



► Nika Maria Christina

Ph.D. Student at University of Athens

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Education

B.Sc. in Chemistry (2006-2011), University of Athens, Grade: 7.27/10

M.Sc. in Chemical Analysis & Quality Control (2011-2014), University of Athens, Grade 9.43/10

Ph.D. in Analytical Chemistry (03/2014-Present), University of Athens

Research Topic:

Undergraduate Thesis: “Determination of pesticides residues in baby foods by liquid chromatography-tandem mass spectrometry”, Pesticide Residues Laboratory, General Chemical State Laboratory of Greece (2011).

Master Thesis: “Investigation of by-products’ formation of emerging pollutants during tertiary wastewater treatment’s process by mass spectrometric techniques”, Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2012-2014).

Ph.D. Thesis: “Identification of transformation products of emerging pollutants during tertiary wastewater treatment process and during their disposal in the environment by mass spectrometric techniques”, Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2014-Present).

Research Interests

General research interests:

- Reversed Phase Liquid Chromatography (RP-LC) and Hydrophilic interaction chromatography (HILIC)
- High Resolution Mass Spectrometry (HRMS)
- Wastewater tertiary treatment processes (chlorination, ozonation, UV-treatment), Identification of unknown compounds (suspect and non-target screening approaches)
- Risk assessment
- Environmental Chemistry (monitoring of emerging contaminants in environmental samples)

Projects:

- 2014 -2015: **TREMEPOL Project**, ARISTEIA, Ministry of Education: Transformation Products of Emerging Pollutants in the aquatic environment

- 2016-2017: **EMBLAS II**, EU/UNDP Project: Improving environmental monitoring in the Black Sea. Analysis of water framework priority substances and screening of black sea specific pollutants in water biota and sediment samples obtained during the National Pilot Monitoring Studies and Joint Open Sea Surveys and risk assessment of identified pollutants.

Publications in journals

- Maria-Christina Nika, Anna A. Bletsou, Elena Koumaki, Constantinos Noutsopoulos, Daniel Mamais, Athanasios S. Stasinakis, Nikolaos S. Thomaidis “Chlorination of benzothiazoles and benzotriazoles and transformation products identification by LC-HR-MS/MS” *Journal of Hazardous Materials*, **2016**, 323, 400-413 (doi:10.1016/j.jhazmat.2016.03.035).
- Christophoros Christophoridis, Maria-Christina Nika, Reza Aalizadeh, Nikolaos S. Thomaidis “Ozonation of ranitidine: effect of experimental parameters and identification of transformation products” *Science of The Total Environment*, **2016**, 557-558 (doi:10.1016/j.scitotenv.2016.03.026).
- Elena Koumaki, Daniel Mamais, Constantinos Noutsopoulos, Maria-Christina Nika, Anna A. Bletsou, Nikolaos S. Thomaidis, Alexander Eftaxiasa, Georgia Stratogianni “Degradation of emerging contaminants from water under natural sunlight: The effect of season, pH, humic acids and nitrate and identification of photodegradation by-products” *Chemosphere*, **2015**, 138 (doi:10.1016/j.chemosphere.2015.07.033).
- Constantinos Noutsopoulos, Elena Koumaki, Daniel Mamais, Maria-Christina Nika, Anna A. Bletsou, Nikolaos S. Thomaidis “Removal of endocrine disruptors and non-steroidal anti-inflammatory drugs through wastewater chlorination: the effect of pH, total suspended solids and humic acids and identification of degradation by-products” *Chemosphere*, **2015**, 119 Supplement, (doi: 10.1016/j.chemosphere.2014.04.107).

Conferences Presentations

- Ilias Tsilikidis, Maria-Christina Nika Christophoros Christophoridis, Nikolaos S. Thomaidis, Identification of ozonation transformation products of furosemide using LC-HR-MS/MS, 14th International Conference on Environmental Science and Technology (CEST **2015**), 03-05/09/2015, Rodos Palace, Rhodes, Greece.
- Ilias Tsilikidis, Christophoros Christophoridis, Maria-Christina Nika, Nikolaos S. Thomaidis, Ozonation of furosemide under various physicochemical conditions. Elucidation of transformation pathway using LC-QTOF-MS., 9th Aegean Analytical Chemistry Days (AACD 2014), 29/09-03/10/**2014**, Homerion Cultural Centre, Chios Greece.
- Maria-Christina Nika, Anna A. Bletsou, Evangelos Gikas and Nikolaos S. Thomaidis, Degradation and by-products identification of benzothiazoles and benzotriazoles during chlorination by LC-HR-MS/MS, 5th EuCheMS Chemistry Congress, 31/08-4/09/**2014**, WOW Convention Center, Istanbul, Turkey (**awarded**).
- Noutsopoulos C., Mamais D., Thomaidis N.S., Koumaki E., Nika M., Bletsou A. and Stasinakis A.S. “Removal of emerging pollutants through wastewater disinfection”, 13th International Conference on Environmental Science and Technology (CEST), 5-7/09/**2013**, Divani Caravel Hotel, Athens, Greece.
- Maria-Christina Nika, Anna Bletsou, Evangelos Gikas and Nikolaos Thomaidis, Investigating the degradation and by-product formation of benzothiazoles and benzotriazoles during chlorination, 8th International Conference IMA 2013-Instrumental Methods of Analysis-Modern Trends and Applications, 15-19/09/2013, Porto Palace Hotel, Thessaloniki, Greece.
- A.Economou, M.C. Nika, A. Papanastasiou, S. Antoniou, D. Tsipi, E. Botitsi Determination of Selected Pesticides in Cereal-based Infant and Baby Foods with QuEChERS Sample

Clean-up and Liquid Chromatography-Tandem Mass Spectrometry Detection”, 8th Aegean Analytical Chemistry Days, 10-16/09/**2012**, İzmir Institute of Technology (IZTECH), Urla-İzmir, Turkey.

Awards and Honors

- Poster Award, poster presentation at the 5th EuCheMS Chemistry Congress, Turkish Chemical Society and European Association for Chemical and Molecular Sciences, 2014.
- Scholarship for Ph.D. studies, A.G. Leventis Foundation, 2014-2017.

Professional Affiliations

- Association of Greek Chemists, 2012-Present
- Hellenic Mass Spectrometry Society, 2012-Present

Contact information

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