriculture, Uni. Putra Malaysia; 2023.
3. Dr. ChM. Tan Ngai Paing, Dept. of Land Management, Faculty of Agriculture, Uni. Putra Malaysia; 2023.
4. Dr. Syaharuddin Zaibon, Dept. of Land Management, Faculty of Agriculture, Uni. Putra Malaysia; 2018.
5. Dr. Ali Tan Kee Zuan, Dept. of Land Management, Faculty of Agriculture, Uni. Putra Malaysia; 2016-17.
6. Dr. Ali Houssien Ali Baraka, College of Agriculture, Sebha University, Libya; 2009.

7 Post-doctoral

I was the main supervisor for the following post-doctoral researchers:

1. Dr. Adrinal, Post-doctoral Fellow Scheme Program, Human Resource Development (Science & Technology), Ministry of Science, Technology and Environment (MOSTE) of Malaysia; 2004.

8 Publication activities

My Author ID:

- ORCID: 0000-0003-4797-9036
- SCOPUS: 56270363000
- Web of Science ResearcherID ITU-5681-2023

8.1 Bibliometric (h-index)

My h-index according to:

- Google Scholar: 24 (i-10 index: 52)
- Researchgate: 23
- Scopus: 15
- Web of Science: 10

In the following lists of publication, my name is highlighted in bold and if followed by '*', this indicates the publication in which I am the senior or corresponding author.

8.2 WoS- or Scopus-indexed journals (* corresponding or senior author)

1. Abdulaali, H. H., Kadhim, M. A., Alradiny, IO. M. A., & **Teh. C. B. S.*** (2026). Spatiotemporal analysis of vegetation cover changes in selected areas of Basrah Governorate using geospatial techniques. Basrah Journal of Agricultural Sciences (Accepted)
2. Lok, M. M. T., Tan, N. P., Tee, Y. K., & **Teh, C. B. S.*** (2026). Low-cost and rapid NPK soil test kit using colorimetric and turbidimetric methods for field-level analysis of tropical acidic mineral soils. Communications in Soil Science and Plant Analysis, 1–24. https://doi.org/10.1080/00103624.2026.2631600
3. **Teh, C. B. S.***, Cheah, S. S., & Appleton, D. R. (2026) A stochastic daily weather generator for perennial crop simulations in tropical Malaysia. PLoS One 21(2): e0338833. https://doi.org/10.1371/journal.pone.0338833
4. Sani, I., **Teh, C. B. S.**, Syaharudin, Z., & Sim, C. C. (2025). Weather variables and soil moisture regime influences on stomatal conductance and leaf water potential of oil palm. Diyala Agricultural Sciences Journal, 17(2), 152–165. https://doi.org/10.52951/dasj.25170211
5. Lok, M. M. T., Tan, N. P., Tee, Y. K., & **Teh, C. B. S.*** (2024). Review on the innovations and challenges in developing rapid colorimetry and turbidity NPK soil test kits for commercial soil nutrient analysis. Pertanika Journal of Tropical Agriculture Science, 47(4): 1405-1428. https://doi.org/10.47836/pjtas.47.4.21
6. Sani, I., **Teh C. B. S.***, Zaibon, S., & Sim, C. C. (2024). Climate variability and water stress effects on oil palm (*Elaies guineensis* Jacq.) productivity in Malaysia. Journal of Oil Palm Research. https://doi.org/10.21894/jopr.2024.0054.
7. Jicqueline Ratai, **Christopher Boon Sung Teh**, Ngai Paing Tan, Hasmah Mohidin, Kah Joo Goh, Faustina Elfrida Sangok, and Lulie Melling. 2024. Tropical peat soil changes across successive oil palm generations in Sarawak, Malaysia. Heliyon. 10(18): e37754. https://doi.org/10.1016/j.heliyon.2024.e37754
8. Macher, G. Z., Károly, F., **Teh, C. B. S.**, Beke, D., Torma, A., & Gergely, S. (2024). Spectroscopic analysis of chrysotile asbestos and its environmental resistance in asbestos cement waste products. Pertanika Journal of Science and Technology. 32(6): 2441-2458. https://doi.org/10.47836/pjst.32.6.03
9. **Teh, C. B. S.***, Cheah, S. S., & Kulaveerasingam, H. (2024). Development and validation of an oil palm model for a wide range of planting densities and soil textures in Malaysian growing conditions. Heliyon. 10(14): e32561. https://doi.org/10.1016/j.heliyon.2024.e32561
10. Sani, I., **Teh C. B. S.***, Zaibon, S., & Sim, C. C. (2024). Assessment of plant height and trunk diameter of oil palm as a sole function of soil textural grains (sand, silt and clay). Malaysian Journal of Soil Science, 28, 92-104. https://msss.com.my/mjss/Full%20Text/vol28/V28_08.pdf
11. Nabayi, A., **Teh, C. B. S.*,** Tan, A. K. Z., Tan, N. P., & Beke, D. (2023). Combined benefits of fermented washed rice water and NPK mineral fertilizer on plant growth and soil fertility over three field planting cycles. Heliyon. 9(9): e20213. https://doi.org/10.1016/j.heliyon.2023.e20213

12. Nabayi, A., **Teh, C. B. S.*,** Tan, A. K. Z., & Tan, N. P. (2023). Nutrient leaching losses from continuous application of washed rice water on three contrasting soil textures. Pertanika Journal of Science and Technology. 46(1): 49-65. http://dx.doi.org/10.47836/pjtas.46.1.04

13. Nabayi, A., **Teh, C. B. S.*,** Tan, A. K. Z., & Tan, N. P. (2023). Fermentation of white and brown rice water increases plant nutrients and beneficial microbes. Pertanika Journal of Tropical Agriculture Science, 46(1), 49-65. doi.org/10.47836/pjtas.46.1.04

14. Nabayi, A., **Teh, C. B. S.*,** & Zulkefly, S. (2022). Influence of irrigation systems on the plant growth and leaf ratio analyses of rubber (*Hevea brasiliensis*) seedlings. *Pertanika Journal of Tropical Agriculture*, 45(4), 1095-1112.

