**Maryna F. Zui (M.F. Tulyupa)**

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**Current position:** Associate Professor at the Chair of Analytical Chemistry

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**HIGHER EDUCATION**

**1988** – Ph.D. degree in Chemistry at Taras Shevchenko National University of Kyiv

**1982-1986** – Ph.D. student, Chemistry Department, Taras Shevchenko State University of Kyiv, Ukraine

**1981-1982** –student, Chemistry Department, Kyiv Taras Shevchenko State University

**1977-1981** – student, Chemistry Department, Dnipropetrovsk State University

**CAREER DEVELOPMENT**

**June, 2003 − till now** – Associate Professor at the Chair of Analytical Chemistry at Taras Shevchenko National University of Kyiv, Kyiv, Ukraine

**1996 – 2003** - Assistant Professor at the Chair of Analytical Chemistry at Taras Shevchenko National University of Kyiv, Kyiv, Ukraine

**1988 – 1996** – Researcher at the Chair of Analytical Chemistry at Kyiv State University (now Taras Shevchenko National University), Kyiv, Ukraine

**1986 – 1988** – Junior Researcher of Chair of Analytical Chemistry at Kyiv State University (now Taras Shevchenko National University), Kyiv, Ukraine

**PARTICIPATION IN PROJECTS, PROFESSIONAL DEVELOPMENT COURSES**

**February-March 2022 –** professional development course at National University of Food Technology, Kyiv, Ukraine

**February 2017** – short-term courses on teaching effectiveness at the Chair of Analytical and Bioinorganic Chemistry of National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine

**2011 – 2013 −** participation in the preparation and conducting of training seminars on the determination of chemical warfare, which were held at the Department of Analytical Chemistry of Taras Shevchenko National University of Kyiv with the financial support of the International Organization for the Prohibition of Chemical Weapons (OPCW).

**June 2007- August 2007** – acquaintance with study process and scientific research at Kyoto University, Japan

**August 1999 − June 2000** − participant of Fulbright JuniorFaculty Development Program, Colorado School of Mines, Golden, Colorado, USA.

**February-March, 1989** – short-term courses on High Performance Liquid Chromatography at Kyiv Polytechnical University, Kyiv, Ukraine.

**TEACHING:**

Giving courses: Environmental Analytical Chemistry, Chemical Toxicological Analysis for master’s degree students at Chemistry Department; conducting seminars and laboratory works on courses "Fundamentals of Analytical Chemistry" and "Instrumental Methods of Analytical Chemistry" for students at Chemistry Department; conducting lectures and laboratory works on "Chemistry" for students at Institute of Biology and Medicine of Taras Shevchenko National University of Kyiv.

The supervisor of bachelor's and master's degree diplomas. The total number of diploma works under M.F. Zui’s supervision: bachelors - 26, masters - 25.

During 2006-2013 was the supervisor of 20 scientific works of high school students at Junior Academy of Sciences.

Scientific supervisor of two Ph.D. students’ works:

1.V.M. Levchyk “Liquid microextraction preconcentration of benzophenones and parabens with gas chromatographic detection”.

2. I.B. Zakharkiv ”Microextraction preconcentration and gas chromatographic determination of phthalates and aliphatic aldehydes”.

**SCIENTIFIC INTERESTS**

* Development of new methods of solid phase and liquid phase extraction and microextraction with gas chromatographic and high performance liquid chromatographic determination of polar and semi-polar organic compounds: preservatives, plasticizers, flavors, toxicants in varied matrices and biomarkers in bioliquids.
* Investigation of new sorbents and coatings of hybrid nature for solid phase extraction and microextraction methods.
* Sorption preconcentration of halogen- and selenium- containing compounds on organomineral sorbents, followed by their determination by atomic absorption and atomic emission spectroscopy methods in various matrices.

**THE MOST SIGNIFICANT WORKS:**

**TEXTBOOKS:**

1. М.Ф.Зуй, С.О. Лелюшок, О.А. Запорожець, О.М. Желіба, Л.О. Тітова. Аналіз природних вод та ґрунтів. Навчальний посібник. Київ: LAT&K. 2017. 182 c.
2. М.Ф. Зуй. Аналітична хімія екологічних і біологічних токсикантів. Київ 2022. 96 с.

<https://anchem.knu.ua/books/zuy/Analyt-chem-eco-biotoxic_Zuy.pdf>

1. М.Ф. Зуй, В.М. Зайцев, Л.С. Костенко. Хімічні аспекти глобального потепління. ВПЦ Київський університет, 2003, 31c.
2. М.Ф. Зуй. Хімічний склад та аналіз основних компонентів грунтів. Київ. 2003. 26 с.

<https://anchem.knu.ua/books/zuy/soil.pdf>

**PAPERS:**

1. Igor Zakharkiv, Maryna Zui, Vladimir Zaitsev. [Determination of Phthalate Esters in Water and Liquid Pharmaceutical Samples by Dispersive Liquid-Liquid Microextraction (DLLME) and Gas Chromatography with Flame Ionization Detection (GC/FID)](https://www.tandfonline.com/doi/abs/10.1080/00032719.2019.1711384). Analytical Letters. 2020. 53 (7), 1-18.
2. B.A. Shnayder, V.M. Levchyk, M.F. Zui, N.G. Kobylinska. [Hybrid Organosilica Coatings for Solid Phase Microextraction: Highly Efficient Adsorbents for Determination of Trace Parabens](javascript:void(0)). Protection of Metals and Physical Chemistry of Surfaces. 2019. 55 (4), 657-666.
3. V. Levchyk, M. Zui. [Solid-phase microextraction of benzophenones coupled with gas chromatography analysis](javascript:void(0)). French-Ukrainian Journal of Chemistry. 2016. 4 (2), 55-62
4. M.V. Bakun, I.B. Zakharkiv, M.F. Zui. [Determination of phthalates in pharmaceutical products](javascript:void(0)). Methods and objects of chemical analysis. 2016. 11 (2), 100-104.
5. I.B. Zakharkiv, M.F. Zui, V.N. Zaitsev. [Dispersive liquid-phase microextraction for determination of phthalates in water](javascript:void(0)). Journal of Water Chemistry and Technology. 2015. 37 (2), 78-84.
6. V.M. Levchyk, M.F. Zui. [Gas Chromatographic determination of parabens after derivatization and dispersive microextraction](javascript:void(0)). French-Ukrainian Journal of Chemistry. 2015. 3 (2), 72-79.
7. I.B. Zakharkiv, M.F. Zui, V.M. Zaitsev. [Preconcentration of aliphatic aldehydes C1-C5 as o-(2, 3, 4, 5, 6-pentafluorobenzyl) hydroxylamine derivatives by dispersive liquid phase microextraction](javascript:void(0)). Methods and objects of chemical analysis. 2015. 10 (3), 113-118.
8. V.N. Zaitsev, M.F. Zui. [Preconcentration by solid-phase microextraction](javascript:void(0)). Journal of analytical chemistry. 2014. 69 (8), 715-727.
9. V.N. Zaitsev, U.U. Malytska, V.M. Levchyk, M.F. Zui. .[Hollow fiber liquid phase dispersive microextraction of parabens](javascript:void(0)). Methods and objects of chemical analysis. 2014. 9 (3), 109-117.
10. V.M. Levchyk, M.F. Zui, V.N. Zaitsev. [Capillary and dispersive microextraction of diphenylketones](javascript:void(0)). Journal of Water Chemistry and Technology. 2014. 36 (5), 217-224.

Zui M. is the author of 12 patents of Ukraine. Also she is a participant of more than 50 international and Ukrainian scientific conferences.