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空氣與土壤輻射研究室(EP305)



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近五年研究室之重點發表成果(SCI論文)

1. **Chih-Chung Lin**, John Karl Exiomo Macrohon, Peter Brimblecombe, Latonia Nur Adyanis, Chi-Fu Yeh, Chin-Hsing Lai, Lin-Chi Wang*, "Atmospheric mercury speciation and concentration at the urban and industrial sites in Taiwan over a three-year period" *Atmospheric Environment*, Vol. 313, 120070, ISSN 1352-2310, <https://doi.org/10.1016/j.atmosenv.2023.120070>. November 2023. (*Corresponding author) (SCI)
2. **Chih-Chung Lin**, Jen-Hsiung Tsai, Yi-Chin Hsieh, Shui-Jen Chen*, "Beehive Fireworks Festival Effect on the Nearby Atmospheric PM_{2.5} Level", *Aerosol and Air Quality Research*, 23, 220389. <https://doi.org/10.4209/aaqr.220389>, February 2023 (SCI) (*Corresponding author)
3. Wei-Hsiang Huang, **Chih-Chung Lin**, Yung-Yu Liu, Chao-Min Huang, Yi-Lung Yeh, Ting-Chien Chen, "Activity concentrations and bioconcentration factors (BCFs) of natural radionuclides (⁴⁰K, ²²⁶Ra, and ²³²Th) from cultivated substrates to mushrooms" *Environmental Science and Pollution Research* Vol.29, pp.82512–82523, June 2022.
4. Wei-Hsiang Huang, Chao-Min Huang, **Chih-Chung Lin**, Yi-Lung Yeh, Ting-Chien Chen, "Assessment of Doses from Ingestion of Radionuclides ⁴⁰K, ¹³⁷Cs, ²²⁶Ra and ²³²Th in Edible Commercial Mushrooms from Taiwan" *Radiation Protection Dosimetry*, Vol. 198, Issue 20, pp. 1557–1564, December 2022.
5. Wei-Hsiang Huang, Chao-Min Huang, Ting-Chien Chen*, Yung-Yu Liu, **Chih-Chung Lin**, Yi-Lung Yeh "Soil to tobacco component transfer factors for natural radionuclides ⁴⁰K, ²²⁶Ra, and ²³²Th and the risk assessment of tobacco leaf in smoking" *Journal of Environmental Science and Health, Part A*, Vol. 57, Issue 9, pp. 737-745, Jul 2022.

目前研究重點

- 1.泥火山天然放射性核種
- 2.PM_{2.5}、PM₁對人體健康影響

研究計畫

泥火山放射性核種及金屬特性探討(NSTC112-2221-E020-003)



元素分析儀



大氣PM_{2.5}採樣器



離子層析儀



總貝他加馬能譜分析儀



高純度半導體純鍺偵檢器



TSI手提式直讀式懸浮微粒偵測器



攜帶式pH測量儀及EC測量儀