

Curriculum Vitae

Christophoridis E. Christophoros



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Date of birth : February 27th, 1980

EDUCATION AND TRAINING

1994-1997 : 6th Lyceum Kalamaria – Thessaloniki
(Graduation Degree 19.8)
1997-2001 : **Degree in Chemistry**, Faculty of Physical, Analytical and Environmental Chemistry, Aristotle University of Thessaloniki, Greece.
(Grade: 8.30/10.00)
2000-2001 : **Undergraduate Dissertation** at the Environmental Pollution Laboratory. Subject: “Nitrate, Arsenic and chloride pollution of drinking water in Northern Greece. Elaboration by applying GIS.”, Supervisor: Prof. Fytianos Konstantinos (Grade: 10.00/10.00)
2002-2004 : **MSc in Environmental Chemistry**, Faculty of Environmental Chemistry, Chemistry Department, School of Natural Sciences, Aristotle University of Thessaloniki, Greece. (Grade 9.84/10.00)
Dissertation title: “Study of the conditions affecting the release of phosphorus from surface sediments of lakes Koronia and Volvi”. Supervisor: Fytianos Konstantinos (Grade 10.00/10.00)
2005-2011 : **PhD in Environmental Chemistry**, Faculty of Environmental Chemistry, Chemistry Department, School of Natural Sciences, Aristotle University of Thessaloniki, Greece. Titled: “Groundwater remediation using Permeable Reactive Barriers”.
2011-2012 : Army duty

DISTINCTIONS / AWARDS:

1997-1998 : **Annual scholarship** of the National Institute of Scholarships for excellence in the 1st year of Undergraduate studies. (3rd in class this year)
1998-1999 : **Annual scholarship** of the National Institute of Scholarships for excellence in the 2nd year of Undergraduate studies. (2nd in class this year)
1999-2000 : **Annual scholarship** of the National Institute of Scholarships for excellence in the 3rd year of Undergraduate studies. (2nd in class this year)
2001-2002 : “Nikolaos Alexandrou” **Award of the Department of Chemistry**, School of Natural Sciences, Aristotle University of Thessaloniki, for admission in the Postgraduate program of studies, as the Department’s graduate with the highest performance in the degree’s marking.
2001-2002 : Scholarship of the National Institute of Scholarships for **excellence in the 1st year of Postgraduate studies**. (1st in class this year).
2002-2003 : Success in the national examination of the National Institute of Scholarships for the **MSc annual scholarship** at the topic of Environmental Chemistry.
2005-2009 : **Scholarship from Onassis Foundation** for PhD Dissertation
2007 : **Scholarship from the Research Committee** of Aristotle University of Thessaloniki for the Research Activity of the years 2006-2007
2007 : **Ecological Sensitivity Award “Ecopolis”** for the study: Applications of various reactive material in groundwater remediation.
27/6/2009 – 7/7/2009 **Selection to attend the 59th Nobel Laureates Meeting, Lindau Germany and further participation in the group of the 20 best students to attend the post-conference tour to the research centers of South Germany (7 Greek students worldwide).**
21/9/2011 Working in Environmental research group “Envilab” which was awarded by the **Research Committee of the Aristotle University of Thessaloniki as being one of the top 5 analytical groups in an International Interlaboratory Study** (Schema 22 01) for the determination of inorganic pollutants in groundwater.

- 7-2012 Selected to be interviewed by the JRC European Commission Centre in Geel Belgium for the position of Post-Doc Researcher in the field “Development of Environmental Certified Materials”
- 9-2012 Honorable scholarship by the Research Committee of the Aristotle University of Thessaloniki for a 10-month post-doc program (1.1.2012- 1.10.2012) titled: **“Evaluation of oxidizing and reductive methods for the decomposition and transformation of selected pharmaceuticals in environmental samples. Determination of precursors and by-products by liquid chromatography coupled with tandem mass spectrometry. Assessment of acute and chronic toxicity of environmental samples.”**