15. Nabayi, A., **Teh, C. B. S.*,** Tan, A. K. Z., & Tan, N. P. (2022). Consecutive application effects of washed rice water on plant growth, soil chemical properties, nutrient leaching, and soil bacterial population on three different soil textures over three planting cycles. *Agronomy*, 12, 2220. doi.org/10.3390/agronomy12092220

16. Siang, C. S., Wahid, A. A. A., & **Teh, C. B. S.*** (2022) Standing biomass, dry-matter production and nutrient demand of Tenera oil palm. *Agronomy*, 12, 426. doi.org/10.3390/agronomy12020426

17. Alawamy, J. S., Balasundram, S. K., Mohd. Hanif, A. H., & **Teh, C. B. S.** (2022). Response of potential indicators of soil quality to land-use and land-cover change under a Mediterranean climate in the region of Al-Jabal Al-Akhdar, Libya. *Sustainability*, 14, 162. https://doi.org/10.3390/su14010162

18. Nabayi, A., **Teh, C. B. S.*,** Tan, A. K. Z., & Tan, N. P. (2021). Fermentation of washed rice water increases beneficial plant bacterial population and nutrient concentrations. *Sustainability*, 13, 13437. doi.org/10.3390/su132313437.

19. Nabayi, A., **Teh, C. B. S.*,** Tan, A. K. Z., Tan, N. P., & Mat Akhir, N. I. (2021). Chemical and microbial characterization of washed rice water waste to assess its potential as plant fertilizer and for increasing soil health. *Agronomy*, 11, 2391. https://doi.org/10.3390/agronomy11122391

20. Farmanta, Y., **Teh, C. B. S.***, Goh, S. E. G., Tan, N. P., Handoko, & Impron. (2021). Net rainfall components under various ages of oil palm trees. *Malaysian Journal of Soil Science*, 25: 159-169.

21. Nabayi A., **Teh, C. B. S.***, Tan, N. P., & Ali Tan, K. Z. (2021). Wastewater from washed rice water as plant nutrient source: Current understanding and knowledge gaps. *Pertanika Journal of Science and Technology*, 29(3): 1347-1369.

22. Mohd Noor, M. A. Z., Sulaiman, M. F., Wan Abdul Karim Ghani, W. A. & **Teh, C. B. S.*** (2021). Effects of harvesting *Mucuna bracteata* on the legume biomass and soil properties under mature oil palm. *Pertanika Journal of Tropical Agriculture*, 44(1): 139-155.

23. Nabayi A., **Teh, C. B. S*.**, Husni, M. H. A., & Sulaiman, Z. (2020). Use of root trainers and wick irrigation for better production of rubber plant seedlings production in nurseries. *Soil and Environment*, 39(2), 126-134.

24. Al-Awamy, J. S., Balasundram, S. K., **Teh, C. B. S.**, Husni, M. H. A. (2020). Assessment of land use and land cover changes in the region of Al-Jabal Al-Akhdar, Libya using time-series Landsat data from 1985 to 2017. *Sustainability*, 12: 4490. doi:10.3390/su12114490.

25. Cheah, S. S., **Teh, C. B. S.*** (2020). Parameterization of the Farquhar-von Caemmerer-Berry C3 photosynthesis model for oil palm. *Photosynthetica, 58*(3): 769-779. doi: 10.32615/ps.2020.020

26. Cheah, S. S., **Teh, C. B. S.***, Mohd Razi, I., & Mohd Rafii, Y. (2020). Modelling hourly air temperature, relative humidity and solar irradiance over several major oil palm growing areas in Malaysia. *Journal of Oil Palm Research*, 32(1): 34-49.

27. Husam, H. H., **Teh, C. B. S.***, Abdulaali, A. H., Rowshon, M. D. K., & Roslan, I. (2020). Optimization of silt pit dimensions and the water supply period in oil palm plantation by artificial neutral network estimation. *EnvironmentAsia*, 13(1): 53-66.

28. Ahmadzadeh Araji, H., Wayayok, A., Daneshian J., Mirzaei, M., Bavani, A. R. M., **Teh, C. B. S.**, Abdullah, A. F., & Ahmadi, P. (2020). Effects of projected climate change on quantity and quality of soybean yield under different emission scenarios. *Current Science*, 118(1): 103-107.

29. Hashim S. A., **Teh, C. B. S.***, Ahmed, O. H. (2019). Influence of Water Table Depths, nutrients leaching losses, subsidence of tropical peat soil and oil palm (*Elaeis guineensis* Jacq.) seedling growth. Malaysian Journal of Soil Science, 23: 13-30.

30. Ahmadzadeh Araji, H., Wayayok, Khayamim, S., **Teh, C. B. S.**, Fikri Abdullah, A., & Massah Bavani. (2019). Calibration of Aquacrop model to simulate sugar beet production and water productivity under different treatments of field experiment. *Applied Engineering in Agriculture,* 35(2): 211-219. doi: 10.1016/j.agwat.2018.04.023.

