

## PERSONAL INFORMATION

## Theodoros Chatzimitakos



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Sex Male | Date of birth 30/03/1990 | Nationality Greek

## EDUCATION AND TRAINING

September 2020 – Today

**Postdoc Researcher**

Laboratory of Analytical Chemistry, Department of Chemistry, University of Ioannina

Title: Production of carbon quantum carbon dots by *Dunaliella salina* and their utilization in innovative analytical applications

October 2020 – Today

**Master's degree: Teaching and Learning Technologies of Natural Sciences**

Department of Primary Education, School of Education, University of Ioannina

January 2016 – June 2020

**PhD diploma**

Level 8 according to European Qualifications Framework

Department of Chemistry, Faculty of Science, University of Ioannina

- Thesis title: Development of analytical methods using magnetic nanomaterials for the microextraction and determination of antibiotic sulfonamides after liquid chromatographic separation.
- **Scholarship** received from General Secretariat for Research and Technology (GSRT) and Hellenic Foundation for Research and Innovation (HFRI)

September 2013 – November 2015

**Master's degree in Analytical chemistry techniques and applications: Chemical and biochemical technologies**

Level 7 according to European Qualifications Framework

Department of Chemistry, Faculty of Science, University of Ioannina

- Thesis title: Antibacterial properties of three metal nanoparticles: Development of a methodology for the metabolomics study of bacteria after their exposure to nanoparticles

September 2014 – September 2015

**Certification for oenological education**

Department of Chemistry, Faculty of Science, University of Ioannina

- Thesis title: *Review of analytical techniques for the determination of phenolic compounds in wines*

September 2008 – 2013

**Bachelor of Science in Chemistry**

Level 6 according to European Qualifications Framework

Department of Chemistry, Faculty of Science, University of Ioannina

- Specialization: Analytical and inorganic chemistry
- Thesis title: *Development of an analytical methodology for the determination of six biogenic amines in food samples and biological fluids, using nuclear magnetic resonance spectroscopy and gas chromatography*

## TEACHING EXPERIENCE

October 2021 – Today

**Academic Fellow**

Department of Food Science and Nutrition of the University of Thessaly for teaching the courses: Laboratory of Analytical Chemistry (4th semester) and Laboratory of Food Chemistry (6th semester)

June 2021 – Present

**Seminar presenter: Introduction to Nanotechnology**

Center for lifelong learning Tsaousis, Lamia, Greece

June 2021 – Present

**Seminar presenter: Nanotechnology and its applications in Food and agricultural industries**

June 2021 – September 2017

### Graduate teaching assistant

Teaching additional courses at the course: Educational Research Methodology II at the Pedagogical Department of Primary Education of the University of Ioannina

September 2019 – Present

### Seminar presenter: Modern laboratory methods of analytical chemistry

Center for lifelong learning Tsaousis, Lamia, Greece

- Errors in analytical chemistry
- Method validation
- Sample preparation

March 2017 – June 2017

### Graduate teaching assistant

2<sup>nd</sup> Analytical Chemistry Laboratory, 4<sup>th</sup> semester of the undergraduate Chemistry curriculum, Faculty of Science, University of Ioannina

- Supervision and guidance of students during laboratory exercises
- Preparation of solutions and reagents for the experiments
- Teaching laboratory exercises

October 2020 – February 2021

### Instructor at Public Institute of Vocational Training at Igoumenitsa

Laboratory of Analytical Chemistry I in the specialty: Pharmacy Assistant

October 2018 – January 2019

October 2017 – January 2018

October 2016 – January 2017

### Voluntary teaching assistant

Introductory Chemistry Laboratory, 1st semester of the undergraduate Chemistry curriculum, Faculty of Science, University of Ioannina

- Supervision and guidance of students during laboratory exercises
- Preparation of solutions and reagents for the experiments

Work Experience  
May 2021 – Present

### Researcher for the project: “Support and transfer of know-how for the production of wheat flour with reduced asparagine and baked goods with reduced percentage of acrylamide” (ACRYLESS)

