

105 年度臺大實驗林同仁所發表之報告

(一) 期刊

1. 吳立偉、陳亭瑋、徐堉峰 2016 建立臺灣地區線蛺蝶 (線蛺蝶亞科:蛺蝶科) 的生物條碼資料庫。臺大實驗林研究報告 30(4):277-292.
2. 林大利、劉威廷、郭福麟、池文傑、林瑞興、丁宗蘇、吳采諭* 2016 台灣小虎鵝之首次繁殖巢測量紀錄。臺大實驗林研究報告 30(1):27-36。
3. 洪志遠、謝尚賢、林聖峰、富田匡俊、蔡明哲、莊閔傑*、卡艾偉* 2016 學生在頂石課程的學習表現:木構造橋樑的設計與建造。臺大實驗林研究報告 30(3):119-216。
4. 曹崇銘、蔡明哲、蘇大成、周崇光、黃景祥、吳章甫、洪志遠 2016 交通汙染對溪頭環境污染之研究。臺大實驗林研究報告 30(1):71-83。
5. 莊閔傑*、鄭森松、李佳如、蔡明哲 2016 利用國產疏伐木開發具傳統榫接特色之文創商品(III)。臺大實驗林研究報告 30(3):227-246。
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8. 陳勇至、王亞男、王介鼎 2016 總體基因體學在森林學上的應用。臺大實驗林研究報告 30(2):139-152。
9. 陳秋萍、鄭智馨、蔡明哲、白創文 2016 臺大實驗林鳳凰茶園土壤性質之研究。臺大實驗林研究報告 30(3):187-198。
10. 陳陽發、王介鼎、楊平世、王億傑 2016 臺大實驗林溪頭自然教育園區螢火蟲資源調查。臺大實驗林研究報告 30(1):11-26。
11. 陳陽發、楊智凱、林育綺、林容諄、徐堉峰 2016 臺大實驗林鳳凰自然教育園區之天蛾科(昆蟲綱:鱗翅目)調查。臺大實驗林研究報告 30(3):217-226。
12. 陳韻婷、阮巽雯、黃金城、王亞男、夏滄琪、劉素玲*2016 炭化溫度 500°C 牛糞活性碳對銅離子吸附之研究。臺大實驗林研究報告 30(3):177-186。
13. 楊智凱、許淨淳、劉威廷、黃憶汝、郭福麟、吳采諭、陳陽發 2016 南投縣信義鄉校園木本植物多樣性調查與分析。臺大實驗林研究報告 30(2):85-98。