31. Ahmadzadeh Araji, H., Wayayok, A., Massah Bavani, A., Amiri, E., Fikri Abdullah A., Daneshian, J., & **Teh, C. B. S.** (2018). Impacts of climate change on soybean production under different treatments of field experiments considering the uncertainty of general circulation models. *Agricultural Water Management, 205*, 63-71. doi: 10.1016/j.agwat.2018.04.023

32. Chong, S. Y., **Teh, C. B. S.***, Ainuddin, A. N., & Philip, E. (2018). Simple net rainfall partitioning equations for nearly full to full canopy stands. *Pertanika Journal of Tropical Agriculture, 41*(1), 81-100.

33. Nabayi A., **Teh, C. B. S*.**, Husni, M. H. A., & Sulaiman, Z. (2018). Plant growth, nutrient content, and water use of rubber (*Hevea brasiliensis*) seedlings grown using root trainers and under different irrigation systems. *Pertanika Journal of Tropical Agriculture, 41*(1), 251-270.

34. **Teh, C. B. S.*** (2018). Development and validation of an unsaturated soil water flow model for oil palm. *Pertanika Journal of Tropical Agriculture, 41*(2), 787-800.

35. Vijiandran J. R., Husni, M. H. A., **Teh, C. B. S.**, Zaharah, A. R., & Xaviar, A. (2017). Nutrient losses through runoff from several types of fertilisers under mature oil palm. *Malaysian Journal of Soil Science, 21*, 113-121.

36. Kamarudin, N. K., **Teh, C. B. S.***, & Hawa Jaafar, Z. E. (2016). Simultaneous effects of water and nitrogen stress on the vegetative and yield parameters of choy sum (*Brassica chinensis* var. *parachinensis*). *Pertanika Journal of Tropical Agriculture, 39*(1), 101-116.

37. Nabayi, A., **Teh, C. B. S.***, Husni, M. H. A., Jaafar, H. & Isnar, M. S. (2016). Comparison of three irrigation systems for the BX-1 system for nursery seedlings. *Malaysian Journal of Soil Science, 20*, 19-36.

38. Moraidi, A., **Teh, C. B. S.***, Goh, K. J., Husni, M. H. A., & Fauziah, C. I. (2015). Effect of four soil and water conservation practices on soil physical processes in a non-

terraced oil palm plantation. *Soil and Tillage Research, 145*, 62-71. doi: 10.1016/j.still.2014.08.005

39. Bohluli, M., **Teh, C. B. S.***, Husni, M. H. A., & Zaharah, A. R. (2014). Silt pit efficiency in conserving soil water as simulated by HYDRUS 2D model. *Pertanika Journal of Tropical Agriculture. 37*(3), 317-326.

40. Kamarudin, N. K., **Teh, C. B. S.***, & Hawa Jaafar, Z. E. (2014). Modelling the growth and yield of choy sum (*Brassica chinensis* var. *parachinensis*) to include the effects of nitrogen and water stress. *Malaysian Journal of Soil Science, 18*, 1-17.

41. Lubis, M. E. S., Harahap, I. Y., Hidayat, T. C., Pangaribuan, Y., Sutarta, E. S., Zaharah, A. R., **Teh, C. B. S.**, & Hanafi, M. M. (2014). Changes in water table depth in an oil palm plantation and its surrounding regions in Sumatra, Indonesia. *Journal of Agronomy, 13*(3), 140-146. doi: 10.3923/ja.2014.140.146

42. Memarian, H., Balasundram, S. K., Abbaspour, K. C. Talib, J., **Teh, C. B. S.**, & Sood, A. M. (2014). Integration of analytic hierarchy process and weighted goal programming for land use optimization at the watershed scale. *Turkish Journal of Engineering & Environmental Sciences, 38*, 139-158. doi:10.3906/muh-1303-21

43. Memarian, H., Balasundram, S. K., Abbaspour, K. C. Talib, J., **Teh, C. B. S.**, & Sood, A. M. (2014). SWAT-based hydrological modelling of tropical land-use scenarios. *Hydrological Sciences Journal, 59*(10), 1808-1829. doi: 10.1080/02626667.2014.892598

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48. Chin, S. H. M., & **Teh, C. B. S.*** (2003). Inoculation of Azosprilum and Mycorrhiza on the growth and canopy architecture of maize (*Zea mays* L.). In Z. Eusof, C. I. Fauziah, Z. Z. Zakaria, K. J. Goh, Z. Malik & R. Abdullah (Eds), *SOILS 2003: Towards maximum land use and productivity* (p. 166). Serdang, Malaysia: Malaysian Society of Soil Science.

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51. Jalloh, M.B., Jamal, T., Ramlan,Wan Sulaiman, W.H., **Teh, C. B. S.**, & Rajan, A. (2002). RADINT: A model for light interception partitioning in immature-rubber, banana and pineapple hedgerow-intercropping system. In H. Z. E. Jaafar, M. S. Umi Kalsom, M. S. Madon, U. R. Sinniah & P. Elizabeth (Eds.), *Towards Sustainable*

Development in Forestry: New Paradigm for Plant Physiologists. Transactions of the Malaysian Society of Plant Physiology (pp. 53-55). Serdang, Malaysia: Malaysian Society of Plant Physiology.