WORK EXPERIENCE - PARTICIPATION IN RESEARCH

- 2002-2008 :Monitoring of the groundwater pollution in the municipality of Thermi. (Research Committee of Aristotle University of Thessaloniki, Task Number 20872). Integration of results in GIS systems.
- 2003-2005 :Monitoring of the groundwater pollution of the municipality of Madytos. (Research Committee of Aristotle University of Thessaloniki, Task Number 21234). Integration of results in GIS systems.
- 2002-2008 : Monitoring of the groundwater pollution of the municipality of Mikra. (Research Committee of Aristotle University of Thessaloniki, Task Number 21234).
- 2003-2006 :Study of the photochemical behavior of selected pesticides in aqueous systems. Research project Pythagoras
- 2006-2007 :Assessment of ecological status of Thermaikos Gulf, N. Greece. Elaboration by GIS
- 2005-2007 :Heavy metal accumulation in cover plants of the area of Thessaloniki, N. Greece.
- 2007-2008 :Geochemical study of the river Bogdanas in the area of Assiros-Lagada District, N. Greece.
- 2007-2008 :Quality assessment of Thermaikos Gulf ecosystem. Ministry of Macedonia-Thrace – Research Committee, Aristotle University of Thessaloniki.
- 7-11/12/2009 : **Greek/German Research Collaboration IKYDA 2008** – Study of the presence and degradation of pharmaceutical products in environmental samples. Environmental Pollution Laboratory, Aachen Germany.
- 2009-2011 :Analytical method development for the simultaneous determination of 400 pesticides in environmental samples using UPLC-MS/MS.
- 2010 :Comparative study and improvement of extraction methods for the determination of hexavalent chromium in groundwater samples. Effect of physicochemical parameters in the limits of detection and quantification.
- 2010 :Method development for the determination of Trihalomethanes (THM) using GC-MS in drinking water samples of N. Greece.
- 2009-2010 : Pesticide determination in fruit and vegetables using QUECHERS method and analysis using UPLC-MS/MS.
- 24-29/10/2010 :**Greek/German Research Collaboration IKYDA 2008**– Study of the presence and degradation of pharmaceutical products in environmental samples. Environmental Pollution Laboratory, Aachen Germany.
- 1.11.2012-31.5.2013:
Post-Doc (DAAD scholarship) in Technical University of Munich, Water Remediation Institute, Garching. Prof Dr. Thomas Letzel titled : ”Remediation pathway of selected pharmaceutical compounds using Reductive/Oxidative methods”
- 1.6.2013-31.11.2013:
Post-Doc (ARISTEIA Research Program 624 TREMEPOL PROJECT) in University of Athens, Chemistry Department. Prof Dr. Thomaidis Nikolaos specializing in : ”Ozonation of selected emerging pollutants and byproducts identification using LC-MS/MS and qTOF MS.”
- 15.2.2014-15-11-2015:
Post-Doc (ARISTEIA Research Program) in **Demokritos National Center for Scientific Research**, Institute of Nanoscience and nanotechnology specializing in: “CYANOWATER- Cyanotoxins in Fresh Waters, Advances in Analysis, Occurrence and Treatment” - (a) Development of advanced analytical methods for emerging cyanotoxins (CTs) and for simultaneous analysis of different groups of CTs, (b) Identification of the toxin-producing cyanobacteria species in freshwater bodies and (c) Development of novel advanced oxidation processes for the detoxification of water contaminated with CTs.
- 8.1.2016 – 31.3.2016:
“Short Term Scientific Mission” (CYANOCOST Action ES1105 - COST-STSM-ECOST-STSM-ES1105-110116-067946) titled “Degradation of cyanotoxins using Advanced Oxidation Processes

(AOPs), including ozonation and UV/H₂O₂. Structure elucidation of transformation products using GC-MS/MS” University of Barcelona, Laboratory of Advanced Oxidation Processes, Prof. Dr Esplugas in collaboration with National Research Foundation, Institute of Analytical Sciences IDAEA, Prof. J. Caixach, Dr C. Flores)

31.3.2016- 31.3.2017

Post-Doc Researcher (Research Programs for Excellence GSRT/IKY/SIEMENS - Establishing a Multidisciplinary and Effective Innovation and Entrepreneurship Hub) in the NCSR “Demokritos”, Institute of Nanoscience and Nanotechnology (INN) specializing in: “Research on novel materials and advanced oxidation processes” and “Development of analytical LC-MS/MS methods for the determination of cyanobacterial toxins in environmental samples”.

9/2016-9/2018

Participation in the research project SUBSOL (bringing coastal SUBsurface water SOLutions to the market) in the frame of Horizon 2020 – the Framework Programme for Research and Innovation (2014-2020) for the design and development of demonstration-scale devices, for the remediation of groundwater using photocatalysis and reverse osmosis.

2017-2020:

Post-Doc Researcher in NCSR Demokritos in the frame of the Industrial Scholarship Program Stavros Niarchos titled: “From source to tap: risk assessment of organic pollutants in the drinking water cycle of Athens”

2017-2019:

Special Grant and Support Program for Scholars’ Association Members” (Grant No. R ZN 005-1/2017-2019) from **A. Onassis Foundation** for the development of a pilot scale photocatalytic reactor.

2017-2020:

HORIZON 2020 **FAIRWAY** “Farm systems that produce good Water quality for drinking water supplies” Call H2020-RUR-2016-2, Funding Scheme Horizon 2020 RIA, Activity RUR-04-2016.

2020-2021:

Post-Doc Researcher in NCSR Demokritos INN in the context of the OP. "Human Resources Development, Education and Lifelong Learning" in Priority Axis 6, with Code EDBM103 and title "Support for researchers with emphasis on young researchers-cycle B ". The subject of the research is "Study of the accumulation of anti-cancer compounds in intervertebral disc tissues and their effect on cellular aging" (MIS 5047829) E-12384.

2020-present: Doping Control Laboratory (DCLA), Institute of Biosciences and Applications (IBE), NCSR Demokritos: "Analysis of biological samples of athletes for the detection of hormones and prohibited doping substances, by chromatography (liquid or gaseous) coupled with **HIGH RES (ORBITRAP) mass spectrometry**. Research on the development and validation of methods for the detection of prohibited doping substances in samples of athletes. Validation of methods for the detection of prohibited doping control"

PERSONAL SKILLS AND COMPETENCES

English : Certificate of Proficiency in English, Cambridge University.
: Certificate of Proficiency in English, Michigan University.

German : Zertifikat Deutch of the Goethe Institut.
Mittelstufe – Goethe Institut

Self-assessment	Understanding		Speaking		Writing
	Listening	Reading	Spoken Interaction	Spoken Production	
European Level					
English	C2	C2	C2	C2	C2
German	C1	C1	C1	C1	C1

Computer Skills and Competences:

- Computer Studies: First Certificate in Computing, Oxford University.
- Windows 98, 2000, XP
- Word, Excel, Access, Powerpoint, Frontpage
- Basic knowledge of PC networks
- Statistical Programs: Origin, Sigmaplot, Anova.
- Knowledge and use of Geographical Information Programs (GIS), ArcView 3.2, ArcGIS 8, MapInfo 5.0. **Extensive use of GIS systems during undergraduate dissertation and other studies.**
- 30 hour Seminars of Marathon Data Systems on the use of ArcGIS (Center of Information Technologies – Aristotle University of Thessaloniki
- 13-14/11/2003 13th Annual Meeting of Greek GIS Users, Thessaloniki
- Start of **Master's degree in GIS** – Systems, Lund University, Sweden. Distance learning course
- Basic knowledge of Visual Basic 5
- Seminars on Frontpage 2000, on creating websites.
- Flash and web-developing (e107, Frontpage).