- Specialized analyzes of selected ingredients in the different products of the agri-food chain of interest of the program
- Participation in the evaluation of the conditions of collection, storage and milling of wheat, the storage conditions of the flour and the requirements in mechanical equipment
- Evaluation of sampling design and export of results for free asparagine content and samples of flour of selected variety
- Participation in the conduct of physicochemical analyzes of all used raw materials
- Participation in the evaluation of the conditions of the pilot industrial scale of pastry production in baking time, temperature and humidity of dough and final product
- Evaluation of acrylamide levels in prepared baked goods
- Participation in the physicochemical analysis of all produced bakery products
- Participation in the export of the results of the organoleptic tests

MAY 2021 – Present

### Researcher for the project: “Study of Dunaliella salina microalgae for the production of nanomaterials with the aim of utilizing them in innovative applications in technology and biomedicine” (DunaDots)

- Synthesis of fluorescent quantum carbon dots and their characterization
- Development of fluorometric methods for the determination of selected molecules of environmental and / or biological interest
- Development of a prototype device for direct, on-site fluorescence detection of molecules based on quantum carbon dots and smartphone application

January 2016 – April 2016

**Library assistant**

Library and Information Center of University of Ioannina

- Loan library materials to patrons and collect returned materials
- Maintain computer databases used to locate library materials
- Sort and re-shelve returned books, periodicals, and other materials

March 2015 – June 2015

**Researcher for the project: “Integrated management of populations of alien fish species *Carassius gibelio* through selective fishing and production of high added value products”**

*Fisheries Operational Program 2007-2013*

- Sample pre-treatment
- Analysis of the chemical composition of the samples
- Results evaluation
- Writing an article for publication of the results in a scientific journal
- Presentation of the results in conference

October 2013 – December 2013

**Researcher for the project: “Study of iron forms in modified nanomaterials, measurement of their magnetic activity”**

Program: “Chemically modified magnetic nanomaterials”, CP FOODLAB LTD

- Study of iron forms in different nanomaterials
- Measurements of the magnetic activity of different nanomaterials
- Results evaluation

March 2013 – May 2013

**Researcher for the project: “Characterization of chemically modified magnetic nanomaterials”**

Program: “Chemically modified magnetic nanomaterials combined with inductively coupled plasma for the determination of trace amounts of heavy metal-NanoICP”, CP FOODLAB LTD

- Characterization of nanomaterials with different techniques
- Results evaluation

July 2012 – August 2012

**Traineeship**

Biochemical Laboratory, University Hospital of Ioannina, Stavros Niarchos Avenue

- Biochemical analyses of blood and urine samples
- Immunological and hormonal tests
- Sample pre-treatment, processing and preservation
- Instrument calibration
- Laboratory database handling

**PERSONAL SKILLS**

Mother tongue Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Certificate of Proficiency in English, University of Michigan, March 2007					
German	B1	B1	B1	B1	B1
Zertifikat Deutsch, Goethe – Institut, July 2005					
Russian	<A1	<A1	<A1	<A1	<A1
Attending courses for obtaining a degree					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

- Communication skills**
- Social character and very communicative person, with good communication skills, acquired and developed through my job experience and my collaboration with the academic staff of the university
  - Emotional intelligence

- Organisational / managerial skills**
- Leadership and decision-making skills (expected to be grown further after taking part in the Future Leaders Program)
  - Management skills
  - Quick perception of situations and flexibly to changes
  - Punctual with time organization skills for timely responses to deadlines
  - Increased multi-tasking ability
  - Experience in the organization of seminars by the: Operational Programme for Education and Initial Vocational Training

- Job/Laboratory-related skills**
- Extensive experience in the use of gas and liquid chromatography systems, with different detectors (FID / ECD / MS / UV-Vis / DAD / Fluorescence)
  - Advanced user of spectrofluorimeters for the fluorometric-based detection of molecules
  - Independent user of Nuclear Magnetic Resonance (NMR) systems
  - Experience in Atomic Absorption Spectrometry (AAS)
  - Experience in developing new analytical methods, focusing on the sample preparation
  - Ability for rapid learning of operating various instruments and the related software
  - Synthesis and characterization of nanomaterials
  - Conducting metabolomics analysis