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54. **Teh, C. B. S.***, Simmonds, L. P., & Wheeler, T. R. (2002). Modelling the partitioning of evapotranspiration in a maize-sunflower intercrop. In Z. J. Hawa, M. S. Umi Kalsom, K. J. Goh, Z. Z. Zakaria, C. I. Fauziah, F. K. Yew, M. M. Radzali & M. M. Yusoff (Eds.), *SOILS 2002: Applications of Modern Tools in Agriculture. Proceedings of the Malaysian Society of Soil Science 2002* (pp. 24-25). Serdang, Malaysia: Malaysian Society of Soil Science.
55. **Christopher, T. B. S.***, Mokhtaruddin, A. M., Husni, M. H. A., & Abdullah, M. Y. (1997). A simple equation to determine the breakdown of individual aggregate size fractions in the wet-sieving method. In J. Shamshuddin & J. Hamdan (Eds.), *Proceedings of the Soil Science Conference of Malaysia 1997* (pp. 1-9). Serdang, Malaysia: Malaysian Society of Soil Science.
56. **Christopher, T. B. S.***, & Mokhtaruddin, A. M. (1996). The underlying framework of aggregate stability measurements. In K. J. Goh, S. Paramananthan, B. H. Tee & A. R. Anuar (Eds.), *Proceedings of the Soil Science Conference of Malaysia 1996* (pp. 175-182). Serdang, Malaysia: Malaysian Society of Soil Science.
57. **Christopher, T. B. S.***, & Mokhtaruddin, A. M. (1996). Using factor analysis in soil science: A tool to summarize information. In B. Y. Aminuddin, A. B. Ismail, A. R. Ahmad & M. Z. Ghazali (Eds.), *Proceedings of the Soil Science Conference of Malaysia 1995* (pp. 171-178). Serdang, Malaysia: Malaysian Society of Soil Science.

8.9 Presentations (No proceedings/abstracts)

1. **Teh, C. B. S.*** (2024). Development and validation of an oil palm model for exploring climate change impact in Malaysia. Oil Palm Replanting Seminar 2024, 2-3 Dec. 2024, Sibu, Sarawak. The Incorporated Society of Planters, Central Sarawak Branch.
2. **Teh, C. B. S.*** (2024). Climate change and oil palm. In Paper presented at the 2024 Bilateral seminar. Mitigation of climate change in food crops and plantations. 3 February 2024, Sumatera, Indonesia (online).
3. **Teh, C. B. S.*** (2023). Soil and water conservation in oil palm plantations. In Paper presented at the Global Symposium on Soils and Water. Soil and water: A source of life. Food and Agriculture Organization of the United Nations. 2-5 October 2023, Rome, Italy (online).

4. Bockari-Gevao, S. M., Wan Ishak, W. I., Azmi, Y., **Teh, C. B. S.**, & Chan, C. W. (2005). A soil tilth index for Malaysian paddy soils. In Poster presented at the Pameran Rekacipta, Penyelidikan dan Inovasi 2005, UPM. 1-19 March 2005.
5. Noorehan, B., **Teh, C. B. S.***, Harun, H., & Fauzi, R. (2005). Mathematical characterisation of oil palm pinnae shape. In Poster presented at the Pameran Rekacipta, Penyelidikan dan Inovasi 2005, UPM. 1-19 March 2005.
6. **Teh, C. B. S.***, Henson, I. E., Harun, H., Goh, K. J., & Husni, M. H. A. (2005). Modelling oil palm growth and yield. In Poster presented at the Pameran Rekacipta, Penyelidikan dan Inovasi 2005, UPM. 1-19 March 2005.
7. **Teh, C. B. S.***, Jamal, T., & Nuranina, S. (2005). Dynamics of soil aggregate breakdown. In Poster presented at the Pameran Rekacipta, Penyelidikan dan Inovasi 2005, UPM. 1-19 March 2005.
8. **Teh, C. B. S.***, Yasin, S. M., & Kong, S. K. (2005). A random hop-and-fit computer algorithm to schedule academic courses. In Poster presented at the Pameran Rekacipta, Penyelidikan dan Inovasi 2005, UPM. 1-19 March 2005.
9. Jalloh, M. B., Wan Sulaiman, W. H., Jamal, T., Mohd. Fauzi, R., Rajan, A., & **Teh, C. B. S.** (2001). A simulation study: A model of light interception and utilisation by rubber-banana-pineapple hedgerow-intercropping system (SURHIS). In Poster presented at the Bengkel Penyelidikan Fakulti Pertanian. 16-18 October 2001. Uniten, Selangor.
10. **Teh, C. B. S.***, Simmonds, L. P., & Wheeler, T. R. (2001). Modelling the partitioning of radiation capture and evapotranspiration in intercropping systems. In Poster presented at the Bengkel Penyelidikan Fakulti Pertanian. 16-18 October 2001. Uniten, Selangor.
11. **Teh, C. B. S.***, Simmonds, L. P., & Wheeler, T. R. (2001). Modelling the partitioning of radiation capture and evapotranspiration in intercropping systems. In Poster presented at the Pameran Penyelidikan Institusi Pengajian Tinggi Awam. 25-28 October 2001, Putra World Trade Centre, Kuala Lumpur.
12. **Teh, C. B. S.***, Simmonds, L. P., & Wheeler, T. R. (2001). Modelling the partitioning of radiation capture and evapotranspiration in intercropping systems. In Poster presented at the Pameran Penyelidikan dan Pembangunan UPM (P&P). 2-4 October 2001, UPM, Selangor.
13. **Christopher, T. B. S.*** (1996). Should interactions be interpreted in the correct way or in the usual way? In *Advances in Soil, Plant and Fertilizer Analysis 1996*. Paper presented at the Seminar on Advances in Soil, Plant and Fertilizer Analysis 1996. 17-18 April 1996. Kuching, Sarawak.
14. Zauyah, S., Rosenani, A. B., & **Christopher, T. B. S.** (1995). Micromorphological study of the decomposition of oil palm empty fruit bunches and its effects on some soil properties. In G. Cadisch & K. E. Giller (Eds.), *Proceedings of Conference "Driven by Nature. Plant Litter Quality and Decomposition"*. Poster presented at the International symposium 'Driven by Nature: Plant Litter Quality and Decomposition', 17-20 Sept. 1995, Wye, UK.