SCIENTIFIC INTERESTS

- Development and application of analytical methods for the determination and speciation of heavy metals and inorganic substances in various matrices (surface, sea and groundwater, soil and sediments) using Atomic Absorption Spectrometry (Flame-AAS, Graphite Furnace AAS, FIAS-AAS)
- Development and application of analytical methods for the determination of organic compounds (pesticides, pharmaceuticals, organic solvents, cyanotoxins) in various matrices (surface- and groundwater, fruit and vegetables, fish and biomass) using SPE/SPME combined with GC-MS or LC-MS/MS, LC-QTOF and GC-MS/MS instrumentation
- Application of Experimental Design Methodologies for the development and optimization of analytical methods, using multi-factorial approaches
- Development and application of AOPs for the remediation and transformation of organic pollutants
- Identification and structure elucidation of remediation transformation products and toxicity profiles
- Analytical techniques for the determination of transformation products using LC-MS/MS and GC-MS
- Application of Geographical Information Systems for the monitoring, management and visualization of pollution in selected geographical areas and the selection of appropriate management techniques.
- Ecotoxicological assessment of environmental samples.
- Groundwater remediation from heavy metals, inorganics and organic compounds with various passive and reactive materials and mixtures (reduction, precipitation, sorption)
- Incorporation and immobilization of selected substances in polymer materials
- Combination of reductive and oxidative processes for the remediation of natural water
- Simulation of groundwater remediation with Permeable Reactive Barriers.
- Development and characterization of new materials for photocatalytic applications in water remediation
- Development of novel analytical methods for the determination of cyanobacterial toxins in complex environmental samples (water, aquatic organisms)

FURTHER EDUCATION / SEMINARS

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| 20-23/11/2000 | : 11th Seminar on the protection of the Environment: “Environment and Health”, German “Goethe” Institute of Thessaloniki, Greece |
| 1-4/3/2002 | : 1st Environmental Conference of Macedonia. Thessaloniki, Greece. |
| 2-5/12/2002 | : 12th Seminar on the Protection of the natural environment: “Chemistry and management of aquatic ecosystems”. German Institute Goethe, Thessaloniki. |
| 13-14/2/2003 | :Two days’ meeting at the technological Park of Thessaloniki on the “Reclamation and reuse of wastewater LIFE99/ENV/GR/000590” |
| 9-20 / 2 / 2004 | : Seminar: “Advanced methods (photocatalytic, photoelectric and electrochemical) for reclamation of wastewater and air pollutants” organized by the Aristotle University of Thessaloniki, Department of Chemistry. Total duration 40 hours theoretical + 40 hours of practice. |

- 7-10/10/2004 :3rd European Conference on pesticides and related organic micropollutans in the environment. Chalkidiki.
- 4-7/7/2005 :3rd European Bioremediation Conference, Chania, Greece
- 1-3/9/2005 :9th International Conference on Environmental Science and Technology, Rhodes, Greece.
- 3-4/11/2006 :Two day meeting: Biofuels and their participation in agricultural and industrial development. Thessaloniki, Technical Chamber of Greece.
- 23-26/11/2006 :2nd International Conference Water Science and Technology, AQUA 2006
- 24-28/2/2007 :2nd International School and Workshop on INSIDE-POReS (In-Situ Study and Development of processes Involving PORous Solids)
- 14-16/7/2008 :5th Int. Conference: Nanosciences and nanotechnologies – NN08, Thessaloniki, Greece.
- 16-19/10/2008 :3rd International Conference AQUA 08, Helexpo Palace, Athens
- 19-23/10/2009 :Training course on UPLC- MS/MS systems – Waters Company – Vienna
- 1/10/2010 :European Apprenticeship Training for Chemical Laboratory Assistants, **Leonardo da Vinci Partnership**, Aristotle University of Thessaloniki, Greece.
- 11/2011 :Freising, Munich, Kick off Meeting: European Apprenticeship Training for Chemical Laboratory Assistants, **Leonardo da Vinci Partnership**, CHEMLAB II
- 4/2011 :Poznan, Poland, Certification Meeting: European Apprenticeship Training for Chemical Laboratory Assistants, **Leonardo da Vinci Partnership**, CHEMLAB II
- 2/2012 :Istanbul, Turkey, Intermediate Meeting: European Apprenticeship Training for Chemical Laboratory Assistants, **Leonardo da Vinci Partnership**, CHEMLAB II
- 4/2013 Wasser 2013 Messe – Berlin
- 5-8/9/2013 :13th international Conference on Environmental Science and Technology, CEST 2013, Athens.
- 18-21/2/2015 Combined Working Group - Management Committee Meetings of CYANOCOST