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Independent user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

ACTA IT degree, obtained from the program: “ε-κπαιδευτείτε” (funded by the Greek National Research and Technology Network) due to leading score in National Entrance Examinations

- Excellent knowledge of Office software (Word, Excel, Access, PowerPoint, Outlook)
- Very good knowledge of ChemOffice software, gained through personal training
- Very good knowledge of CorelDraw X5, X6 software, gained through personal education
- Basic computer architecture knowledge and ability for assembly, modification or repair of personal computers, gained through personal training

- Driving licence** Car driving license (since 2010)

**ADDITIONAL INFORMATION**

**Book Chapters** **“Carbon dots in sample preparation”** T. Chatzimitakos, C. Stalikas in: Carbon dots in Analytical Chemistry: Detection and Imaging, In Press, Elsevier

**“Synthesis of carbon nanodots and their therapeutic applications”** A. Kasouni, T. Chatzimitakos, C. Stalikas in: Biosynthesized Nanomaterials, In Press, Elsevier

**“Antimicrobial properties of carbon quantum dots”** T. Chatzimitakos, C. Stalikas in: Nanotoxicity: Prevention, and Antibacterial applications of Nanomaterials, Rajendran S., et.al (eds), In Press, Elsevier

**“Carbon nanodots from natural (re)sources: A new perspective on analytical chemistry”** T. Chatzimitakos, C. Stalikas in: “Handbook of Nanomaterials in Analytical Chemistry: Modern Trends in Analysis, Hussain C. (eds), 2020, pages 3-28, Elsevier

**“Metabolic fingerprinting of bacteria exposed to nanomaterials, using online databases, NMR and high-resolution mass spectrometry”** T. Chatzimitakos, C. Stalikas in Methods in Molecular Biology: Nanotoxicity Methods and Protocols, 2019, 1894, pages 271-280, Springer

## Guest Editor in Journals

**Guest Editor for the Special Issue "Carbon dots in Analytical Chemistry" of *Molecules*** ([Molecules | Special Issue : Carbon Nanodots for Analytical Applications \(mdpi.com\)](#))

**Guest Editor for the Special Issue "Advances in Nanoecotoxicology: From the Molecular to the Biological Level and Back" of: *Nanomaterials***  
([www.mdpi.com/journal/nanomaterials/special\\_issues/Nano\\_ecotoxicology](http://www.mdpi.com/journal/nanomaterials/special_issues/Nano_ecotoxicology))

**Guest Editor for the Special Issue "Recent Advances in Carbon Dots" of *C Journal of Carbon Research*** ([www.mdpi.com/journal/carbon/special\\_issues/carbon\\_dots](http://www.mdpi.com/journal/carbon/special_issues/carbon_dots))

## Publications

**29) "The unexplored wound healing activity of *Urtica dioica* L. extract: An in vitro and in vivo study"**

A. Kasouni, T. Chatzimitakos, C. Stalikas, T. Trangas, A. Papoudou-Bai, A. Troganis  
*Molecules*, Volume 26, Issue 20, 2021, article Number 6248

**28) "Performance study of a magnetic iron–copper bimetallic material for the removal of an environmental "cocktail" of diverse hazardous organic micropollutants from aqueous samples"**

A. Vasilas, T. Chatzimitakos, L. Sygellou, C. Stalikas  
*Nanotechnology for Environmental Engineering*, Volume 6, 2021, article number: 66

**27) "Magnetic ionic liquids in sample preparation: Recent advances and future trends"**

T. Chatzimitakos, P. Anagnostou, I. Constantinou, K. Dakidi, C. Stalikas  
*Separations*, Volume 8, 2021, article number: 153

**26) "Metabolomic Profiling Unveils the Impact of Non-Doped and Heteroatom-Doped Carbon Nanodots on Zebrafish (*Danio rerio*) Embryos"**