14. 劉怡秀、林群雅、張銀珏、鄭森松*、張上鎮* 2016 香桂葉子精油及其成分之抗病媒蚊幼蟲活性。臺大實驗林研究報告 30(1)：1-10。
15. 劉威廷、呂碧鳳、黃曜謀、楊智凱 2016 確認臺灣產之三種鱗毛蕨屬植物。臺大實驗林研究報告 30(4)：293-302。
16. 劉威廷、楊智凱、王亞男、張倍誠 2016 鳳凰山區附生維管束植物調查研究。臺大實驗林研究報告 30(1)：37-54。
17. 蔡有方、劉蘇閔、葉信廷、柯俊成 2016 臺灣地區茶小綠葉蟬(半翅目：葉蟬科)大量飼養與施放之潛力。臺大實驗林研究報告 30(2)：113-122。
18. 衛強、葉惠中、陳彥璋、鄭克聲 2016 臺大實驗林轄區不同重現期距延時設計暴雨及年月雨量之序率模擬。臺大實驗林研究報告 30(3)：153-176。
19. 謝忠諺、陳忠義、葉信廷、王亞男 2016 屏東平地造林地黯斑棕卷裙裳蛾對印度紫檀的危害評估。臺大實驗林研究報告 30(2)：109-118。
20. 顏佩翎、鄭森松*、張上鎮* 2016 臺灣櫟材部及樹皮乙醇抽出物抗氧化及抗發炎活性之初探。臺大實驗林研究報告 30(4)：247-258。
21. 羅明慧 2016 溪頭柳杉林蒸發散特性之研究。臺大實驗林研究報告 30(4)：303-312。
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27. Cheng, C. H., S. C. Hsiao, Y. S. Huang, C. Y. Hung, C. W., Pai, C. P. Chen, O. V. Menyailo. 2016. Landslide-induced changes of soil physicochemical properties in Xitou, Central Taiwan. *Geoderma* 265:187-195. (SCI)
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30. Chiu C. I., H. T. Yeh, M. J. Tsai, H. F. Li. 2016. Naturalization and control of *Coptotermes gestroi* (Blattodea: Rhinotermitidae) in a Taiwanese forest. *Journal of Economic Entomology* 109(3): 1317-1325. (SCI)
31. Hoseinzadeh E., C. Wei, E. Chavoshi. Rumeshgan well water quality using nitrate pollution index and groundwater quality index: A study based on contour mapping using geographic information system, submitted to *Desalination and Water Treatment*, article on line (SCI)
32. Hoseinzadeh E., C. Wei, M. R. Samarghandi, M. Safari. Evaluation of Rainwater Quality using Factor Analysis: Case Study of Khorramabad in western Iran, submitted to *Desalination and Water Treatment*, article on line (SCI).
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37. Li H. F., H. T. Yeh, C. I. Chiu, C. Y. Kuo, M. J. Tsai. 2016. Vertical distribution of termites on trees in two forest landscapes in Taiwan. *Environmental Entomology* 45(3): 577-581. (SCI)
38. Lin C. J., C. J. Lee, M. J. Tsai. 2016. Inspection and evaluation of decay damage in Japanese cedar trees by nondestructive techniques. *Arboriculture & Urban Forestry* 42(3): 201–212.
39. Lin, L. D., F. C. Chang, C. H. Ko, C. T. Wang. 2016. Bamboo-Derived Fuel from *Dendrocalamus latiflorus*, *Phyllostachys makinoi*, and *Phyllostachys pubescens* Waste. *BioResources*. 11(4): 8425-8434.
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44. Chang, Y. H., Wu, S. J., Chen, B. Y., Huang, H. W., Wang, C. Y. 2017. Effect of high pressure processing and thermal pasteurization on overall quality parameters of white grape juice. *Journal of the Science of Food and Agriculture*. Accepted. (SCI)
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(二) 研討會論文

1. 呂亞融、吳采諭、柯智仁、陳宛均、林瑞興 (2016) 以公民科學資料估算族群數量—以台灣繁殖鳥類大調查為例。2016 年動物行為生態研討會。臺中。(摘要)
2. 呂亞融、吳采諭、柯智仁、陳宛均、林瑞興 (2016) 以公民科學資料估算族群數量—以台灣繁殖鳥類大調查為例。2016 年第十一屆海峽兩岸鳥類學術研討會。臺中。(摘要)
3. 余家斌、蔡明哲、楊智凱、吳采諭、林家民 (2016) 臺大實驗林森林療育活動生心理減壓效益研究。第七屆海峽兩岸生物多樣性與森林文化保護研討會。南投杉林溪森林生態度假園區。
4. 林大利、劉威廷、郭福麟、池文傑、林瑞興、丁宗蘇、吳采諭* (2016) 台灣小虎鵲之首次繁殖巢測量紀錄。2016 年動物行為生態研討會。嘉義。(海報)
5. 林大利、劉威廷、郭福麟、池文傑、林瑞興、丁宗蘇、吳采諭* (2016) 台灣小虎鵲之首次繁殖巢測量紀錄。2016 年第十一屆海峽兩岸鳥類學術研討會。臺中。(海報)
6. 柯智仁、池文傑、林瑞興、丁宗蘇、吳采諭* (2016) 溪頭自然教育園區之遊客量對鳥類日鳴唱模式之影響。2016 年動物行為生態研討會。臺中。(摘要)
7. 蔡明哲、楊智凱、吳采諭、陳婉玲、林麗貞 (2016) 「療育之森」的評估與建構—以臺大實驗林為例。第十一屆環境保護林經營管理研討會。嘉義林業試驗所中埔分所。(Oral presentation)
8. 楊智凱、劉威廷、陳陽發、陳秋萍 (2016) 臺大實驗林溪頭自然教育園區庭園紀念樹之探源。第七屆海峽兩岸生物多樣性與森林文化保護研討會。南投杉林溪森林生態度假園區。(Oral presentation)
9. 鄭森松*、莊閔傑、林群雅、張上鎮、鍾年鈞 (2016) 臺灣針葉五木材部精油應用於植物病原菌防治之評估。2016 中華林產事業協會學術論文暨研究成果研討會。南投。105 年 5 月 27 日臺大實驗林溪頭自然教育園區。(Oral)
10. 鄭森松*、陳育涵、張上鎮 (2016) 天然資材應用於褐根病菌之防治—臺灣杉為例。第七屆海峽兩岸生物多樣性與森林保護文化研討會。南投。105 年 9 月 23 日杉林溪森林生態度假園區。(Oral presentation)

