

Curriculum Vitae - Xi YU

Xi YU

Assistant Professor

Food and Nutrition Science Programme, Faculty of Medicine

Macau University of Science and Technology

Avenida Wai Long Taipa, Macau

Tel: 853-65931310

E-mail: xyu@must.edu.mo

<https://scholar.google.com.sg/citations?user=z7f93MgAAAAJ&hl=en>

Educational qualifications

Ph.D. National University of Singapore-*Food Science and Technology*

M.S. Jilin University-*Analytical Chemistry*

B.S. Jilin University-*Chemistry*

Employment history

Asst. Prof., Food and Nutrition Science Programme, Faculty of Medicine, MUST 2019.9-

Postdoc Research Fellow, Nanyang Technological University, Singapore 2018.10-2019.8

Research Associate, Dalian Institute of Chemical Physics, CAS, China 2013.7-2014.7

Research Interest

Food Science and Technology; Food Safety; Analytical Chemistry;
Nanotechnology; Instrumental analysis.

Journal Publications

[1] **Yu X**, Lee J, Liu H, Yang H*. Synthesis of Magnetic Nanoparticles for the Detection of Sudan Dye Adulteration in Chilli Powders. *Food Chemistry*. 2019, 299, 125144.

[2] **Yu X**, Khani A, Ye X, Petruzzello F, Gao H, Zhang X*. High-efficiency recognition and identification of disulfide bonded peptides in rat neuropeptidome using targeted electron transfer dissociation tandem mass spectrometry. *Analytical Chemistry*. 2015, 87(23), 11646-51.

[3] **Yu X**, Li Z, Zhao M, Lau S, Tan H, Tan S, Yang H*. Quantification of aflatoxin B1 in vegetable oils using low temperature clean-up followed by immuno magnetic solid phase extraction. *Food Chemistry*. 2019, 275, 390-396. **(ESI highly cited paper)**

[4] **Yu X**, Li Y, Ng M, Yang H*, Wang S. Comparative study of pyrethroids residue in fruit peels and fleshes using polystyrene-coated magnetic nanoparticles based clean-up techniques. *Food Control*. 2018,85, 300-307.

[5] **Yu X**, Yang H*. Pyrethroid residue determination in organic and conventional vegetables using liquid-solid extraction coupled with magnetic solid phase extraction based on polystyrene-coated magnetic nanoparticles. *Food Chemistry*. 2017, 217, 303-10. **(ESI highly cited paper)**

[6] **Yu X**, Ang HC, Yang H*, Zheng C, Zhang Y. Low temperature cleanup combined with magnetic nanoparticle extraction to determine pyrethroids residue in vegetables oils. *Food Control*. 2017, 74, 112-20.

[7] **Yu X**, Sun Y, Jiang C, Sun X, Gao Y, Wang Y, Zhang H, Song D*. Magnetic solid-phase extraction of five pyrethroids from environmental water samples followed by ultrafast liquid chromatography analysis. *Talanta*. 2012, 98(0), 257-64.

