

講題：

The Mystery of Matrix-Assisted Ionization in Mass Spectrometry

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Current Position:

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Education:

國立清華大學化學所博士 (2007)

Professional Experience:

中央研究院基因體中心 博士後研究. (2007-2011)

中央研究院原分所 博士後研究. (2012-2015)

Department of Chemistry, Wayne State University 博士後研究 (2015-2016)

靜宜大學應用化學系 助理教授 (2017-2018)



Area of expertise and research:

質譜技術、儀器設計、化學動力學

Selected publications:

1. Yi-Hsin Chen, I-Chung Lu,*. A Novel Ion Source for a Portable Mass Spectrometer. *Rapid Communications in Mass Spectrometry*, **2019**, online (doi: 10.1002/rcm.8503)
2. I-Chung Lu, Efstathios A. Elia, Wen-Jing Zhang, Milan Pophristic, Ellen D. Inutan, Charles N. McEwen, Sarah Trimpin. Development of an Easily Adaptable, High Sensitivity Source for Inlet Ionization. *Analytical Methods*, **2017**, 9, 4971-4978.
3. I-Chung Lu, Milan Pophristic, Richard G. McKay, Charles N. McEwen, Sarah Trimpin. Simplifying the Ion Source for Mass Spectrometry. *Rapid Communications in Mass Spectrometry*, **2016**, 30(23), 2568-2572.
4. I-Chung Lu, Chuping Lee, Yuan-Tseh Lee, and Chi-Kung Ni. Ionization Mechanism of Matrix-Assisted Laser Desorption/Ionization. *Annual Review of Analytical Chemistry*, **2015**, 8, 21-39.
5. I-Chung Lu, Kuan Yu Chu, Chih-Yuan Lin, Shang-Yun, Wu, Yuri A. Dyakov, Jien-Lian Chen, Angus Gray-Weale, Yuan Tseh Lee, Chi-Kung Ni. Ion-to-Neutral Ratios and Thermal Proton

Transfer in Matrix-Assisted Laser Desorption/Ionization. *Journal of The American Society for Mass Spectrometry*, **2015**, 26(7), 1242-1251.

6. I-Chung Lu, Chuping Lee, Hui-Yuan Chen, Hou-Yu Lin, Sheng-Wei Hung, Yuri Dyakov, Kuo-Tung Hsu, Chih-Yu Liao, Yin-Yu Lee, Cheng-Ming Tseng, Yuan Tseh Lee, and Chi-Kung Ni, Ion Intensity and Thermal Proton Transfer in Ultraviolet Matrix-Assisted Laser Desorption/Ionization, *The Journal of Physical Chemistry B*, **2014**, 118(15), 4132–4139.