

Curriculum Vitae

Christophoridis E. Christophoros

Home Address : 37 Soumela St., Kalamaria 55132, Thessaloniki, Greece
Telephone number : (+30) 2310436716, (+30)6976793313
e-mail : cchrist@chem.auth.gr
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: 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**, specializing in the field of groundwater remediation from specific toxic pollutants with the use of permeable reactive barriers.

2008- : Start of **Master’s degree in GIS – Systems**, Lund University, Sweden. Distance learning course.

2011-2012 : Army duty

1.2.2012 – 30.11.2012:
Post-Doc (Research Committee Aristotle University of Thessaloniki – Scholarship) with Prof Dr Fytianos Konstantinos specializing in: “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.”

1.12.2012-31.3.2013:

Post-Doc (DAAD scholarship) in Technical University of Munich, Water Remediation Institute, Garching. Prof Dr. Thomas Letzel specializing in : ”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. Assoc Prof Dr. Thomaidis Nikolaos specializing in : ”Ozonation of selected emerging pollutants and byproducts identification using LC-MS/MS and qTOF MS.”

15.2.2014-15-2-2015:

Post-Doc (ARISTEIA Research Program) in Demokritos National Center for Scientific Research, Institute of Advanced Materials Physicochemical Processes, Nanotechnology and Microsystems 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.

DISTINCTIONS / AWARDS:

1997-1998	: Annual scholarship of the National Institute of Scholarships for excellence in the 1 st year of Undergraduate studies. (3 rd in class this year)
1998-1999	: Annual scholarship of the National Institute of Scholarships for excellence in the 2 nd year of Undergraduate studies. (2 nd in class this year)
1999-2000	: Annual scholarship of the National Institute of Scholarships for excellence in the 3 rd year of Undergraduate studies. (2 nd 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 of Onassis Foundation** for PhD Dissertation
- 2007 :**Scholarship of 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 Research leader of the 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.”**
- 11.2012 DAAD Scholarship for short research stay in Germany (4 months) 1.12.2012 – 31.3.2013 “specializing in: ”**Remediation pathway of selected pharmaceutical compounds using Reductive/Oxidative methods**” Technical University of Munich, Water Remediation Institute, Garching. Prof Dr. Thomas Letzel.

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.

Self Assessment	: Understanding		Speaking		Writing
<i>European Level</i>	Listening	Reading	Spoken Interaction	Spoken Production	
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 AOPs for the remediation and transformation of organic pollutants
- Determination of remediation by-products and toxicity profiles
- Analytical techniques for the determination and speciation of heavy metals and inorganic substances in various matrices (surface, sea and groundwater, soil and sediments)
- Analysis of organic compounds(pesticides, pharmaceuticals, organic solvents) in various matrices (surface- and groundwater, fruit and vegetables)
- 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.

WORK EXPERIENCE - PARTICIPATION IN RESEARCH

- 2002-2008 :Monitoring of the groundwater pollution in the municipality of Themi. (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.

- 2010 : Participation in interlaboratory study for heavy metal determination in seawater (ATEI Thessaloniki – Food Department)
- 24-29/10/2010 :**Greek/German Research Collaboration IKYDA 2008 2nd visit** – Study of the presence and degradation of pharmaceutical products in environmental samples. Environmental Pollution Laboratory, Aachen Germany.
- 4-2011 :Participation in **Interlaboratory Study (SCHEMA 22 01)** for the determination of Inorganic Pollutants in groundwater samples. **Award by the Research Committee** of the Aristotle University of Thessaloniki for being one of the top 5 Laboratories excelling in this exercise.
- 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.”**
- 11.2012 DAAD Scholarship for short research stay in Germany (4 months) 1.12.2012 – 31.3.2013 “specializing in:”**Remediation pathway of selected pharmaceutical compounds using Reductive/Oxidative methods**” Technical University of Munich, Water Remediation Institute, Garching. Prof Dr. Thomas Letzel.
- 5/2013 – 10/2013 Post doc Position in in the University of Athens, Chemistry Department with Assoc Prof Dr. Thomaidis Nikolaos, (**ARISTIA PROJECT**) specializing in : **”Ozonation of selected emerging pollutants and byproducts identification using LC-MS/MS and qTOF MS. Toxicity assessments using vibrio fischeri”**.
- 2013 Thesis Supervision (3 master students): **“Determination of pharmaceutical substances, illicit drugs, antipsychotic compounds and their by-products in Wastewater Treatment Facilities, N. Greece. Development of Advanced Oxidation Processes for the degradation, by-product determination and toxicity reduction of the compounds.** Environmental Pollution Control Lab, Chemistry Department, Aristotle University of Thessaloniki, Greece.
- 2013 Thesis supervision : **“Occurrence and life cycle of heavy metals in wastewater and sludge of WWTFs of Thessaloniki, N. Greece.”** Environmental Pollution Control Lab, Chemistry Department, Aristotle University of Thessaloniki, Greece.
- 2014 **PostDoc study** in NCST Demokritos (Athens Greece), titled: **“ CYANOWATER- Cyanotoxins in Fresh Waters, Advances in Analysis, Occurrence and Treatment ”**
- 2014 Supervision of a study for the development, optimization and validation of a method for the multiresidue determination of 30 pesticides and other organic pollutants using experimental design and LC-MS/MS