- [8] **Yu X**, Sun Y, Jiang CZ, Gao Y, Wang YP, Zhang HQ, Song D*. Magnetic solid-phase extraction and ultrafast liquid chromatographic detection of Sudan dyes in red wines, juices, and mature vinegars. *Journal of Separation Science*. 2012, 35(23), 3403-11.
- [9] Ye X, Zhao N, **Yu X**, Han X, Gao H, Zhang X*. Extensive characterization of peptides from panax ginseng ca meyer using mass spectrometric approach. *Proteomics*. 2016, 16(21), 2788-2791.
- [10] Jiang C, Sun Y, **Yu X**, Gao Y, Zhang L, Wang Y, Zhang H, Song D*. Application of C 18-functional magnetic nanoparticles for extraction of aromatic amines from human urine. *Journal of Chromatography B*. 2014, 947, 49-56.
- [11] Jiang C, Sun Y, **Yu X**, Gao Y, Zhang L, Wang Y, Zhang H, Song D*. Liquid–solid extraction coupled with magnetic solid-phase extraction for determination of pyrethroid residues in vegetable samples by ultra fast liquid chromatography. *Talanta*. 2013, 114, 167-75.
- [12] Gao Y, Sun Y, Jiang C, **Yu X**, Wang Y, Zhang H, Song D*. Fast determination of pyrethroid pesticides in tobacco by GC-MS-SIM coupled with modified QuEChERS sample preparation procedure. *Analytical Sciences*. 2013, 29(6), 649-653.
- [13] Wang C, Wang Y, Wang N, Jiang C, **Yu X**, Song D*. Matrix solid phase dispersion coupled with ultra-fast liquid chromatography for detection of sulfonamides in beef tissue. *Chinese Journal of Analytical Chemistry*. 2013, 41(1), 83-7.
- [14] Wang Y, Sun Y, Wang Y, Jiang C, **Yu X**, Gao Y, Song D*. Determination of Sudan dyes in environmental water by magnetic mesoporous microsphere-based solid phase extraction ultra fast liquid chromatography. *Analytical Methods*. 2013, 5(6), 1399-406.
- [15] Jiang C, Sun Y, Yu X, Zhang L, Sun X, Gao Y, Zhang H, Song D*. Removal of sudan dyes from water with C 18-functional ultrafine magnetic silica nanoparticles. *Talanta*. 2012, 89, 38-46.
- [16] Sun X-M, Sun Y, Wu L-W, Jiang C-Z, **Yu X**, Gao Y, Song D*. Development of a vortex-assisted ionic liquid microextraction method for the determination of aromatic amines in environmental water samples. *Analytical Methods*. 2012, 4(7), 2074-80.

Other Publications

- [1] Safety and Practice for Organic Food, Chapter 5: From a Perspective of Nutrition: Importance of Organic Foods over Conventional Counterparts. Zheng Y; **Yu X**; Yang H*; Wang S. Elsevier. 2019.
- [2] Novel detection method for Sudan dye pollution in water, Song D, Sun Y, Jiang C, **Yu X**, Zhang L, Sun X, Gao Y. Patent No.: ZL201110157977.0, Date of Issuance: Nov. 14th, 2012.

Proceedings

- (1) Yu X, Ng M, Yang H. Comparative study of pyrethroids residue in fruit peels and flesh using solid-liquid extraction combined with magnetic solid phase extraction. International Association for Food Protection (IAFP) European Symposium on Food Safety. 29-31 Mar 2017, Brussels, Belgium.
- (2) Yu X, Yang H. Determination of pesticides residue in vegetables using magnetic solid phase extraction coupled to HPLC. 4th Asia-Pacific International Food Safety Conference & 7th Asian Conference on Food and Nutrition Safety, 11-13 Oct 2016, Penang, Malaysia.
- (3) Yu X, Yang H, Comparative study of pyrethroids residue in fruit peels and flesh using solid-liquid extraction combined with magnetic solid phase extraction. Inaugural Department of Chemistry Graduate Symposium of NUS, 12 Aug 2016, Singapore.

- (4) Yu X, Yang H. Determination of pesticides residue in vegetables using magnetic solid phase extraction coupled to HPLC. Joint Symposium on Food Science and Technology between NUS and Kasetsart University. 23 Feb 2016, Singapore.
- (5) Yu X, Yang H. Utilising nanoparticles to enhance pyrethroids residue determination in organic and conventional vegetables. 8th Joint Symposium on Food Science and Technology between NUS and TUMSAT, 3-4 Dec 2015, Singapore.

Selected Awards and Honours

2019: "Best Postgraduate Award", Department of Food Science and Technology, NUS;

2018: Research work reported by the Strait Times, Channel 8 news, Spinoff.com, AZONano, Phys.org, Nanowerk, Connected to India, NUS FoS News and NUS PRESS RELEASE;

2016: "Award of Excellence", Top 1st of Analytical Chemistry and Energy/Environment Category, Chemistry Graduate Symposium, NUS;

2016: Research work got supported by Arawana Nutrition and Safety Research Grant, Wilmar;

2013: "Honoured Graduate" and National Graduate Scholarship, JLU;

2011: "PPG Industries Scholarship", JLU.