PRESENTATIONS and PUBLICATIONS in CONFERENCES

- 1-5/7/2002 :Christophoridis, C., Fytianos K. “*Nitrate, Arsenic and chloride pollution of drinking water in Northern Greece. Elaboration by applying GIS.*” 6th International Conference for the protection and restoration of the environment, Skiathos Island, Greece.
- 4-7/7/2005 :Christophoridis, C., Bizani, E., Fytianos K. “*Bioremediation as a method of degrading pesticides in soil and groundwater: a review*” 3rd European Bioremediation Conference. Chania, Creta, Poster presentation.
- 1-3/9/2005 :Christophoridis, C., Fytianos K., “*Study of the conditions affecting the release of phosphorus from the top sediments of two lakes of Northern Greece*”, 9th International Conference on Environmental Science and Technology – Rhodes 2005. Oral presentation.
- 23-25/5/2006 :Christophoridis, C., Fytianos K. “*Phosphorus and nitrogen release from lake sediments*”. 3rd International Symposium on Contaminated Sediments, Shizuoka Japan. Poster Presentation
- 7-9/9/2006 :Evgenidou E., Bizani E., Christophoridis C., Fytianos K. “*Heterogenous photocatalytic degradation of prometryn in aqueous solutions under UV/Vis irradiation*”. 1st European Conference on Environmental Applications of advanced oxidation processes. Chania, Greece. Poster presentation.
- 5-7/9/2007 :Christophoridis C., Fytianos K. “*Comparable evaluation of alternative substrates for permeable reactive barriers*”. 10th International Conference on Environmental Science and Technology, Island of Kos, Oral Presentation.
- 5-7/9/2007 :Christophoridis C., Evgenidou E., Bizani E., Fytianos K “*Heterogenous photocatalytic treatment of a carbamate, an organophosphorous and a triazine pesticide in aqueous solutions*”. 10th International Conference on Environmental Science and Technology, Kos, Greece
- 14-17/3/2008 :Christophoridis C., Evgenidou E., Bizani E., Fytianos K “*Quality assessment of groundwater in the municipality of Thermi, N. Greece.*” 3rd Environmental Conference of Macedonia,
- 14-17/3/2008 :Giouri A., Christophoridis C “*Geochemical study of the river Bogdanas, Lagadas District, Assiros-Thessaloniki*” 3rd Environmental Conference of Macedonia
- 29/6-3/7/2008 :Dedepsidis D., Christophoridis C., Fytianos K. «*Heavy metal pollution in the surface sediments of Thermaikos Gulf, N. Greece. Elaboration by GIS.*” 9th Conference on the Protection and Restoration of the Environment, Kefalonia. (poster presentation)
- 16-19/10/2008 :Christophoridis C., Zouboulis A., Fytianos K. “*Cd removal from polluted groundwater using modified Bulgarian zeolite.*” 3rd International Conference AQUA 08, Helexpo Palace, Athens. (poster)

- 11-13/3/2009 :Christophoridis C., Evgenidou E., Bizani E., Fytianos K. **“Groundwater quality evaluation in the Municipality of Thermi (Thessaloniki Prefecture). Assessment of the results by the use of GIS.”** International Journal XENOWAC, Xenobiotics in the Urban Environment. (Poster presentation)
- 2-5/9/2009 :Christophoridis C., Zouboulis A., Fytianos K. **“Parameters affecting the removal of Cr(VI) from water using zero-valent iron.”** 11th International Conference on Environmental Science and Technology, Chania Crete (Oral Presentation.)
- 23-26/9/2010 :Giouri A., Christophoridis C. **“Assessment of heavy metals concentrations in sediments of Bogdanas River at the Assiros-Lagadas area, Northern Greece”** XIX Congress of the Carpathian Balkan Geological Association, Thessaloniki Greece.
- 18-20/3/2011 :Bourliva A., Christophoridis C. , **“Determination of mineralogy, morphology and heavy metal content of urban road dust in the historic centre of the city of Thessaloniki”** 4th Environmental Conference of Macedonia, Helexpo,Thessaloniki.
- 18-20/3/2011 :Gougoutsia C., Christophoridis C., Fytianos K, **“Pollution monitoring of groundwater in the Prefecture of Kilkis (N. Greece) using Ion Chromatography”.** (poster) 4th Environmental Conference of Macedonia, Helexpo,Thessaloniki.
- 8-10/9/2011 :12th International Conference on Environmental Science and Technology (CEST2011) Rhodes Greece.
 a) Bourliva, A., Kantiranis, N., Papadopoulou, L., Aidona, E., Christophoridis, C., Kollias, P. **“ON THE MORPHOLOGY, GEOCHEMICAL CHARACTERISTICS AND MAGNETIC PROPERTIES OF URBAN ROAD DUST PARTICLES FROM THE HISTORIC CENTER OF THE CITY OF THESSALONIKI, GREECE”**.
 b) Christia, C., Bizani, E., Christophoridis, C., Fytianos, K. **“DETERMINATION OF PESTICIDE RESIDUES IN FRUIT SAMPLES ORIGINATED FROM GREECE. STUDY AND OPTIMIZATION OF QUECHERS METHOD USING LC- MS/MS ANALYSIS”**
 c) Mitsika, E., Christophoridis, C., Fytianos, K. **“OPTIMIZATION OF THE FENTON DEGRADATION OF ACETAMIPRID IN AQUEOUS SOLUTIONS USING RESPONSE SURFACE METHODOLOGY”**
- 11-15/9/2011 : International Conference on Chemistry and the Environment (ICCE 2011) Zurich.
 a) Mitsika E., Christophoridis C., Fytianos, K.. **“Degradation of Pesticide Acetamiprid by Fenton Process and Determination of the Intermediate Formed By-products”**
 b) Kalogridi, C., Drimaropoulou, G., Christophoridis, C., Bizani, E., Fytianos K. **“Development and Application of Analytical Method for Simultaneous Extraction and Determination of Multiclass Pesticides in Lake Waters and Sediments of Northern Greece”**
 c) Drimaropoulou, G., Kalogridi, C., Christophoridis, C., Bizani, E., Fytianos, K. **“Experimental Design Approach for Optimization of Solid Phase Extraction and Development of a Liquid Chromatography-Electrospray-Tandem Mass Spectrometry Method (LC-MS/MS) for the Determination of Multiclass Pesticides in Water Samples”**
- 15-21/7/2012 : Bourliva A., Christophoridis C., **“Heavy metal contamination in urban road dusts in the city of Thessaloniki, Greece: mineralogical and morphological characteristics and mobility of potentially toxic metals”** 9th International Symposium on Environmental Geochemistry Aveiro,
- 4-8/7/2012 :Bourliva A., Kantiranis N., Papadopoulou L., Christophoridis C., and Kollias P **“HEAVY METALS IN ROAD DUSTS FROM THE CENTER OF THE CITY OF THESSALONIKI, GREECE: A MINERALOGICAL AND CHEMICAL ASSESSMENT”** 11th International Conference on Protection and Restoration of the Environment, Thessaloniki, Greece
- 25-28/6/2013 :Christophoridis C., Letzel, T., Mitsika, E., Fytianos, K. **“Education in Environmental Analysis – Leonardo da Vinci CHEMLAB II project.”** 14th EuCheMS International Conference on Chemistry and the Environment, ICCE 2013, Barcelona
- 25-28/6/2013 :Christophoridis C., Letzel, T., **“Simulation of the redox metabolism of antidepressant active compounds (emerging pollutants) by electrochemistry/mass spectrometry.”** 14th EuCheMS International Conference on Chemistry and the Environment, ICCE 2013, Barcelona
- 29/9-2/10/2013 :Christophoridis C., Letzel, T., **“Redox transformations of selected pharmaceutical pollutants. Integration in RISK-IDENT.”** 6th Late summer workshop “Micropollutants in the water cycle”, Schloss Maurach, Lake Constance
- 5/5/2014 :Christophoridis C., **“Preparation and characterization of novel TiO₂-POM photocatalysts for water purification”**, Workshop on Cyanotoxins in Fresh Waters – Advances in Analysis, Occurrence and Treatment, NCSR Demokritos, Athens
- 26-28/5/2014 :Christophoridis C., Letzel T., **“Redox conversion of antidepressants in environmental matrices. Effect of electrode material”**, Gesellschaft Deutscher Chemiker, Haltern am See, Deutschland