8.10 Technical reports

1. **Teh, C. B. S.*** (2019). *Soil water flow model for avocado ver. 1.1.0. Report prepared for Harvester Technologies Limited, New Zealand*. Serdang, Malaysia: Uni. Putra Malaysia.

2. **Teh, C. B. S.*** (2017). *Potential use of a wastewater treatment plant sludge (SW204) and a spent active carbon (SW411) as a soil conditioner and to increase plant growth. Report prepared for CJ Bio (M) Sdn. Bhd. and Dept. of Environment (DOE) of Malaysia.* Serdang, Malaysia: Uni. Putra Malaysia.
3. **Teh, C. B. S.*** (2016). *Availability, use, and removal of oil palm biomass in Indonesia. Working paper prepared for International Council on Clean Transportation (ICCT).* Washington D.C., DC: International Council on Clean Transportation.

8.11 Bulletins and newsletters

1. **Teh, C. B. S.*** (2018). Guide to healthy soils workshop. *International Union of Soil Sciences (IUSS) Bulletin* (No. 132, June 2018), 45-46.
2. **Teh, C. B. S.*** (2018, April). Workshop on guide to healthy soils. *Malaysian Soil Science Society Newsletter* (Issue 1), p. 5.
3. Iba, J., & **Teh, C. B. S.*** (2007). An update of the analysis of Serdang's weather 1985-2007. *AgroSearch Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 12*, 33-44.
4. **Teh, C. B. S.*** (2003). A random hop-and-fit computer algorithm to schedule academic courses in UPM. *Agro-Search Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 9*, 23-27.
5. **Teh, C. B. S.***, Simmonds, L. P., & Wheeler, T. R. (2003). Reconstructing the shape and area of simple leaves. *Agro-Search Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 10*, 15-17.
6. Lim, K. B., Husni, M. H. A., Talib, J., Mahmud, T. M. M., & **Teh, C. B. S.** (2002). A computer program for preparing mixed fertilizers. *Agro-Search Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 9*, 13-14.
7. **Teh, C. B. S.*** (2002). A computer program to determine the soil texture class for any classification scheme. *Agro-Search Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 9*, 19-21.
8. **Teh, C. B. S.***, Simmonds, L. P., & Wheeler, T. R. (2001). New equations for canopy architecture. *Agro-Search Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 8*, 18-21.
9. **Teh, C. B. S.***, & Zauyah, S. (2001). The effects of empty fruit bunches on some soil physical properties after ten years of annual application. *Agro-Search Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 8*, 27-30.
10. Zauyah, S., **Christopher, T. B. S.**, Rosenani, A. B., & Mohd. Hashim, T. (1995). Micromorphological study of an ultisol after 10 years application of oil palm empty fruit bunches. *Agro-Search Research Bulletin Faculty of Agriculture, Uni. Putra Malaysia, 2*, 25.

8.12 Thesis

1. **Teh, C. B. S.** (2001). *Modelling the partitioning of captured solar radiation and evapotranspiration in intercropping systems* (Unpublished doctoral dissertation). The University of Reading, UK.
2. **Teh, C. B. S.** (1996). *Soil aggregate stability: Its evaluation and relation to organic matter constituents and other soil properties* (Unpublished Master's thesis). Universiti Pertanian Malaysia, Serdang.

3. Teh, C. B. S. (1994). *Changes in soil physical and morphological characteristics with empty fruit bunch application after 10 years* (Unpublished Bachelor's final year report). Universiti Pertanian Malaysia, Serdang.

9 Research activities

1. Project leader. "Integrating stochastic weather generation, oil palm modeling, and generative AI to advance agricultural education"; Geran Insentif Penyelidikan dalam Pengajaran dan Pembelajaran Berfokus (*Focused Incentive Grants Research of Teaching and Learning*) (GIPP); 2025-26; GIPP 9323794; RM16,000.
2. Project leader. “Predicting the risk and severity of oil palm to water stress using selected plant and soil indicators”; FRGS; 2022-25; FRGS/1/2022/WAB04/UPM/02/2; RM202,690.
3. Project leader. “Sustainable wastewater management of washed rice water. Its potential reuse as liquid plant fertilizer and soil amendment”; Skim Geran IPS UPM; 2022-24; GP-IPS/9709600; RM20,000.
4. Project leader; Skim Geran Penyelidikan Pembangunan Prototaip (*Prototype Research Grant Scheme*) (PRGS); 2019-2022; PRGS/1/2019/WAB01/UPM/02/1; RM81,000.
5. Project leader. "Flexible learning of the science of crop growth through the development of an Android mobile app for agriculture students in today’s Internet 4.0 age"; Geran Insentif Penyelidikan dalam Pengajaran dan Pembelajaran (*Incentive Grants Research of Teaching and Learning*) (GIPP); 2017-20; GIPP 9323724; RM12,000.
6. Project co-researcher. "Economic implication of global climate change on Malaysia palm oil production and exports”; FGRS; 2013-15; FRGS/2/2013/SS07/UKM/01/1; RM70,000.
7. Project leader. "Development of a spreadsheet software for students who are non-computer programmers to build and run mathematical models"; Geran Insentif Penyelidikan dalam Pengajaran dan Pembelajaran (*Incentive Grants Research of Teaching and Learning*) (GIPP); 2012-14; GIPP/9323614; RM14,000.
8. Project leader. “The use of silt pits in non-terraced hill slopes to conserve soil nutrients and to reduce water stress in oil palm trees”; Sciencefund MOSTI; 2012-14; 06-01-04-SF1430; RM95,000.
9. Project leader. “Predicting the impact of the expected climate change in Malaysia on the growth and yield of some leafy vegetable crops”; Research University Grant Scheme (RUGS); 2009-11; 01-01-09-0692RU; RM65,000.
10. Project co-researcher. “Infiltration under oil palm plantation: Heterogeneities from canopy to interspace”; UTM Research University Grant Scheme (RUGS); 2011-12; Q.J130000.7122.00J98; RM40,000.
11. Project co-researcher. “Mechanism of vertical water movement under oil palm plantation during and after rainfall”; UTM Fundamental Research Grant Scheme (FRGS); 2011-12; J13000078224F077; RM36,000.
12. Project co-researcher. “Development of pedotransfer functions for Malaysian soils”; UTM Short Term Research Grant - Foreign Academic Visitor Fund; 2011-12; .J130000772240049; RM30,000.