FURTHER EDUCATION / SEMINARS

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.

PUBLICATIONS / PRESENTATIONS CONFERENCES

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

- 11-13/3/2009 : Christophoridis C., Evgenidou E., Bizani E., Fytianos K. International Journal XENOWAC, Xenobiotics in the Urban Environment. **“Groundwater quality evaluation in the Municipality of Thermi (Thessaloniki Prefecture). Assessment of the results by the use of GIS.”** (Poster presentation)
- 2-5/9/2009 :Christophoridis C., Zouboulis A., Fytianos K. 11th International Conference on Environmental Science and Technology. Chania Crete **“Parameters affecting the removal of Cr(VI) from water using zero-valent iron.”** (Oral Presentation.)
- 23-26/9/2010 : Giouri A., Christophoridis C. XIX Congress of the Carpathian Balkan Geological Association. **“Assessment of heavy metals concentrations in sediments of Bogdanas River at the Assiros-Lagadas area, Northern Greece”** Thessaloniki Greece.
- 18-20/3/2011 : Bourliva A., Christophoridis C , 4th Environmental Conference of Macedonia, Helexpo,Thessaloniki. **“Determination of mineralogy, morphology and heavy metal content of urban road dust in the historic centre of the city of Thessaloniki”.**
- 18-20/3/2011 : Gougoutsia C., Christophoridis C., Fytianos K, 4th Environmental Conference of Macedonia, Helexpo,Thessaloniki. **“Pollution monitoring of groundwater in the Prefecture of Kilkis (N. Greece) using Ion Chromatography”.** (poster)
- 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 $H_3PW_{12}O_{40}$ ”, Frontiers in Metal Oxide Cluster Science 2014, Muffliers, Paris, France Oral Presentation

: C. Christophoridis, M. Kontaxaki, T. Fotiou, T. Triantis, T. Kaloudis, A. Hiskia., “**Photocatalytical degradation of cyanotoxin *Cylindrospermopsin* (CYN) using polyoxometalate $H_3PW_{12}O_{40}$, TiO_2 and impregnated TiO_2 -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

PUBLICATIONS / JOURNALS:

