

CURRICULUM VITAE

PERSONAL DATA

Surname: Kalaboka

Professional Address: Section of Pharmacognosy & Chemistry of Natural Products Department of Pharmacy, National and Kapodistrian University of Athens Panepistimiopolis, Zografou 15771, Athens, Greece

First Name: Merina

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Academic Position: Post-Doctoral Researcher **tel:**

Date of Birth: 21/04/87

fax:

Place of Birth: Amaliada

EDUCATIONAL QUALIFICATIONS

-PhD in Analytical Chemistry . Dept. of Chemistry, University of Ioannina, Greece

Doctorate Thesis:

“Development of analytical methods based on sample preparation and Liquid Chromatography High-Resolution Mass Spectrometry for the determination of Emerging Contaminants”.

-Master of Science (MSc) in Analytical Chemistry Techniques & Applications

Dept. of Chemistry, University of Ioannina, Greece (Honors, Grade 10/10) Master Thesis: “*Development and characterization of magnetic nanoparticles for the environmental analysis of Emerging Contaminants*”

-Bachelor of Science (BSc, 4-year studies degree) in Chemistry

Dept. of Chemistry, University of Ioannina, Greece. Senior Thesis: “*Determination of colistin with analytical techniques in biological fluids and Pharmacokinetics*”.

RESEARCH INTERESTS

-Expert on LC-MS techniques, with emphasis on **HRMS** (>4 years-experience in the **Orbitrap** mass analyzer)

-Extraction techniques: **SPE, MSPE, MSPD, LLE, SPME, dSPE, USE, QuEChERS**, etc. for the determination of emerging contaminants in environmental matrices, food and biological fluids and tissues.

-Experience (> 9 years) in following instrumentation: HPLC-UV-Vis-DAD, GC-MS, GC-FID, GC-ECD, LC-MS

-Analytical method development and validation according to European requirements for the evaluation of micropollutants and xenobiotics in environmental samples, food, biological matrices

-Synthetic strategies for fabrication of sorbent materials (magnetic nanoparticles based on graphene, iron oxide modified with silica etc.) for sample preparation and advanced oxidation processes.

-Material Characterization techniques (XRD, SEM, FT-IR, UV-Vis)

-Physicochemical behavior/fate of organic pollutants in the environment (kinetics, degradation mechanisms)

-Eco-toxicological Risk Assessment

-Degradation and purification process for the mineralization of organic micropollutants in sewage and fresh waters (adsorption, oxidation processes, homogenous/ heterogeneous photocatalysis)

PARTICIPATION IN CONFERENCES

1. M. Kalampoka, Chatzimitakos T, V. Boti, Stalikas C., V. Sakkas and T., Albanis "Magnetic Graphene Oxide Solid-Phase Extraction of Selected Pharmaceuticals from Environmental Waters" 11th International Conference on Instrumental Methods of Analysis, IMA in Ioannina, Epirus, Greece, on 22-25 September 2019.
2. C. Jiménez-Holgado, C. Chrimatopoulos, M. Kalaboka, V. Sakkas "Fabric Phase Sorptive Extraction for the determination of Antidepressant Drugs in Environmental Samples prior To HPLC-DAD" 11th International Conference on Instrumental Methods of Analysis, IMA in Ioannina, Epirus, Greece, on 22-25 September 2019.
3. C. Chrimatopoulos, C. Jiménez-Holgado, M. Kalampoka, V. Sakkas "Determination of Three Antidepressant Drugs by Fabric-Phase Sorptive Extraction (FPSE) coupled to HPLC-UV/DAD DAD" 11th International Conference on Instrumental Methods of Analysis, IMA in Ioannina, Epirus, Greece, on 22-25 September 2019.
4. M. Kalampoka, V. Boti, V. Sakkas and T. Albanis, "Rapid and Sensitive analysis of major use antibiotics by UHPLC-High Resolution Orbitrap MS" 10th International Conference on Instrumental Methods of Analysis, IMA, 17-21 September 2017, Heraklion-Crete.
5. P. Calza, C. Gionco, M. Giletta, M. Kalampoka, V. Sakkas, T. Albanis, M.-C. Paganini, "Acesulfame K photocatalytic degradation using cerium doped ZnO catalysts and TiO₂" 9th European Conference on Pesticides and Related Organic Micro-pollutants in the Environment", October 4-7 2016, Santiago de Compostela, Galicia, Spain
6. M. Kalaboka, C. Hadjicostas, P. Calza, V. Sakkas C. Minero, and T. Albanis, "Assesment of the degradation of risperidone on different photocatalysts", Innovative Materials and Methods for Tertiary Water Treatment (1st Mat4treat Workshop, Alcoy, Spain 8-10 February 2016)
7. V. Sakkas, C. Hadjicostas, P. Calza, C. Minero, M. Kalaboka and T. Albanis, "Photocatalytic transformation of the antipsychotic drug risperidone in aqueous media on reduced graphene oxide-TiO₂ composites: synthesis, characterization and degradation kinetics", 4th European Conference on Environmental Applications of Advanced Oxidation Processes, October 21-24 2015, Athens, Greece
8. M. Kalampoka, V. Sakkas, C. Stalikas, T. Albanis, "Synthesis of C18 magnetic nanoparticles for the determination of C60 fullerene in water", 8th European Conference on Pesticides and Related Organic Micro-pollutants in the Environment", September 17-21 2014, Ioannina, Greece

9. M.Kalampoka, V. Sakkas, C.Stalikas,T.Albanis, "Magnetic Solid Phase Extraction with C18-coated Fe₃O₄ magnetic nanoparticles for the determination of C₆₀ fullerenes in water samples" 16th International Symposium on Advances in Extraction Technologies, May 25-28 2014, Chania, Greece

10. M. C. Kalampoka, V. A. Sakkas, C. D. Stalikas and T. A. Albanis "Application of magnetic solid phase extraction for the determination of C₆₀-fullerene in water samples" 8th International Conference on Instrumental Methods of Analysis - Modern Trends and Applications (IMA 2013), September 15-19 2013, Thessaloniki, Greece

LANGUAGES

Greek (native speaker), English, Italian, French, and Spanish

PUBLICATIONS

Maria Kalaboka, Christoforos Chrimatopoulos, Cristina Jiménez-Holgado, Vasiliki Boti, Vasilios Sakkas and Triantafyllos Albanis "Exploring the Efficiency of UHPLC-Orbitrap MS for the Determination of 20 Pharmaceuticals and Acesulfame K in Hospital and Urban Wastewaters with the Aid of FPSE", Separations.

Jorge A. Donadelli, Bruno Caram, Maria Kalaboka, Margarita Kapsi, Vasilios A.Sakkas, Luciano Carlos, Fernando S.García Einschlag "Mechanisms of 4-phenylazophenol elimination in micro- and nano-ZVI assisted-Fenton systems", Journal of Environmental Chemical Engineering

V. A. Sakkas, M. Sarro, M. Kalaboka, V. Santoro, T. Albanis, P. Calza, and C. Medana, "Evaluating the photocatalytic treatment of stevioside by TiO₂ in different aqueous matrices and identification of transformation products," Science of Total Environment

P. Calza, C. Gionco, M. Giletta, M. Kalaboka, V.A. Sakkas, T. Albanis, M.C. Paganini, "Assessment of the abatement of acelsulfame K using cerium doped ZnO as photocatalyst", Journal of Hazardous Materials