13. Project leader. “Rainfall interception by various tree canopy types estimated from leaf area index and gross rainfall only”; Fundamental IPTA UPM; 2009-11; 01-09-09-680FR; RM36,000.
14. Project leader. “Estimating the impact of climate change on oil palm growth and yield in Malaysia: The next 40 years”; Agriculture R&D Sciencefund Grant (Ministry of Agriculture, MOA); 2009-11; 05-01-04-SF1098; RM147,000.
15. Project leader. "To develop a sustainable practice to protect and manage soil fertility and water conservation for steepland oil palm"; 2006-08; IRPA RMK9; 05-01-04-SF0632; RM118,997.
16. Project leader. "Optimal fertiliser rates and time of application for oil palm grown in tropical peatland"; 2006-08; IRPA RMK9; No. 05-01-04-SF0633; RM 134,993.
17. Project leader. “A biochemical, process-based approach to model the canopy photosynthesis and flowering cycle of oil palm”; 2007-09; Fundamental Research Grant Scheme (FGRS); 05-10-07-369FR; RM48,000.
18. Project leader. "How the oil palm captures solar radiation and ways to optimise its capture for increased crop growth rate and yield"; Yayasan FELDA; 2004-07; RM100,000.
19. Project leader. "Modelling the oil palm growth and its microclimate environment"; IRPA EAR RMK8; No. 01-02-04-0686-EA001; 2003-06; RM131,500.
20. Project leader. "Determining how soil aggregates break down with time and the factors that affect the aggregate break down rate"; UPM Fundamental research; No. 03-07-03-065J; 2004-05; RM34,500.
21. Project leader. “Three-dimensional rendering of intercropping vegetation cover and modelling its radiation regime and evapotranspiration”; UPM New Lecturer Research Scheme; No. 53102; 2002-03; RM10,000.

10 Copyrights

1. IP:Copyright (FM2020007199, Malaysia), Use of Drone Technology in Agriculture, 2020, Video.
2. IP:Copyright (LY2020007200, Malaysia), PUTRAMOOC Module - Agriculture & Man, 2020, Literacy Work.
3. IP:Copyright (FM2020007202, Malaysia), Types of Meteorological Equipment, 2020, Video.
4. IP:Copyright (FM2020007201, Malaysia), Mineral Cycle Conservation in Goat Farm, 2020, Video.
5. IP:Copyright (LY2019000695, Malaysia), PySawit Web: Web-based oil palm growth and yield, 2019, Software.

11 Consultancy activities

11.1 Industry research grants

1. Project leader; “Enhancing leafy vegetable growth, yield, and soil fertility with Mawar Bio Organic Compound Fertilizer”; Mawar Bio Organic Sdn Bhd; 2024-25; RM48,030.

2. Project leader; "Eurochem: A pot trial to investigate the dissolution behaviour of different NPK fertilizers"; Eurochem Agro Asia Pte Ltd.; 2022-23; £14,000 (approx. RM64,000).
3. Project leader. "Potential use of Super-Boost (Vinasse Sugar Cane) as organic fertilizer and soil amendment"; 2022-23; Chemical Industries (Malaya) Sdn. Bhd.; RM46,400.
4. Project leader. "Potential use of sugarcane mud cake to improve the soil physicochemical and microbiological properties to increase the growth and yield of two leafy vegtables"; 2020-21; Urban Environmental Industries Sdn Bhd; RM31,970.
5. Project leader. "An assessment on impact of the projected climate change on the growth and yield of oil palm in Malaysia"; 2020; Solidaridad Network (M) Berhad; RM100,000.
6. Project leader. "Soil water flow model for avocado"; 2019; Harvester Technologies Limited, New Zealand; USD4,300 (approx. RM17,200).
7. Project leader. "Optimal fertilizer rates and their time of application for peat land oil palm"; 2015-19; Ta Ann Plantation Sdn. Bhd.; RM35,000.
8. Project leader. "Potential use of a Wastewater Treatment Plant Sludge (SW204) and a Spent Active Carbon (SW411) as a soil conditioner and to increase plant growth"; 2016-17; CJ Bio Malaysia Sdn. Bhd.; RM23,850.
9. Project leader. "*Mucuna bracteata* as a potential resource under oil palm"; 2014-16; Advanced Agroecological Research Sdn. Bhd.; RM30,000.
10. Project leader. "Evaluating the effectiveness of irrigation systems for use in rubber (*Hevea brasiliensis*) nurseries"; 2014-15; Humibox Sdn. Bhd.; RM15,000.
11. Project leader. "Analysis of oil drilling wastes and their suitability as a soil amendment and plant fertilizer"; 2006-08. KMC Oiltools Overseas (M) Limited. Level 11, One Catherdal Square, Port Louis, Mauritius. Branch office: KL; USD8,745 (approx. RM35,000).