- 12-15/7/2014 :C. Christophoridis, T. Fotiou, T. Triantis, T. Kaloudis, A. Hiskia., **“Preparation, characterization and photocatalytic activity of TiO₂ impregnated with polyoxometalate H₃PW₁₂O₄₀”**, Frontiers in Metal Oxide Cluster Science 2014, Muffliers, Paris, France Oral Presentation
- :C. Christophoridis, M. Kontaxaki, T. Fotiou, T. Triantis, T. Kaloudis, A. Hiskia., **“Photocatalytic degradation of cyanotoxin Cylindrospermopsin (CYN) using polyoxometalate H₃PW₁₂O₄₀, TiO₂ and impregnated TiO₂-POM”**, Frontiers in Metal Oxide Cluster Science 2014, Muffliers, Paris, France Poster Presentation
- 31/8 – 4/9/2014 :C. Christophoridis, A. Droungou, S-K. Zervou, T. Triantis, T. Kaloudis, A. Hiskia., **“SIMULTANEOUS DETERMINATION OF CYANOTOXINS CYLINDROSPERMOPSIN AND ANATOXIN-A IN WATER USING LC-MS/MS. OPTIMIZATION OF EXTRACTION WITH EXPERIMENTAL DESIGN”**, 5th EUChemS Chemistry Congress, Istanbul, Turkey, Oral Presentation
- :C. Christophoridis, N. Thomaidis., **“OZONATION OF RANITIDINE UNDER VARIOUS PHYSICOCHEMICAL CONDITIONS. DEGRADATION KINETICS AND INTERMEDIATE BY-PRODUCTS”**, 5th EUChemS Chemistry Congress, Istanbul, Turkey, Oral Presentation
- 18-21/9/2014 :S.-K. Zervou, C. Christophoridis, T. Kaloudis, T. Triantis, A. Hiskia., **“DEVELOPMENT AND OPTIMIZATION OF AN SPE, LC-MS/MS METHOD FOR THE SIMULTANEOUS DETERMINATION OF 24 PESTICIDES IN WATER USING EXPERIMENTAL DESIGN”**, 8th European Conference on Pesticides and Related Organic Micropollutants in the Environment, Ioannina, Greece, Oral presentation
- :A. Hiskia, T. Triantis, T. Kaloudis, C. Christophoridis, T. Fotiou, S.-K. Zervou., **“CYANOWATER - CYANOTOXINS IN FRESH WATERS, ADVANCES IN ANALYSIS, OCCURRENCE AND TREATMENT”**, 8th European Conference on Pesticides and Related Organic Micropollutants in the Environment, Ioannina, Greece Poster presentation
- 29/9 – 3/10/2014 :I. Tsilikidis, C. Christophoridis, M-C. Nika, N. S. Thomaidis., **“OZONATION OF FUROSEMIDE UNDER VARIOUS PHYSICOCHEMICAL CONDITIONS. ELUCIDATION OF TRANSFORMATION PATHWAY USING LC-QTOF-MS”**, 9th Aegean Analytical Chemistry Days (AACD2014), Chios Island, Greece poster presentation
- 18-19/11/2014: C. Christophoridis, S-K. Zervou, T. Fotiou, T. Triantis, T. Kaloudis, A. Hiskia, **“Analysis of cyanotoxins and their transformation products using mass spectrometry”**, Symposium on Mass Spectrometry and Health, Athens, Greece.
- 23-26/3/2015: S. Veloutsou, C. Christophoridis, E. Mitsika, N. Raikos, K. Fytianos and T. Letzel, **“AMPHETAMINES AND AMPHETAMINE-LIKE DRUG ANALYSIS IN WASTE WATER USING RP-UPLC- MS/MS & COMPARISON WITH A HILIC-RP-HPLC-MS COUPLING SEPARATION”**, ANAKON 2015, Graz, Austria.
- 28/6/2015-2/7/2015: S.-K. Zervou, C. Christophoridis, T. Kaloudis, T. Triantis, A. Hiskia **“DEVELOPMENT OF MULTI-TOXIN METHOD FOR UNAMBIGUOUS DETERMINATION OF 17 CYANOTOXINS USING LC-ESI-MS/MS”**, MEDMS-III, 3rd Mediterranean Sea Region Countries Mass Spectrometry (MEDMS III) Workshop, Athens, Greece.
- 3-5/9/2015: S.-K. Zervou, C. Christophoridis, T. Kaloudis, T. Triantis, A. Hiskia **“Development and validation of an SPE-LC-MS/MS method for the simultaneous determination of multiclass cyanotoxins in water”**. 14th International Conference on Environmental Science and Technology, CEST 2015, Rhodes, Greece.
- 20-24/9/2015: K. Manolidi, C. Christophoridis, S-K. Zervou, T. Kaloudis, T.Triantis, A. Hiskia. **“Simultaneous determination of BMAA, 2,4-DAB, Saxitoxin and neoSaxitoxin in water, using SPE HILIC-LC-MS/MS”**, 15th EuChemS International Conference on Chemistry and the Environment, Leipzig, Germany
- 1-3/12/2015: G. Papapanagiotou, S-K. Zervou, C. Christophoridis, T. Kaloudis, A. Hiskia, S. Gkelis. **“Characterization of commercially cultivated arthrospira (‘Spirulina’) strains: A polyphasic**