- ✓ Fytianos, K. Christophoridis, C. 2004, *Nitrate, arsenic and chloride pollution of drinking water in Northern Greece. Elaboration by applying GIS*, **Environmental Monitoring and Assessment**, 93: 55-67, 2004.
- ✓ Christophoridis, C., Fytianos, K., 2006, *Study of the conditions affecting the release of phosphorus from surface sediments of lakes Koronia and Volvi*. **Journal of Environmental Quality**, 35: 1181-1192.
- ✓ C. Christophoridis, T. Kouimtzis, M. Skoullis, “*Could the oceans contribute to the solution of global warming?*”, **Chemical Chronicles**, Regional Edition. October 2003.
- ✓ C. Christophoridis, “*Recycling packaging material in Greece and Europe. The case of Thessaloniki city*”, **Ecotec Journal**, Feb. 2007, pp 48-51.
- ✓ Evgenidou, E., Bizani, E., Christophoridis, C., Fytianos, K., 2007, *Heterogenous photocatalytic degradation of prometryn in aqueous solutions under UV-Vis Irradiation*. **Chemosphere**, 68, 1877-1882.
- ✓ Christophoridis, C., Dedepsidis, D., Fytianos, K. 2009, *Occurrence and distribution of selected heavy metals in the surface sediments of Thermaikos Gulf, N. Greece. Assessment using pollution indicators.*” **Journal of Hazardous Materials**, 168, 1082-1091.
- ✓ Giouri, A., Vavelidis, M., Melfos, V., Christophoridis, C., 2010, *Geochemical study of the Bogdanas river waters at the Assiros-Lagada area, Northern Greece*. **Journal of Environmental Protection and Ecology** 11 (2), 424-433
- ✓ Christophoridis, C., Bizani, E., Mitsika, E., Fytianos, K., 2010. *Monitoring of environmental parameters using GIS. Applications to Water Directive 2000/60 EC*. **Chemical Chronicles**, Regional Edition. December 2010, Vol. 72, Iss. 10.
- ✓ Zacharis CK, Christophoridis C, Fytianos K. (2012) *Vortex-assisted liquid-liquid microextraction combined with gas chromatography-mass spectrometry for the determination of organophosphate pesticides in environmental water samples and wines*. **J Sep Sci.** 35(18):2422-9. doi: 10.1002/jssc.201200309
- ✓ Mitsika, E., Christophoridis, C., Fytianos, K., (2013) “*Fenton and Fenton-like oxidation of pesticide Acetamiprid in water samples: Kinetic study of the degradation and optimization using Response Surface Methodology.*” **Chemosphere** 93(9), 1818–1825
- ✓ Christia, C., Christophoridis, C, Bizani, E., Fytianos, K., “*DETERMINATION OF PESTICIDE RESIDUES IN FRUIT SAMPLES ORIGINATING FROM GREECE: STUDY AND OPTIMIZATION OF QuEChERS METHOD USING LIQUID CHROMATOGRAPHY COUPLED WITH TANDEM MS*”. under review **Environmental Science and Pollution Research**
- ✓ Kalogridi, C., Drimaropoulou, V., Christophoridis, C., Bizani, E., Fytianos, K. “*Temporal and spatial distribution of multiclass pesticide residues in lake waters of Northern Greece: Application of an optimized SPE-UPLC-MS/MS pretreatment and analytical method –*

PART I, **Environmental Science and Pollution Research** 21(12):7239-51. doi: 10.1007/s11356-014-2793-z

- ✓ Kalogridi, C., Drimaropoulou, V., Christophoridis, C., Bizani, E., Fytianos, K. “*Temporal and spatial distribution of multiclass pesticide residues in lake sediments of Northern Greece: Application of an optimized SPE-UPLC-MS/MS pretreatment and analytical method – PART II*”, **Environmental Science and Pollution Research** 21(12):7252-62. doi: 10.1007/s11356-014-2794-y
- ✓ Christophoridis C., Zouboulis, A., Fytianos, K. “*Removal of heavy metals using natural and modified zeolitic material. Batch and column studies*”, **Desalination**, under review
- ✓ Christophoridis C., Zouboulis A., Fytianos, K., “*Reductive removal of chromate ions under various physicochemical conditions, using zero-valent iron. Batch and column studies*”, **Journal of Hazardous Materials**, under review
- ✓ Christophoridis, C., Zouboulis, A., Fytianos, K., “*Reductive transformation of pesticide Imidacloprid using zero-valent iron. Determination of by-products and toxicity variations*”, **Water Research**, under review
- ✓ Drimaropoulou, V., Kalogridi, C., Christophoridis, C., Bizani, E., Fytianos, K., “*Development and validation of a pretreatment and analytical method for the simultaneous determination of multiclass pesticide residues in surface and groundwater, using UPLC-MS/MS*” to be submitted for review
- ✓ Christophoridis, C., Letzel T., (2012) “*Degradation pathways of psychoactive pharmaceuticals under various environmental matrices and conditions using EC-MS*” to be submitted for review
- ✓ Gougoutsou C., Christophoridis, C., Zacharis, C.K., Fytianos, K., (2014) Assessment, modeling and optimization of parameters affecting Disinfection By-Product formation in water. **Environmental Science and Technology** under review

PUBLICATIONS / BOOKS:

-
- ✓ 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
 - ✓ C. Christophoridis, E. Bizani and K. Fytianos. Agricultural and Environmental Informatics, Governance, and Management: Emerging Research Applications. Chapter : *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.