T. Chatzimitakos, C. Pliatsika, I. Chousidis, I. Leonardos, C. Stalikas  
*Nanomaterials*, Volume 11, 2021, article number: 483

**25) "Citric acid-based carbon dots: From revealing new insights into their biological properties to demonstrating their enhanced wound healing potential by in vitro and in vivo experiments"**

A. Kasouni, T. Chatzimitakos, A. Troganis, C. Stalikas  
*Materials Today Communications*, Volume 26, January 2021, article number:102019

**24) "Carbon Nanodots Synthesized from *Dunaliella salina* as Sun Protection Filters"**

T. Chatzimitakos, A. Kasouni, A. Troganis, I. Leonardos, I. Tzovenis, A. Ntzouvaras and C. Stalikas  
*C Journal of Carbon Research*, Volume 6, Issue 4, October 2020, article number:69

**23) "Sponges and sponge-like materials in sample preparation: A journey from past to present and into the future"**

T. Chatzimitakos and C. Stalikas  
*Molecules*, Volume 25, Issue 16, August 2020, 3673

**22) "Cannabinol in the spotlight: Toxicometabolomic study and behavioral analysis of zebrafish embryos exposed to the unknown cannabinoid"**

I. Chousidis, T. Chatzimitakos, D. Leonardos, M. Filiou, C. Stalikas and Ioannis Leonardos,  
*Chemosphere*, Volume 252, August 2020, 126417

**21) "Zinc ferrite as a magnetic sorbent for the dispersive micro solid-phase extraction of sulfonamides and their determination by HPLC"**

T. Chatzimitakos and C. Stalikas  
*Microchemical Journal*, Volume 155, June 2020, Article Number: 104670

**20) "Exploring the antibacterial potential and unraveling the mechanism of action of non-doped and heteroatom-doped carbon nanodots"**

T. Chatzimitakos, A. Kasouni, A. Troganis, C. Stalikas  
Journal of Nanoparticle Research, Volume 22, January 2020, Article Number: 36

**19) "Magnetic graphene oxide as a convenient nanosorbent to streamline matrix solid-phase dispersion towards the extraction of pesticides from vegetables and their determination by GC-MS"**

T. Chatzimitakos, K. Karali, C. Stalikas  
Microchemical Journal, Volume 151, December 2019, Article Number: 104247

**18) "Bioimaging applications of carbon nanodots: A review"**

A. Kasouni, T. Chatzimitakos, C. Stalikas  
C Journal of Carbon Research, Volume 5, April 2019, Article Number: 19

**17) "Matrix solid-phase dispersion based on magnetic ionic liquids: An alternative sample preparation approach for the extraction of pesticides from vegetables"**

T. Chatzimitakos, J. Anderson, C. Stalikas  
Journal of Chromatography A, Volume 1581-1582, December 2018, Pages 168-172

**16) "Enhanced magnetic ionic liquid-based dispersive liquid-liquid microextraction of triazines and sulfonamides through a one-pot, pH-modulated approach"**

T. Chatzimitakos, S. Pierson, J. Anderson, C. Stalikas  
Journal of Chromatography A, Volume 1571, October 2018, Pages 47-54

**15) "Melamine sponge functionalized with urea-formaldehyde co-oligomers as a sorbent for the solid-phase extraction of hydrophobic analytes"**

M. García-Valverde, T. Chatzimitakos, R. Lucena, S. Cárdenas, C. Stalikas  
Molecules, Issue 10, October 2018,

**14) "Human fingernails as an intriguing precursor for the synthesis of nitrogen and sulfur-doped carbon dots with strong fluorescent properties: Analytical and bioimaging applications"**

T. Chatzimitakos, A. Kasouni, L. Sygellou, I. Leonardos, A. Troganis, C. Stalikas  
Sensors and Actuators B: Chemical, Volume 267, August 2018, Pages 494-501

**13) "Melamine sponge decorated with copper sheets as a novel material for microextraction of sulphonamides prior to their HPLC determination"**

