Dr. ANNA-AKRIVI THOMATOU

Email: athomatu@upatras.gr

Studies

Undergraduated studies: Department of Environmental and Natural Resources Management, University of Ioannina (2005)

Ph.D. Thesis: Department of Environmental and Natural Resources Management, University of Ioannina (2012), "Determination of pesticide residues and N,P levels and their diffusion in a selected lake of Aitoloakarnania prefecture"

Courses

Engineering Hydrology

Research interests

- Development, optimization and application of analytical methods to control the presence of organic pollutants and N,P in natural waters
- Development, calibration and application of passive sampling method for organic pollutants in natural waters
- Fate and behavior of organic pollutants in aquatic samples
- Control of pesticide residues and risk assessment
- Determination of water quality parameters with remote sensing techniques
- Geographical origin identification of agricultural products
- Use of Geographical Information Systems (G.I.S)

Selected publications

1. A.A. Thomatou, I. Zacharias, D. Hela, I. Konstantinou, (2011), Passive sampling of selected pesticides in aquatic environment using polar organic chemical integrative samplers, Environmental Science and Pollution Research, 18(7): 1222-1233.
2. Chalkia E., Zacharias I., Thomatou A.A., & Kehayias, G. (2012). Zooplankton dynamics in a gypsum karst lake and interrelation with the abiotic environment, Biologia, 67(1): 151-163.
3. A.A. Thomatou, I. Zacharias, D. Hela, I. Konstantinou, (2013a), Determination and risk assessment of pesticide residues in lake Amvrakia (W. Greece) after agricultural land use

changes in the lake's drainage basin, International Journal of Environmental Analytical Chemistry, 93(7): 780-799.

4. Anna-Akrivi Thomatou, Marianna Triantafyllidou, Ekaterini Chalkia, George Kehayias, Ioannis Konstantinou, Ierotheos Zacharias, (2013b), Land use changes do not rapidly change the trophic state of a deep lake. Amvrakia Lake, Greece, Journal of Environmental Protection, 4: 426-434.
5. A.A. Thomatou, M. Antonopoulou, F. Michail, I. Konstantinou, (2015), Laboratory calibration of twelve pesticides using polar organic chemical integrative samplers, International Journal of Environmental Analytical Chemistry, 95: 1230-1241.
6. George Tsirogiannis, Anna-Akrivi Thomatou, Eleni Psarra, Eleni C. Mazarakioti, Katerina Katerinopoulou, Anastasios Zotos, Achilleas Kontogeorgos, Angelos Patakas, Athanasios Ladavos, (2022), Probabilistic Machine Learning for the Authentication of the Protected Designation of Origin of Greek Bottarga from Messolongi: A Generic Methodology to Cope with Very Small Number of Samples, Appl. Sci. 2022, 12: 6335.
7. Anna-Akrivi Thomatou, Eleni Psarra, Eleni C. Mazarakioti, Katerina Katerinopoulou, Georgios Tsirogiannis, Anastasios Zotos, Achilleas Kontogeorgos, Angelos Patakas, Athanasios Ladavos, (2022), Stable Isotope Analysis for the Discrimination of the Geographical Origin of Greek Bottarga 'Avgotaracho Messolongiou': A Preliminary Research, Foods, 11: 2960.
8. Mazarakioti, E.C.; Zotos, A.; Thomatou, A.-A.; Kontogeorgos, A.; Patakas, A.; Ladavos, A., (2022), Inductively Coupled Plasma-Mass Spectrometry (ICP-MS), a Useful Tool in Authenticity of Agricultural Products' and Foods' Origin. Foods, 11: 3705
9. Anna-Akrivi Thomatou, Eleni C. Mazarakioti, Anastasios Zotos, Achilleas Kontogeorgos, Angelos Patakas and Athanasios Ladavos, (2023) Application of Stable Isotope Analysis for Detecting the Geographical Origin of the Greek Currants "Vostizza": A Preliminary Study. Foods, 12: 1672
10. Anna-Akrivi Thomatou, Eleni C. Mazarakioti, Anastasios Zotos, Efthimios Kokkotos, Achilleas Kontogeorgos, Angelos Patakas and Athanasios Ladavos, (2024) Stable Isotope Ratio Analysis for the Geographic Origin Discrimination of Greek Beans "Gigantes-Elefantes" (Phaseolus coccineus L.). Foods, 13: 2107
11. Eleni C. Mazarakioti, Anastasios Zotos, Vassilios S. Verykios, Efthymios Kokkotos, Anna-Akrivi Thomatou, Achilleas Kontogeorgos, Angelos Patakas and Athanasios Ladavos, (2024) Multi-Elemental Analysis and Geographical Discrimination of Greek "Gigantes Elefantes" Beans Utilizing Inductively Coupled Plasma Mass Spectrometry and Machine Learning Models. Foods, 13: 3015