11. 鄭雅文、李佳如、楊德新 (2016) 奈米無機物應用於熱處理竹材改質之研究。
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13. Chang F. C.*, Tsai M. J. Agricultural waste derived fuel from camellia meal. 9th
International Conference on Combustion, Incineration/Pyrolysis, Emission and
Climate Change, September 21-23, 2016, Kyoto, Japan.
14. Chung-Yi Wang, Sz-Jie Wu, Ying-Wei Chen, Hsiao-Wen Huang, Yuan-Tay Shyu.
2016. Anti-inflammatory activity of high pressure-assisted extracts of *Grifola
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China. (poster)
15. Chun-Lin Li. 2016. Unveiling the rare diversity of scarab beetles in Taiwan and
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16. Hsiao-Wen Huang, Ming-Jer Tsai, Chung-Yi Wang. 2016. Comparing high pressure,
ultrasonic and traditional heat for extraction flavonoids from *Ginkgo biloba* leaves.
Institute of Food Technologists (IFT) Annual Meeting & Food Expo, July 16-19.
Chicago, IL, USA. (poster)
17. Hsueh-Wen Lih, Chieh-Ting Wang, Hong-Chi Jhou, Yung-Chih Chen, Shu-Hui
Liao and Ya-Nan Wang (2016) The effects after thinning of Japanese cedar at Xitou.
The 12th Annual meeting “Durable agriculture-Agriculture of the Future”
AGROCV-02 Craiova, Romania. Nov. 17, 2016.
18. Jui-Chu Yu, Po-Neng Chiang, Yen-Jen Lai, Ting-Chieh Wu. 2016. Litterfall
dynamics and nutrient analysis of four native tree species- A case study in south of
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19. Ko C. H., Yu F. C., Chen S. L., Chang F. C., Yang B. Y., Chen K. S., Chen W. H.,
Hwang W. S. Bioethanol production from the recovered napier grass for heavy
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Development of Energy Water and Environment Systems, June 15-18, 2016, Piran,
Slovenia.
20. Lai, Yen-Jen, P. H. Lin, T.H. Wey 2016 Observations on fog/low cloud pattern under