11.2 Advisory

1. Research Consultant for "Water-use efficiency ideotype definition for oil palm using coupled weather generation and crop simulation modelling"; Applied Agricultural Resources Sdn Bhd; 2026-27.
2. Research Consultant for "Pertanian pintar ke arah pengurusan koko secara digital (P20001001210010) [*Smart agriculture towards digital management of cocoa*]"; Malaysian Cocoa Board; 2022-23.
3. Consultant/Advisor for CJ Bio Malaysia's application to Jabatan Alam Sekitar, Putrajaya on the Renewal of Written Notification for Special Management of Scheduled Waste SW411. 13 Apr. – 13 May 2021.
4. Research Theme Associate for Crops for the Future Research Centre (CFFRC), The Uni. of Nottingham, Malaysia Campus, Semenyih. 2014-present.
5. Council member of the Gerson Lehrman Group Councils, 301 Congress Avenue, Suite 900, Austin, Texas 78701, US. 2007-present.
6. Member of the Corporate Social Responsibility (CSR) Project for the development of soil pedons within UPM campus at Serdang and Puchong. CSR project for the Faculty of Agriculture, UPM by the Applied Agricultural Resources Sdn. Bhd. and Param Agricultural Soil Surveys (M) Sdn. Bhd. 3 April 2017 to 31 Dec. 2024.

7. Contracted to write white/working paper (technical report) “Use of palm oil residues as fertilizer or mulch in Indonesia” for International Council on Clean Transportation (ICCT). 2015-16.
8. Research adviser for “The effects of pulverized oil palm trunk material as a mulch for improving soil fertility”. 2013-15. Trunk Busters Sdn. Bhd.
9. Research adviser on the calibration and test of soil moisture meter. 2009-10. MEMS/NEMS cluster in MIMOS.
10. Research adviser for “Runoff losses and effect of compaction on the growth and yield of oil palm”. United Plantations Sdn. Bhd. 2005.

12 Memorandum of Understanding (MoU)

I helped to initiate, develop, and complete the following MoUs:

1. 5-year MoU signed between Uni. Putra Malaysia (UPM) and S. Seifullin Kazakh Agro Technical University (KATU), Astana, Kazakhstan, 2 July 2013.

13 International and university recognition

1. Awarded Sijil Penghargaan Anugerah Visibiliti Media Bidang Pertanian, Anugerah Visibiliti Media UPM 2025. Awarded in 2026
2. Awarded Anugerah Fellowship Naib Canselor 2024. Kategori Penganjar Cemerlang (Sains Gunaan). Awarded in 2025.
3. Awarded the Anugerah Visibiliti Media Bidang Pertanian, Anugerah Visibiliti Media UPM 2023. Awarded in 2024.
4. Awarded the 2024 Geran Putra Inisiatif: Inisiatif Permerkassan Penerbitan Jurnal Tahun 2024 by Uni. Putra Malaysia. Cash award RM6,000.
5. Awarded the Anugerah Penulis Harapan Bidang Pertanian, Anugerah Visibiliti Media UPM 2023..
6. First Place award in the Pertandingan Amalan Inovasi Pengajaran dan Pembelajaran Terbaik - Fakulti/Pusat (*Competition on the Best Practice of Teaching and Learning Innovation - Faculty/Centre*) 2016. 7 Nov. 2016. Awarded by Uni. Putra Malaysia.
7. Cash reward (RM1,000) and certificate for Excellent Service Award by Uni. Putra Malaysia for the following years:
    - 2023
    - 2020
    - 2014
    - 2005
8. Excellent Service Certificate awarded by Uni. Putra Malaysia for:
    - 2011 to 2019
    - 2001 to 2007

9. Awarded the 2012 Publication Incentive by Uni. Putra Malaysia in 2013. Cash award was RM5,031.79. This award is given for publication excellence for my article published in Agronomy Journal in 2012.
10. Bronze Medal award for teaching excellence 2011. Anugerah Pengajaran Putra Bagi Calon Pengajar Muda (*Putra Teaching Award for Young Lecturers*) 2011, Uni. Putra Malaysia. Awarded in 2012.
11. Shared Best Poster Award. 2011. "Induction of Al^{3+} and H^{+} toxicities of oil palm (*Elaeis guineensis*) seedlings and their effects on photosynthesis and nutrient uptake". SOILS2011 Conference. 19-21 April 2011, Kota Kinabalu, Sabah.
12. Shared Best Poster Award. 2009. "Effects of different soil conservation practices on soil chemical properties in a sloping land oil palm plantation". MSPPC 2009. 20th Malaysian Society of Plant Physiology Conference. Port Dickson. 24-26 July 2009
13. Shared Best Poster Award. 2003. "Modelling the dynamics of growth and yield in an immature-rubber, banana and pineapple intercropping system". SOILS 2003 Soil Science Conference of Malaysia at Kota Bharu, 15-16 April 2003.
14. Shared Bronze medal for research. 2003. "The inoculation effects of Azospirillum and Mycorrhiza on the growth and canopy architecture of maize (*Zea mays* L.)". Pameran Rekacipta dan Penyelidikan (*Innovation and Research Exhibition*) Uni. Putra Malaysia. 8-10 July 2003.
15. Best Poster Award 2002. "Modelling the partitioning of solar radiation capture and evapotranspiration in intercropping systems". SOILS 2002 Soil Science Conference of Malaysia at Perlis, 23-24 April 2002.
16. Full scholarship for Ph.D. study at The University of Reading, UK in 1997-2001. Awarded by Uni. Putra Malaysia.