T. Chatzimitakos, C. Stalikas  
Journal of Chromatography A, Volume 1554, June 2018, Pages 28-36

**12) "Carbonization of human fingernails: Towards the sustainable production of multifunctional nitrogen- and sulfur-co doped carbon quantum dots as highly luminescent probe with extra cell proliferative/migration properties"**

T. Chatzimitakos, A. Kasouni, A. Troganis, C. Stalikas  
ACS Applied Materials & Interfaces, Volume 10, May 2018, Pages 16024-16032

**11) "Selective FRET-based sensing of 4-nitrophenol and cell imaging capitalizing on the fluorescent properties of carbon nanodots from apple seeds"**

A. Chatzimitakou, T. Chatzimitakos, A. Kasouni, L. Sygellou, A. Avgeropoulos, C. Stalikas  
Sensors and Actuators B: Chemical, Volume 258, April 2018, Pages 1152-1160

**10) "Two of a kind but different: Luminescent carbon quantum dots from Citrus peels for iron and tartrazine sensing and cell imaging"**

T. Chatzimitakos, A. Kasouni, L. Sygellou, A. Avgeropoulos, A. Troganis, C. Stalikas, Talanta, Volume 175, December 2017, Pages 305-312

**9) "Graphene-functionalized melamine sponges for microextraction of sulfonamides from food and environmental samples"**

T. Chatzimitakos, V. Samanidou, C. Stalikas, Journal of Chromatography A, Volume 1522, November 2017, Pages 1-8

8) **“Carbon-based nanomaterials functionalized with ionic liquids for microextraction in sample preparation”**

T. Chatzimitakos, C. Stalikas, Separations, Volume 4, Issue 2, April 2017, Article Number: 14

**Received Separations Best Paper Award 2019 from all papers published between 1 January 2017 and 31 December 2018**

7) **“Qualitative alterations of bacterial metabolome after exposure to metal nanoparticles with bactericidal properties: A comprehensive workflow based on <sup>1</sup>H NMR, UHPLC-HRMS, and metabolic databases”**

T. Chatzimitakos, C. Stalikas, Journal of Proteome Research, Volume 15, Issue 9, September 2016, Pages 3322-3330

6) **“Antibacterial, anti-biofouling and antioxidant prospects of metal based nanomaterials”**

T. Chatzimitakos, A. Kallimanis, A. Avgeropoulos, C. Stalikas  
CLEAN – Soil, Air, Water, Volume 44, Issue 7, July 2016, Pages 794-802

5) **“Ion-pair assisted extraction followed by <sup>1</sup>H NMR determination of biogenic amines in food and biological matrices”**

T. Chatzimitakos, V. Exarchou, S. Ordoudi, Y. Fiamegos, C. Stalikas  
Food Chemistry, Volume 202, July 2016, Pages 445-450

4) **“1-Butyl-3-aminopropyl imidazolium-functionalized graphene oxide as a nanoadsorbent for the simultaneous extraction of steroids and  $\beta$ -blockers via dispersive solid-phase microextraction”**

M. Serrano, T. Chatzimitakos, M. Gallego, C. Stalikas  
Journal of Chromatography A, Volume 1436, Issue 4, March 2016, Pages 9-18

3) **“Magnetic ionic liquid in stirring-assisted drop-breakup microextraction: Proof-of-concept extraction of phenolic endocrine disrupters and acidic pharmaceuticals”**

T. Chatzimitakos, C. Binellas, K. Maidatsi, C. Stalikas  
Analytica Chimica Acta, Volume 910, Issue 3, March 2016, Pages 53-59

2) **“Octyl-modified magnetic graphene as a sorbent for the extraction and simultaneous determination of fragrance allergens, musks, and phthalates in aqueous samples by gas chromatography with mass spectrometry”**

K. Maidatsi, T. Chatzimitakos, V. Sakkas, C. Stalikas  
Journal of Separation Science, Volume 38, Issue 21, November 2015, Pages 3758-3765,

1) **“In situ trapping of As, Sb and Se hydrides on nanometer-sized ceria-coated iron oxide – silica and slurry suspension introduction to ICP-OES”**

