



## **MSc Chatzichristou. D. Christina**

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### **EDUCATION**

Department of Chemistry, University of Ioannina (1987). Master MSc: ‘‘The Wastewater Management’’, Hellenic Open University (2010).

### **EDUCATIONAL EXPERIENCE**

11/06/90 – 30/11/90 Biochemical Laboratory in the General Hellenic Hospital of Kavala.

1992 –1993 Professor of Organic Chemistry and Biochemistry in the technical Department of the General Hellenic Hospital of Kavala.

1997-2013 Laboratory Assistant in the Laboratory of Instrumental Analysis – Analytical Chemistry in the Department of Petroleum and Mechanical Engineering Sciences, Eastern Macedonia and Thrace Institute of Technology.

02/03/15-03/07/15 Laboratory Assistant of Instrumental Analysis in the Department of Oenology and Beverage Technology in the Eastern Macedonia and Thrace Institute of Technology (EMaTTech).

15/02/16-24/06/16 Laboratory Assistant of Instrumental Analysis in the Department of Oenology and Beverage Technology in the Eastern Macedonia and Thrace Institute of Technology (EMaTTech).

01/03/17-30/06/17 Laboratory Assistant of Instrumental Analysis in the Department of Oenology and Beverage Technology in the Eastern Macedonia and Thrace Institute of Technology (EMaTTech).

01/03/18-30/06/18 Laboratory Assistant of Instrumental Analysis in the Department of Oenology and Beverage Technology in the Eastern Macedonia and Thrace Institute of Technology (EMaTTech).

28/02/19-12/04/19 Laboratory Assistant of Instrumental Analysis in the Department of Oenology and Beverage Technology in the Eastern Macedonia and Thrace Institute of Technology (EMaTTech).

12/04/19- since present: Lecturer of Analytical Chemistry- Instrumental Analysis in the Department of Chemistry in the International Hellenic University of Kavala in Greece.

05/10/10-30/06/16: Professor of Analytical Chemistry, Cosmetology, Pharmaceutical Technology in the Institute of Vocational Training of Kavala.

### **RESEARCH PROGRAMS**

2019 - 2021 ‘‘Black Sea Basin interdisciplinary cooperation network for sustainable joint monitoring of environmental toxicants migration, improved evaluation of ecological state and human health impact of harmful substances, and public exposure prevention – MONITOX’’

2019 – 2020 ‘‘Monitoring and exploitation of the Riparian Areas of the Municipality of Drama’’

1998 – 1999 ‘‘Quality control of potable water’’, in the Kavala area.

2000 – 2011 ‘‘Quality control of potable water using chemometrical approach’’.

01/05/2004 – 31/12/2005 ‘‘Archimedes: Application of analytical methods in the study of organic residues in ancient ceramic utensils’’.

### **LIST OF RELATIVE PUBLICATIONS**

1. Sophia Mitkidou, Nikolaos Kokkinos, Elissavet Emmanouilidou, Yusuf Yohannah, Thomas Spanos, Christina Chatzichristou and Antoaneta Ene ‘‘Investigation of Petroleum Hydrocarbon Fingerprints of Water and Sediment Samples of the Nestos River Estuary in Northern Greece, Appl. Sci., 12(3), 2022.
2. Spanos, T., Mittas, N., Chatzichristou, C., Dermentzis K., Topi V., Spanou D.S., Ene., Teodorof L., Zubcov, E., Bogdevich, O., ‘‘Evaluation of Potable Groundwater Quality Using Environmetrics. The case of Nestos and Strymon River Regions, Northern Greece’’, Journal of Engineering Science and Technology Review 14(1), pp. 114-118, 2021.
3. Dermentzis K., Karakosta K., Chatzichristou C., Spanos T., ‘‘Comparing Chemical Coagulation and Electrocoagulation on removal efficiency of Chromium (VI) from Galvanic Effluents’’, Journal of Engineering Science and Technology Review, 14(2), pp. 54-58, 2021.

4. Thomas Spanos, Antoaneta Ene, Chrysoula STYLIANI PATRONIDOU and Christina XATZIXRISTOU “Temporal variability of sewage sludge heavy metal content from Greek waste water treatment plants”, *Ecol Chem Engs* 23(2), 271-283, 2016.
5. Thomas Spanos, Antoaneta Ene, Christina Xatzichristou, Agelos Papaioannou “Assessment of Groundwater Quality and Hydrological Profile of Kavala Area, Northern Greece” *Romanian Journal of Physics* 60 (7-8) 1139-1150, 2015.
6. K. Dermentzis\*, E. Valsamidou, C. Chatzichristou, S. Mitkidou, Decolorization Treatment of Copper Phthalocyanine Textile Dye wastewater by, Electrochemical Methods, *Journal of Engineering Science and Technology, Review* 6 (1), 33-37, 2011.
7. Dermentzis KI, Davidis AE, Dermentzi AS, Chatzichristou CD: A electrostatic shielding-based coupled electro dialysis/electrodeionization process for removal of cobalt ions from aqueous solutions. *Water Sci Technol*;62(8):1947-53, 2010.
8. K. Dermentzis\*, K. Ouzounis, C. Chatzichristou, A. Dermentzi, “Ammonia removal from fertilizer plant effluent streams by an electrostatic shielding based coupled electro dialysis/electrodeionization process”, *Global NEST Journal*, (submitted 2010).
9. Thomas Spanos, Vasil Simeonov, John Stratis, Xatzixristou Christina “Assessment of Water Quality for Human Consumption”, *Microchim. Acta* 141, 35-40 (2003).