- climate change in central Taiwan. 7th International Conference on Fog, Fog Collection and Dew July 24-29, 2016. Wroclaw, Poland. (Poster)
21. Lai, Yen-Jen 2016. Comparison of long-term temperature trends between subalpine and alpine Area of EXFO-NTU, Taiwan. The 7th symposium of Asian university forest consortium. October 10-15, 2016. Furano, Hokkaido, Japan. (Poster)
 22. Laplace S., Kume T., 2016. Characteristics of the Evapotranspiration of a Japanese Cedar Montane Cloud Forest in Xitou, Taiwan. 7th International Conference on Fog, Fog Collection and Dew, Poster presentation.
 23. Lin, Po-Hsiung, M.D. Tzeng, Y. J. Lai, H.Ch. Cheung 2016 The characteristics of Fog size spectrum at Xitou mountain valley and Kinmen Island. 7th International Conference on Fog, Fog Collection and Dew July 24-29, 2016. Wroclaw, Poland. (Poster)
 24. Lu Y. J., Tsai M. J., Chang F. C.* Forest waste derived fuel with waste cooking oil. 8th International Conference on Applied Energy, October 8-11, 2016, Beijing, China.
 25. Po-Neng Chiang, Jui-Chu Yu, Yen-Jen Lai. Annual variation of soil respiration in subtropical afforestation forest in Taiwan. Japan Geoscience Union Meeting 2016. May 21-26, 2016. Makuhari, Chiba, Japan. (Poster)
 26. Po-Neng Chiang, Yen-Jen Lai, Jui-Chu Yu. 2016. Assessment of soil carbon and soil respiration impact during forest restoration process. Asia Oceania Grosciencs Society 2016. July 31- August 5. Beiging, China.
 27. Su-Ling Liu, Sun-Wen Juan, Jin-Cheng Huang, Ming-Jer Tsai, Tsang-Chyi Shiah, Kun-Tsung Lu. Adsorption of chromium ions on ma bamboo activated carbon at different pH values. The 66th Annual Meeting of the Japan Wood Research Society (JWRS). March 27-29, 2016. Nagoya University, Nagoya, Aichi, Japan. (Poster)
 28. Sun-Wen Juan, Ching-Hua Ting, Jin-Cherng Huang and Su-Ling Liu*. Hydrogen-Rich Syngas Production from Bamboo Vinegar Using Solar Heat. The 66th Annual Meeting of the Japan Wood Research Society (JWRS). March 27-29, 2016. Nagoya University, Nagoya, Aichi, Japan. (Poster)
 29. Wei Chiang, Hui-Chung Yeh, Yen-Chang Chen and Ming-Jer Tsai, 2016. Assessment on the change detection of forestland using Worldview satellite imagery

in central Taiwan, 41st COSPAR Scientific Assembly, Istanbul, Turkey. (accepted for oral presentation, Assembly cancelled due to series bombing and military coup in Istanbul)

30. Wei Chiang, Raymond Leong and Ming-Jer Tsai, 2016. Long-term monitoring of forestland in NTUEF by Remote Sensing, GIS and GPS, 7th Symposium of Asian University Forest Consortium, Furano, Hokkaido, Japan. (accepted for poster presentation)
31. Wey Tsong-Huei, Y. J. Lai, P. H. Lin 2016 The Studies on the Relationship Between Mountain Valley Breeze and Upslope Fog at Xitou Region in Central Taiwan 7th International Conference on Fog, Fog Collection and Dew July 24-29, 2016. Wroclaw, Poland. (Poster)

(三) 其他

1. 林群雅、陳盈如、鄭森松、張上鎮 (2016) 臺灣森林芬多精釋出量監測及其功效—以柳杉為例。林業研究專訊 23(3)：24-27。
2. 楊智凱、葉信廷 (2016) 臺灣的盔蘭屬植物-森林底層的安全帽很危亟。自然保育季刊 93：54-65。
3. 葉信廷、蔡明哲、李俊鋒 (2016) 白蟻與樹木、森林健康的關係以及珍貴樹木的保護。農業世界雜誌 391 期：8-13 頁。
4. 蔡明哲、楊智凱、吳采諭、陳婉玲、林麗貞 2016 療育之森-臺大實驗林的新使命。林業研究專訊 133：14-17。