- approach**". 2nd EABA and EC Algae contractors' conference and the 9th International algae conference, Lisbon, Portugal
- 17-22/4/2015: M. Perdikaki, A. Kallioras, C. Christophoridis D. Iossifidis A. Zafeiropoulos, K. Dimitriadis, C. Makropoulos, K. Raat, G. Berg. "**Integrated subsurface water solutions for coastal environments through integrated pump&treat and aquifer storage and recovery (ASR) schemes**", European Geosciences Union General Assembly 2016, Vienna, Austria.
- 3-8/7/2016: E. Evgenakis, C. Christophoridis, K. Fytianos. "**Optimization of an analytical method for the determination of heavy metals in milk powder**". 13th International Conference on Protection and Restoration of the Environment, PREXIII, Mykonos, Greece.
- 29/9-2/10/2016: A. Chatzimpaloglou, C. Christophoridis, K. Fytianos, "**Development of an SPE-UPLC-MS/MS method for the determination of 13 cytostatics in water**", 10th Aegean Analytical Chemistry days, Canakkale, Turkey
- 20-23/10/2016: M. Moustaka-Gouni, A. Hiskia, M. Katsiapi, E. Vardaka, T. Kaloudis, T. Triantis, S.-K. Zervou, C. Christophoridis, K. Manolidi, "**A cocktail of cyanotoxins in Greek lakes: The WFD 2000/60/EU objective for a good ecological status has not been achieved**", 8th Congress of the Hellenic Ecological Society (HELECOS), Thessaloniki, Greece, October 20-23, 2016, pg. 229
- 23-8/10/2016: M. Panou, S.-K. Zervou, C. Christophoridis, K. Manolidi, T.M. Triantis, T. Kaloudis, A. Hiskia, S. Gkelis, "**First report of a microcystin-producing *Cylindrospermopsis raciborkii* strain isolated from Greece**", 10th International Conference on Toxic Cyanobacteria (ICTC10), Wuhan, China, October 23-28, 2016, pg. 57.
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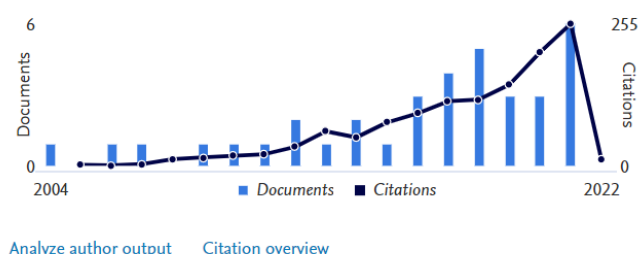
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PUBLICATIONS / BOOKS:

1. D. Lambropoulou, E. Evgenidou, C. Christophoridis, E. Bizani and K. Fytianos. **Flame Retardants. Chapter 17. Analysis of Endocrine Disrupting Compounds in Food**, L.M.L. Nollet (Ed.), Wiley-Black 2011 <https://doi.org/10.1002/9781118346747.ch17>
2. C. Christophoridis, E. Bizani and K. Fytianos. **Agricultural and Environmental Informatics, Governance, and Management: Emerging Research Applications**. Environmental quality monitoring, using GIS as a tool of visualization, management and decision-making. Applications emerging from the EU Water Framework Directive EU 2000/60. IGI Global, 2011, Chapter 21, 397-424, DOI: 10.4018/978-1-60960-621-3
3. C. Christophoridis, I. Pasiyas, E. Mitsika, S. Veloutsou, K Fytianos. **Heavy metals in water: Presence, removal and safety**. CHAPTER 13 Fluorides in Different Types of Aquatic Systems and their Correlation with Metals and Metalloids. Royal Society of Chemistry. 2014. DOI:10.1039/9781782620174-00261
4. Geshan Zhang, Xuexiang He, Xiaodi Duan, Ying Huang, Changseok Han, Kevin O' Shea, Duk Kyung Kim, Virender K. Sharma, Natalie Johnson, Bangxing Ren, Vasileia Vogiazzi, Theodora Fotiou , Christophoros Christophoridis, Anastasia Hiskia, and Dionysios D. Dionysiou. **Chapter 7 Title: Advanced Oxidation Processes, in Water Treatment for Purification from Cyanobacteria and Cyanotoxins**, Edited by A. Hiskia, D. Dionysiou, M. G. Antoniou, T. Kaloudis, T. Triantis, Wiley 2020, <https://doi.org/10.1002/9781118928677.ch7>
5. Margarida Ribau Teixeira, Maria João Rosa, Sabrina Sorlini, Michela Biasibetti Christophoros Christophoridis, Anastasia Hiskia and Christine Edwards. **Chapter 3. Removal of cyanobacteria and cyanotoxins by conventional physical-chemical treatment in Water Treatment for Purification from Cyanobacteria and Cyanotoxins**, Edited by A. Hiskia, D. Dionysiou, M. G. Antoniou, T. Kaloudis, T. Triantis, Wiley 2020, <https://doi.org/10.1002/9781118928677.ch3>
6. S.C. Pillai, N.B.McGuinness, C. Byrne, C. Han, J. Lalley, M. Nadagouda, P. Falaras, A.G. Kontos, M.A Gracia-Pinella, K. O'Shea, R.V. Mangalaraja, C. Christophoridis, T. Triantis, A. Hiskia, D.D. Dionysiou. **Chapter 8. Photocatalysis as an effective advanced oxidation process** in Advanced Oxidation processes for water treatment Fundamentals and applications, Ed. M.I. Stefan, IWA Publishing, 2017, https://doi.org/10.2166/9781780407197_0333