#### **PARTICIPATION IN INTERNATIONAL CONFERENCES -JOURNAL ARTICLES**

1. Cristina Despina, Teodorof Liliana, Daniela SeceleanuOdor, Adrian Burada, Mihaela Tiganus, Cosmin Spiridon, Marian Tudor, Antoaneta Ene, Christina Chatzichristou, "Variations of heavy metals contamination in bottom sediments in the maritime sector of Danube River", *MONITOX International Conference “Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin”* Kavala, GREECE, September 8 th-11th, 2020.
2. Antoaneta Ene, Thomas Spanos, Elena Zubcov, Oleg Bogdevich, Liliana Teodorof, Laurentia Ungureanu, Igor Nicoara, Adrian Burada, Cristina Despina, Christina Xatzichristou, "Natural radioactivity and risk to population in selected recreational and beach sites from Black and Aegean Seas in Romania and Greece", *MONITOX*

- International Conference “Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin” Kavala, GREECE, September 8th-11th, 2020.
3. Thomas Spanos, Nikolaos Mittas, Christina Chatzichristou, Sophia Mitkidou, Konstantinos Dermentzis, Nikolaos Kokkinos, Vilson Topi, Despina Selina Spanou, Antoaneta Ene, Oleg Bogdevich, Elena Zubcov, Liliana Teodorof, "Evaluation of groundwater quality through environmetrics. The case of Nestos and Strymon River regions, Northern Greece, MONITOX International Conference “Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin” Kavala, GREECE, September 8th-11th, 2020.
  4. Christina Chatzichristou, Thomas Spanos, George Zaimis, Antoaneta Ene, Konstantinos Dermentzis, Vilson Topi, Cristina Despina, "Assessment of physicalchemical characteristics of surface water in Nestos River: a review", MONITOX International Conference “Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin” Kavala, GREECE, September 8th-11th, 2020.
  5. Eustratios Kampantais, Nikolaos Mittas, Sophia Mitkidou, Nikolaos Kokkinos, Despoina Babouki, Dafni Ntakaki, Thomas Spanos, Christina Xatzichristou, "Chemometric analysis on arsenic contamination of surface water in Kavala Prefecture", MONITOX International Conference “Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin” Kavala, GREECE, September 8th-11th, 2020.
  6. Valasia Iakovoglou, Georgios, Giatas<sup>2</sup>, Georgios Pagonis, Anastasia Savvopoulou, Iordanis Kasapidis, Pavlos Kiourtziadis, Christina Chatzichristou, Vilson Topi, Thomas Spanos, George N. Zaimis, "Sustainable urban riparian areas – The case study of Drama city", MONITOX International Conference “Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin” Kavala, GREECE, September 8th-11th, 2020.
  7. Konstantinos Dermentzis, Kokkoni Karakosta, Christina Chatzichristou, Thomas Spanos, "Removal of chromium (VI) from galvanic effluents by chemical coagulation and electrocoagulation", MONITOX International Conference “Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin” Kavala, GREECE, September 8th-11th, 2020.
  8. Cristina Despina, Adrian Burada, Daniela Seceleanu-Odor, Mihaela Tiganus, Spiridon Cosmin, Marian Tudor, Teodorof Liliana, Antoaneta Ene, Christina

- Chatzichristou, “Danube River influence on the North-Western Shelf of the Black Sea”, International Conference” Environmental Challenges in the Black Sea Basin: Impact on Human Health” Galati, Romania, September 23-26, 2020.
9. Spanos T., Mitas A., Ene A., Chatzichristou C., Dermentzis K., Bogdevich O., "Evaluation of Groundwater Quality through Environmetrics. The case of Kavala Region", Monitox International Symposium "Deltas and Wetlands", Tulcea, Romania, September 15th-17th, 2019.
  10. Chatzichristou C., kalavrouziotis I., Spanos T., " Reuse of Treated Municipal Wastewaters Effluents for Irrigation in Protected Areas: The Case of Nestos Delta Region", Monitox International Symposium "Deltas and Wetlands", Tulcea, Romania, September 15th-17th, 2019.
  11. Vilson T., Spanos T., Chatzichristou C., " Quantitative and Semi-quantitative Analysis using Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)", Monitox International Symposium "Deltas and Wetlands", Tulcea, Romania, September 15th-17th, 2019.
  12. Aikaterini N. Zarkada, Valasia Iakovoglou, Christina Xatzixristou, George N. Zaimis, Thomas Spanos," The performance of a pilot constructed wetland in nutrients removal from domestic wastewater” WASTEnet 19-21 June (2015), Kavala, Greece.
  13. Papadopoulos A., Spanos T., Chatzichristou C., “Assessing the microbial availability of phenanthrene, pyrene and B[a]P in contaminated soils using the HPCD extraction technique”, 1st International Symposium on Applied Physics-Materials Science, Environmental and Health (ISAP1) Galati, November 28-29, (2009).
  14. Spanos T., Papadopoulos A., Chatzichristou C., Karakosta K., " Water Quality Evaluation by Chemometrical Approaches", 1st International Symposium on Applied Physics-Materials Science, Environmental and Health (ISAP1) Galati, November 28-29, (2009).
  15. Thomas Spanos, Apostolos Papadopoulos, Christina Chatzixristou, Kokkoni Karakosta, “Water Quality Evaluation by Chemometrical Approaches”. p. 16-21, (2009) ISSN 2066-7124.

## **EDUCATIONAL SKILLS**

- Basic knowledge of qualitative, quantitative, and mixed methods / evaluation methods common to education

- Certification of PC (ECDL Progress Certificate, Windows, Internet, Word, Excel, PowerPoint)
- Certification of English
- Certification in the Adult Learning and teaching Theory

#### **PARTICIPATION IN SCIENTIFIC COMMITTEES**

- Member in the Association of Greek Chemists