14 Community/social/extension activities

14.1 Urban farming/gardening activities

1. Lead facilitator, Grow, Prune & Propagate Workshop, organized by the Department of Land Management, Faculty of Agriculture, Universiti Putra Malaysia, in conjunction with Eats, Shoots & Roots (ESR), Sep. 20, 2025. Held at Wisma YWCA, Kuala Lumpur.
2. Organizing chairperson, 'Soil-tastic Day', organized by the Department of Land Management, Faculty of Agriculture, Universiti Putra Malaysia, in conjunction with World Soil Day 2023, Nov. 18, 2023. Held at the Faculty of Agriculture, UPM.
3. Regular writer for the "Plants & Gardens Subang Jaya" section for the SJ Echo newspaper. May 2019 – May 2021.
4. Regular writer for the "Plant Doctor" section for the Healthy Garden series, under Home & Garden section in The Star newspaper. Apr. 2023 – Oct. 2024.
5. Chairperson for the organizing committee and lecturer for the "Urban Gardening Workshop 2019 Series: How to Have a Healthy Garden" organized by the Dept. of Land Management (Fac. of Agriculture, UPM) and Gardeners' Gold MY. Held at the Faculty of Agriculture, UPM, Serdang, 6 & 13 July 2019.
6. Guest speaker for "General Plant Care: Types of Soil, Watering Method, Plant Nutrition & Pest Prevention", UCSI Sustainable Development Goal office's initiative

(UCSI Green Corner), organized by UCSI University. Held at UCSI University 30 May 2019.

7. Guest speaker for “Plant Watering”, Go Go Green 3 organized by Gardeners’ Gold MY. Held at The School @ Jaya One, Petaling Jaya, 6-7 April 2019.
8. Guest speaker, Bloom & Grow Workshop Event organized by Impact Communications and Setapak Central Mall, KL. Held at Setapak Central Mall, Kuala Lumpur, 6-8 July 2018.
9. Chairperson for the organizing committee and lecturer for the “Guide to Healthy Soils 2018 Workshop” organized by the Dept. of Land Management (Fac. of Agriculture, UPM), Malaysian Society of Soil Science (MSSS), and Eats, Shoots and Roots Sdn Bhd. Held at the Faculty of Agriculture, UPM, Serdang, 3-4 Feb. 2018.
10. Lecturer and demonstrator, “Soil Health” Workshop by UNMC (University of Nottingham Malaysia Campus) Sustainable Environmental Education Network (SEEN). Held at UNMC, Semenyih, Selangor, 21 Nov. 2017.
11. Guest Contributor to “Dear Plant Doctor” section in the “Ready, Set Grow!” column by Eats, Shoots and Roots Sdn. Bhd. in the Star2 section of The Star newspaper, March to December 2017. I contributed 10 articles for this “Dear Plant Doctor” section.
12. Lead Facilitator, “Sayur in the City: Edible Garden Workshops”, Plant Food Workshop by Eats, Shoots and Roots Sdn. Bhd. Held at Bukit Gasing, Petaling Jaya, Selangor, 18 Feb. 2017.
13. Lead Facilitator, “Sayur in the City: Edible Garden Workshops”, Dirt, Soil & Earth Workshop by Eats, Shoots and Roots Sdn. Bhd. Held at Bukit Gasing, Petaling Jaya, Selangor, 8 Oct. 2016.

14.2 Mass media involvement/publications

1. Radio Selangor. (2026, Feb. 10). Cuaca Tidak Menentu dan Kesannya Kepada Hasil Pertanian: Interview with C. B. S. Teh [Radio interview]. Hello Selangor I-Nutrisi FM100.9.
2. Radio Televisyen Malaysia. (2024, Dec. 5). Kepentingan Tanah Kepada Kehidupan: Interview with C. B. S. Teh [Television interview]. Selamat Pagi Malaysia tv1.
3. Teh, C. B. S. (2024, October 30). Growing cherries (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
4. Teh, C. B. S. (2024, October 16). Tackling green shoots in white bucidas (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
5. Teh, C. B. S. (2024, October 2). Easy-case plants for balconies (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
6. Teh, C. B. S. (2024, September 18). Natural ways to manage pests (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
7. Teh, C. B. S. (2024, September 4). Pollinator-friendly plants (p. 5). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
8. Teh, C. B. S. (2024, August). Between mulch and compost (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
9. Teh, C. B. S. (2024, August). Beginners’ guide to growing vegetables (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.

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18. Teh, C. B. S. (2024, May). Caring for *Bucida variegata* (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
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20. Teh, C. B. S. (2024, April). Innovations crucial for sustainable agriculture (p. 12). [Newspaper letter]. Your Opinion. Petaling Jaya, The Star newspaper.
21. Teh, C. B. S. (2024, April). Growing a healthy lemon tree (p. 8). [Newspaper article]. Petaling Jaya, The Star, Home & Garden section.
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