A. Dados, E. Kartsiouli, T. Chatzimitakos, C. Papastephanou, C. Stalikas  
Talanta, Volume 130, Issue 1 December 2014, Pages 142-147

H-index Scopus: 14 (7/7/2021)

Google Scholar: 15 (7/7/2021)

Oral presentations

6) **“Enhanced variants of microextraction procedures based on magnetic ionic liquids”, at “11<sup>th</sup> International Conference on Instrumental methods of analysis: Modern Trends and applications”, 22-25 September 2019, Ioannina, Greece**

5) **“Detection of hexavalent chromate, cell bioimaging and promotion of cell cycle: three applications of carbon quantum dots with high quantum yield, from human fingernails”, at “5<sup>th</sup> Conference of Department of Chemistry of University of Ioannina”, 29-30 September 2017, Ioannina, Greece**

4) **“Antibacterial properties of three metal nanoparticles - method development for the metabolomic study of bacteria exposed to the nanomaterials”, at “22<sup>nd</sup> PanHellenic Chemistry Conference”, 2-4 December 2016, Thessaloniki, Greece**

3) **“Chemical composition of *Carassius gibelio roes* – Comparison with commercially available products”, at “16<sup>th</sup> PanHellenic Conference of Ichthyology”, 6-9 October 2016, Kavala, Greece**

2) **“Synthesis of luminescent carbon quantum dots from orange peels for the detection of iron in biological fluids and cell bioimaging”**, at *“14<sup>th</sup> PanHellenic Conference of Clinical Chemistry”*, 29 September - 1 October 2016, Ioannina, Greece

1) **“Dispersive liquid-liquid microextraction method using magnetic ionic liquids for the determination of phenolic endocrine disruptors and acidic pharmaceuticals in aqueous matrices”**, at *“8<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment & 14<sup>th</sup> Symposium on Chemistry and Fate of Modern Pesticides”*, 18-21 September 2014, Ioannina, Greece

## Posters

16) **“Fabrication of a novel polydopamine-modified luffa sponge for the sorption-based extraction in sample pretreatment”**, at *“12<sup>th</sup> International Conference on “Instrumental Methods of Analysis” 20-23 September 2021*

15) **“Fluorescent carbon nanodots from Dunaliella salina biomass and their application as a 4-nitrophenol nanoprobe”**, at *“12<sup>th</sup> International Conference on “Instrumental Methods of Analysis” 20-23 September 2021*

14) **“Insights into the impact of 2,6-dichloro-1,4-benzoquinone and 2,6-dichloro-3-hydroxy-1,4-benzoquinone on human keratinocytes metabolism through an NMR metabolomic study”**, at *“12<sup>th</sup> International Conference on “Instrumental Methods of Analysis” 20-23 September 2021*

13) **“Effect of Cannabinol on Zebrafish larvae (Danio Rerio Hamilton 1822): Metabolomic study using 1H-NMR”**, at *“13<sup>th</sup> Cyprus-Greece Chemistry conference”*, 31 October-3 November 2019, Nicosia, Greece

12) **“Metabolomic profiling of zebrafish with nmr and LC-MS/MS after exposure to non-doped, n-doped and n,s-doped carbon nanodots”**, at *“11<sup>th</sup> International Conference on Instrumental methods of analysis: Modern Trends and applications”*, 22-25 September 2019, Ioannina, Greece

11) **“Synthesis of magnetic bimetallic Fe-Cu nanoparticles for the dispersive microextraction of emerging pollutants”**, at *“11<sup>th</sup> International Conference on Instrumental methods of analysis: Modern Trends and applications”*, 22-25 September 2019, Ioannina, Greece

10) **“Magnetic graphene oxide solid-phase extraction of selected pharmaceuticals from environmental waters”**, at *“11<sup>th</sup> International Conference on Instrumental methods of analysis: Modern Trends and applications”*, 22-25 September 2019, Ioannina, Greece

9) **“Melamine sponge functionalized with graphene for the microextraction and detection of sulfonamides in food and environmental water samples”** at *“5<sup>th</sup> Conference of Department of Chemistry of University of Ioannina”*, 29-30 September 2017, Ioannina, Greece