REVIEWER in journals

- ✓ *Journal of Hazardous Materials*
- ✓ *Central European Journal Of Chemistry*
- ✓ *Desalination and Water Treatment*
- ✓ *Journal of Environmental Chemistry and Ecotoxicology*
- ✓ *Journal of Environmental Research*
- ✓ *Science of the Total Environment*
- ✓ *Chemical Engineering Journal*
- ✓ *Chemosphere*
- ✓ *Environmental Science and Pollution Research*
- ✓ *Research on Chemical Intermediates*
- ✓ *Continental Shelf Research*

2011 – 2016 Editor in *Central European Journal of Chemistry / Open Chemistry Journal*

PROJECT organization / co-organization

- 2010 Manager, coordinator and trainer of the greek part of Leonardo da Vinci Project “**CHEMLAB II**” (2011-2013) “TRAINING OF CHEMICAL LABORATORY ASSISTANTS specialty: Environmental Chemistry”. Development and application of suitable curriculum and training courses to train qualified members in Environmental Chemical Analysis. Courses on GC-MS, LC-MS/MS and Atomic Absorption Spectrometry, as well as laboratory exercises.
- 2017– 2020 Co-supervision with Prof Fytianos of the Greek partner Aristotle University of Thessaloniki (AUTH), in the research project **FAIRWAY** “Farm systems that produce good Water quality for drinking water supplies” Call H2020-RUR-2016-2, Funding Scheme Horizon 2020 RIA, Activity RUR-04-2016.

PROJECT proposals submitted

- 2019 Industry-Academia Partnership EYDE-ETAK: NCSR “Demokritos” - National Research Center – Greener than Green SA T2EAK-01686 «Photocatalytical reactor with immobilized micro/nano structured TiO₂ surfaces for water and wastewater remediation» budget 350.000 €
- 2019 ELIDEK Post-Doc: CYANOSONIC Degradation of organic pollutants using sonolysis, budget 400.000 €
- 2018 EDBM B’ Cycle «Young scientists support – Study of anticancer drug accumulation in intervertebral discs and their effect in cell ageing»
- 2017 Industrial Postdoc Researcher project – Stavros Niarchos Foundation/ NCSR Demokritos. Title: “From source to tap: risk assessment of organic pollutants in the drinking water cycle of Athens” Budget 27.000€
- 2017 PostDoc Researcher Scholarship Program – Onassis Foundation/NCSR “Demokritos”, Title: “Design and Development of a semi-pilot photocatalytic reactor for the remediation of wastewater originating from small communities”, Budget 20.000€
- 2017 Post-Doc funding program ELIDEK (GSRT / NCSR “Demokritos”) titled: Toxic and Bioactive cyanobacteria metabolites: Reactive Oxygen Species (ROS)-driven transformation processes. CYANOROS. Budget 200.000€
- 2017 Support of research groups with young researchers (GSRT), titled: “New-found toxins in the environment: BMAA from water cyanobacteria to the food chain”. Budget 12.500€
- 2016 NSRF 2014-2020 project in the frame of “Support of very small and small companies for the development of their capabilities in new markets”, titled: “Evaluation of various photocatalytic building materials for the remediation of air-pollutants”. Abolin Co / NCSR “Demokritos”.
- 2016 Co-author of research project FAIRWAY “Farm systems that produce good Water quality for drinking water supplies” Call H2020-RUR-2016-2, Funding Scheme Horizon 2020 RIA, Activity RUR-04-2016
- 2015 EEA Grants, Ministry of Environment, energy and climate change. Project GR02. Titled: “Management of anthropogenic or biogenic emerging compounds, in sensitive lakes and water reservoirs”. Partners National and Kapodistrian University of Athens, Prefecture of Attica, NCSR “Demokritos”
- 2013 BMBF Grant, German Ministry of Environment, Title: “Oxidative and reductive remediation of emerging pollutants using nano-scale materials
- 2008 Greek/German Research Collaboration IKYDA 2008 – Study of the presence and degradation of pharmaceutical products in environmental samples. Environmental Pollution Laboratory, Aachen Germany

Supervision of undergraduate and post graduate students

Dr Christophoridis was fortunate to work with active researchers in the field of environmental chemistry. Initially he worked with the Environmental Pollution Control Lab of the Aristotle University of Thessaloniki (ENVILAB) giving him gradually the opportunity to supervise more than 15 undergraduate and graduate students and researchers. More specifically he has supervised the following students Thesis at the Environmental Pollution Control Lab of the Aristotle University of Thessaloniki:

Undergraduate AUTH:

2012 :Gougoutsia C. Method development for the determination of Trihalomethanes (THM) using GC-MS in drinking water samples of N. Greece.

2013 :Christia C. Pesticide determination in fruit and vegetables using QUECHERS method and analysis using UPLC-MS/MS.