- ✓ 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

REVIEWS

Journal of Hazardous Materials:

- Speciation of Heavy metals in the surface sediments from the bay of Luanda, Angola.
- Assessment of single extraction methods for the prediction of bioavailability of metals to *Brassica juncea* L. Czern. (var. vaibhav) grown on tannery waste contaminated soil
- Review: In situ and bioremediation of organic pollutants in aquatic sediments
- Aquaculture-derived Enrichment of Organochlorine Pesticides (OCPs) in Coastal Sediments of the Pearl River Delta, China

Central European Journal Of Chemistry

- Mung bean response during immobilization of exchangeable aluminum in acidic soil
- Activated carbons for heavy metal ions removal: A systematic review of recent literature

Desalination and Water Treatment

- Removal of heavy metals from leachates using organic/inorganic permeable reactive barriers

Journal of Environmental Chemistry and Ecotoxicology

- Leachable Heavy Metals and Ecotoxicity Assessment of Sediment from the Lagos Lagoon, Nigeria
- A Study of Parabens and Bisphenol A in Surface Water and Fish Brain Tissue from the Greater Pittsburgh Area

Journal of Environmental Research

- Sediment quality assessment of two industrialized areas of Spain

Science of the Total Environment

- Changes of heavy metal and nutrient concentrations in the surface sediments of the Lagoon of Venice (Italy) since the 1980s: an ecological assessment
- STOTEN-D-13-02006 Enrichment and ecotoxicological significance of heavy metals in surficial sediments from a typical mariculture bay in South China 7-2013
- STOTEN-D-13-02974 Analysis of Drugs of Abuse in Wastewater from Two Canadian Cities

Chemical Engineering Journal

- CEJ-D-13-04396 Electrochemical degradation and mechanistic analysis of microcystin-LR at boron-doped diamond electrode

Chemosphere

- CHEM31282 Heterogeneous photocatalysis of moxifloxacin in water: chemical transformation and ecotoxicity
- CHEM33486 Application of response surface methodology for Microcystin-LR degradation and mechanism analysis in gas-liquid hybrid discharge system

Environmental Science and Pollution Research

- ESPR-D-13-02875R1 Assessing parameters for improved Fenton degradation of the antidepressant sertraline using zero-valent iron

EDITOR in Central European Journal of Chemistry

- Ecotoxicological characterisation of exhaust particulates from diesel-powered light-duty vehicles
- A study on removal of nickel(II) and copper(II) ions from aqueous solution by coal fly ash
- A comparison of fluorescein and deuterated water as tracers for determination of constructed wetland retention time
- Vortex-assisted ionic liquid based liquid-liquid microextraction of selected pesticides from a manufacturing wastewater sample
- Removal of Diazinon Pesticide from Pesticide-Contaminated Water by Adsorption Using Bentonite: Kinetics, Equilibrium and Thermodynamic Studies

TEACHING – WORK EXPERIENCE

- ✓ **Manager and coordinator of the greek part of Leonardo da Vinci Project “CHEMLAB II” (2011-2013) “TRAINING OF CHEMICAL LABORATORY ASSISTANTS specialty: Environmental Chemistry”**
- ✓ Teaching of **the laboratory course “Environmental Pollution Control”** (8th semester of Chemistry Department) during the years 2002 –2008.
- ✓ **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, Xanthi 11/11/2008, 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.
- ✓ **2004-2005** Press Department, **International Film Festival**, Thessaloniki
- ✓ **2003** Press Department, **International Documentary Festival**, Thessaloniki
- ✓ **World Environment Day 5/6/2008:** Presentation of the educational material to 16 selected primary schools of N. Greece. Organization: Ministry of Macedonia-Thrace.
- ✓ **Chemistry and Physics tutoring** to young High School students for the University Entrance examinations.
- ✓ **Responsible for the acquisition procedure and document preparation of ISO 9001** for the Environmental Pollution Control Laboratory (January to April 2008)
- ✓ 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)
- ✓ **President of the Organization Committee of the One-day meeting** titled: “Pollution and remediation of water ecosystems”, 22/4/007 Helexpo Congress Center, Thessaloniki.
- ✓ **President of the Organization Committee of the One-day Meeting** titled: “Water resources pollution”, 15/5/2008, Telloglio Congress Center, Thessaloniki.
- ✓ **Teacher and examiner for the Institution of Vocational Training in Greece** 2011-2012
Specialty: “Analytical Chemistry” and “Food Chemistry”

OTHER INTERESTS

- Participation in articles of local environmental interest
- Black and white photography – dark room applications
- Cinema (work at the International FilmFestival)