8) **“Investigation of the antibacterial properties of non-doped, nitrogen-, nitrogen/sulfur-doped quantum dots from citric acid: study of the bacterial metabolomic fingerprints”** at *“22<sup>nd</sup> PanHellenic Chemistry Conference”*, 2-4 December 2016, Thessaloniki, Greece

7) **“Synthesis of luminescent carbon quantum dots from human nails for the detection of colorant E110 and cell imaging”** at *“22<sup>nd</sup> PanHellenic Chemistry Conference”*, 2-4 December 2016, Thessaloniki, Greece

6) **“Synthesis of luminescent carbon quantum dots from selected citrus fruits: Application in cell bioimaging and analysis of iron and tartrazine (E102)”** at *“22<sup>nd</sup> PanHellenic Chemistry Conference”*, 2-4 December 2016, Thessaloniki, Greece

5) **“Luminescent carbon quantum dots from human nails: a novel nanomaterial for cell bioimaging”**, at *“14<sup>th</sup> PanHellenic Conference of Clinical Chemistry”*, 29 September - 1 October 2016, Ioannina, Greece



4) **“Metabolomic study and impact of iron, copper and iron-copper nanoparticles on gram positive and negative bacteria”**, at “8<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment & 14<sup>th</sup> Symposium on Chemistry and Fate of Modern Pesticides”, 18-21 September 2014, Ioannina, Greece

3) **“Octylamine-modified magnetic graphene as a sorbent for the extraction and simultaneous determination of fragrance-allergens, musks and phthalates in aqueous matrices”**, at “8<sup>th</sup> European Conference on Pesticides and Related Organic Micropollutants in the Environment & 14<sup>th</sup> Symposium on Chemistry and Fate of Modern Pesticides”, 18-21 September 2014, Ioannina, Greece

2) **“Graphene-based magnetic nanosorbents for the enrichment of environmental organic pollutants prior to their determination by gas chromatography-mass spectrometry”**, at “17<sup>th</sup> International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region 2013”, 28 September-1 October 2013, Istanbul, Turkey

1) **“Selective ion-pair assisted extraction and H-NMR determination of biogenic amines in various matrices”**, at “8<sup>th</sup> International Conference on Instrumental Methods of Analysis: Modern Trends and Applications (IMA)”, 15-19 September 2013, Thessaloniki, Greece

#### Reviewer for manuscripts

- Applied Physics A
- ACS Omega
- Industrial Crops and Products
- Talanta
- Separation & Purification Reviews
- Journal of Chromatography A
- Industrial and Engineering Chemistry Research
- RSC Advances
- Journal of Photochemistry and Photobiology A: Chemistry
- Microchemical Journal
- ChemistrySelect
- Journal of Materials Chemistry B
- ACS Applied Nanomaterials
- Chemical Papers

#### Mentoring

Participation in the 1<sup>st</sup> cycle of Mentoring Program of University of Ioannina, with Dr. Iliopoulou Helen, (mentor) commissioned researcher at the Laboratory of Environmental Fuels and Hydrocarbons (LEFH) of Chemical Process Engineering Research Institute (CPERI) at Centre for Research and Technology-Hellas (CERTH)

#### Summer School

**Introduction to Basic Statistical Tools and Data Analysis in Research**, Ioannina, June 2018

#### Attended Conferences

**11<sup>th</sup> International Conference on Instrumental methods of analysis: Modern Trends and applications** (22-25 September 2019)

**10<sup>th</sup> PanHellenic Conference of Hellenic Society of Basic and Clinical Pharmacology** (25-27 May 2018)

**5<sup>th</sup> Conference of Department of Chemistry of University of Ioannina** (29-30 September 2017)

**22<sup>nd</sup> PanHellenic Chemistry Conference**, (2-4 December 2016)

**14<sup>th</sup> PanHellenic Conference of Clinical Chemistry** (29 September - 1 October 2016)

**4<sup>th</sup> PanHellenic Conference of Green Chemistry and sustainable development** (30 October – 1 November 2014)

**8<sup>th</sup> European Conference** on Pesticides and Related Organic Micropollutants in the Environment & **14<sup>th</sup> Symposium on Chemistry** and Fate of Modern Pesticides (18-21 September 2014)