2016 Kosma A. Development and validation of a MAE-based method for the efficient extraction and determination of heavy metals in cheese

Post-graduate Master

2010 Mitsika E., “Degradation of Pesticide Acetamiprid by Fenton Process and Determination of the Intermediate Formed By-products”

2011 : Kalogridi C., Drimaropoulou V. Analytical method development for the simultaneous determination of 400 pesticides in environmental samples using UPLC-MS/MS.

2013 Veloutsou S. AMPHETAMINES AND AMPHETAMINE-LIKE DRUG ANALYSIS IN WASTE WATER USING RP-UPLC- MS/MS

2012 Evgenakis M. “Heavy metal pollution and fractionation in surface sediments of Greek Lakes”

Post-graduate PhD

2015-now Chatzimpaloglou A. “Development of an SPE-UPLC-MS/MS method for the determination of 13 cytostatics in water. Application and application of various AOPs for their photocatalytical degradation and determination of their transformation products”,

2015 Mitsika E., “Determination of benzodiazepine pharmaceuticals in water and wastewater. Application and application of various AOPs for their photocatalytical degradation and determination of their transformation products”

He has also worked in the **National Kapodistrian University** of Athens, Dpt of Chemistry where he co-supervised one **undergraduate** student:

2014 Tsilikidis, I. “Ozonation of furosemide - elucidation of its transformation pathway using LC-qTOF-MS

For the past 4 years he has worked as a post-doc researcher at the **NCSR “Demokritos”** supervising the following master’s students:

2013-2014 Droungou A., Chemometric Development of an analytical LC-S/MS method for the simultaneous determination of CTs in water

Also he has co-supervised the following **PhD students** at NCSR “Demokritos”:

2014-now Zervou S-K, Study and determination of Cyanotoxins and Organic Pollutants in water samples

2014-now Argyropoulos H., Cyanotoxin determination in fish tissues – matrix effect

And the following undergraduate students in NCSR Demokritos:

2017-2018 Touloupi M., Konstantouraki A., Determination of metformin using HPLC-UV. Study of tis oxidative degradation and the produced transformation products using LC-MS and LC-qTOF.

Teaching Activities

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- 2002-2008 **Laboratory assistant:** course “Environmental Pollution Control” (8th semester of Chemistry Department, Aristotle University of Thessaloniki).
 - 2011: Environmental education to Civil servants of Eastern Macedonia (8 hours) “Water remediation technologies and informatics in pollution monitoring”. Life-Long Education Program, National Center of Public Administration and Local Government
 - 2009-2011: **Education in Environmental Analysis** – Leonardo da Vinci **CHEMLAB II** project: Development and application of suitable curriculum and training courses to train qualified members in Environmental Chemical Analysis. Courses on GC-MS, LC-MS/MS and Atomic Absorption Spectrometry, as well as laboratory exercises.
 - 2011-2012 Trainer for Organization of Vocational Education and Training (OEEK) in Food Chemistry and Pharmaceutical Chemistry
 - 2016-2017 **Trainer in Seminars on Advanced Chromatographic Methods** of Analysis of Drinking Water, Training seminars on Physicochemical Analysis and Management of Drinking Water Environmental Pollution Control Laboratory, Department of Chemistry, Faculty of Sciences, Aristotle University of Thessaloniki, Greece.
 - Environmental Education in Primary Schools of the Municipality of Thessaloniki on water pollution and water conservation methods.
 - Production of environmental education material (CD Titled “One drop of water” with applications, data, and tutorial games and activities.
 - 6/2018 53rd Summer School for graduate and post-graduate students, NCSR “Demokritos”: “Organic pollutants in water: targeted and non-targeted analysis approaches”

Organization of Conferences, Workshops, Events

- ✓ Organizer of the One-day meeting titled: “Pollution and remediation of water ecosystems”, 22/4/2007 Helexpo Congress Center, Thessaloniki.
- ✓ Organizer of the One-day Meeting titled: “Water resources pollution”, 15/5/2008, Telloglio Congress Center, Thessaloniki.
- ✓ 2014, 5 May, One day workshop in NCSR “Demokritos” titled “Cyanotoxins in Fresh Waters, Advances in Analysis, Occurrence, Treatment” Athens, Greece. Organizer and speaker
- ✓ 9-2013 Final 2 day meeting for the project CHEMLAB II” (2011-2013) “TRAINING OF CHEMICAL LABORATORY ASSISTANTS specialty: Environmental Chemistry”. Thessaloniki, Greece. Organizer and speaker
- ✓ Voluntary work at the non-profitable environmental Organization “Ecocity” and setup of the exhibition kiosk for the International exhibitions EnergyTech (29/3 – 1/4/2007) and Ecolink (19-22/4/2007)
- ✓ 10/10/2018: One day event «From source to tap: risk assessment of organic pollutants in the drinking water cycle of Athens», NCSR “Demokritos”, Industrial Scholarship Programs, S. Niarchos Foundation.
- ✓ 20-23/9/2021: Scientific Committee 12th International Conference on Instrumental Methods of Analysis Modern Trends and Applications, IMA 2021, Virtual Event

Participation in research Networks

- 1) CYANOCOST: CYANOCOST Action ES1105 Cyanobacterial blooms and toxins in water resources: Occurrence, impacts and management.
- 2) SCORE COST: Sewage Analysis CORE group Europe ES1307 to develop and expand an existing pan-European inter-disciplinary network, bringing together experts from relevant disciplines interested in the application and development of using the quantitative measurement of human biomarkers in sewage to evaluate lifestyle, health and exposure at the community level.
- 3) WaterTOP – COST Action CA18225 - Taste and Odor in Early Diagnosis of Source and Drinking Water Problems (1/10/2019 – 30/9/2023)