**3<sup>rd</sup> Festival for Mental Health: "The Child and the Family in School Today"** (16-17 November 2013)

**12<sup>th</sup> Conference on Medicinal Chemistry:** "Medicinal Chemistry: *Design and Development of Pharmaceutical Products*" (12-15 April 2011)

**14<sup>th</sup> PanHellenic Symposium on Medicinal Chemistry** (23-25 April 2010)

**Lectures on** "The future of chemistry and challenges" (March-May 2009)

**Workshops** **Hygiene and Safety in Chemical Laboratories**, Department of Chemistry, University of Ioannina (30 May 2017)

**Medicinal plants from ancient times until today**, Πανεπιστήμιο Ιωαννίνων, (4 November 2017)

**Seminar and Workshop with title:** "Addressing Emergencies at School": *wound treating, addressing seizure, insect and snake bitings, foreign body aspiration and CPR with automated external defibrillator* (13 December 2014)

**Hygiene and Safety in Chemical Laboratories**, Department of Chemistry, University of Ioannina (11 May 2009)

**Seminars** **Methods of Teaching & Educating Adults in the Specialty: PE04.02 Chemists** (400 hours) Scientific Association for the Promotion of Educational Innovation (E.E.Π.E.K)

**"Teaching Methods in Second Chance Schools (SDE)** (400 hours) Scientific Association for the Promotion of Educational Innovation (EEPEK)

**Online Webinar:** ACS Reviewer LAB (July 2018)

**Chemistry Teaching Seminar**, Greek Chemists Association, (2-4 December 2016)

**Webinar: Grow Greek Tourism Online** (October 2016 – November 2016)

**"Security and hygiene in the food and beverage businesses"** (December 2013)

**Training of employers and employees in technical safety issues** (September 2013)

**Certifications** - Online Marketing Fundamentals in Tourism, from Google

- Safety and hygiene in food and beverage companies, from EFET (Hellenic Food Authority)

- Safety Technician (class C.)

**Courses** Academic courses from the online platform **edx**

- Certificate of completion and achieving a passing grade for the course: "D001x: **Medicinal Chemistry: The Molecular Basis of Drug Discovery**", Davidson College ( March 2016 – May 2016)
- Certificate of completion and achieving a passing grade for the course: "CHEM181x: **Food for Thought**", McGill University ( January 2014 – May 2014)
- Certificate of completion and achieving a passing grade for the course: "001x: **Medicinal Chemistry**", Davidson College ( January 2014 – May 2014)

- Honours and awards** Received **Separations Best Paper Award 2019** from all papers published between 1 January 2017 and 31 December 2018 for the review article “Carbon-based nanomaterials functionalized with ionic liquids for microextraction in sample preparation”
- Scholarship** from General Secretariat of Research and Technology and the Hellenic Institute of Research and Innovation for the PhD studies
- Volunteering actions** Part of the **Editorial Board** of **Chemical Chronicles** (the flagship **magazine** of **Greek Chemists Association**)
- Representative** of Greek Chemists Association at EYCN (European Young Chemists Network) of EUCHEMS (European Chemistry Society)
- Translator for the International Younger Chemists Network
- Recommendations** Constantine Stalikas: Professor at the Department of Chemistry, University of Ioannina, E-mail: [cstalika@cc.uoi.gr](mailto:cstalika@cc.uoi.gr)
- Triantafyllos Albanis: Vice Rector of University of Ioannina and Professor at the Department of Chemistry of University of Ioannina, E-mail: [talbanis@cc.uoi.gr](mailto:talbanis@cc.uoi.gr)
- Victoria Samanidou: Professor at the Department of Chemistry, Aristotle University of Thessaloniki, E-mail: [samanidu@chem.auth.gr](mailto:samanidu@chem.auth.gr)