

# Curriculum Vitae

## PERSONAL INFORMATION

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Family Name, First Name: **TRIANTIS THEODOROS**

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Google Scholar: <https://scholar.google.gr/citations?user=jCP6uRQAAAAJ&hl=en>



## EDUCATION

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- **PhD:** 2002, School of Chemical Engineering, National Technical University of Athens (NTUA), Greece. Dissertation Title: *"Study of the Photo- and Radiostoragechemiluminescence Method and Prospects for Application in Analytical Chemistry and Chemical Dosimetry"*.
- **Diploma in Chemical Engineering:** 1996, School of Chemical Engineering, NTUA, Greece. Diploma thesis title: *"Chemiluminescence of Azaaromatic Compounds. Prospects for Applications in Analytical Chemistry"*.

## CURRENT POSITION

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**2017–today: Researcher Grade B**, Institute of Nanoscience and Nanotechnology (INN), National Center for Scientific Research "DEMOKRITOS" (NCSR "DEMOKRITOS"), Greece. *Research in the fields of Advanced Oxidation Processes (AOPs) and Environmental Chemical Analysis.*

## PREVIOUS POSITIONS

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- ◆ **2014–2016: Scientific Personnel (on a permanent basis)**, INN, NCSR "DEMOKRITOS" (Greece).
- ◆ **2005–2014: Collaborating Researcher Grade D**, (2012-2014 at INN and 2005-2012 at the Institute of Physical Chemistry (IPC)), NCSR "DEMOKRITOS" (Greece).
  - **June 2008: Visiting Researcher**, University of Cincinnati & US Environmental Protection Agency (EPA), Ohio, USA. Collaboration with Prof. D. Dionysiou. TiO<sub>2</sub> Photocatalysis, HPLC-MS-MS and SPE techniques in cyanotoxins determination.
  - **March 2007: Visiting Researcher**, Department of Biochemistry and Pharmacy, Åbo Akademi University, (Finland). Collaboration with Dr. J. Meriluoto. Research in cyanotoxin analysis using SPE and HPLC-MS-MS techniques.
  - **April-June 2006: Visiting Researcher**, Radiation Laboratory, University of Notre Dame, Indiana (USA). Collaboration with Prof. P. Kamat. Laser flash photolysis studies.
- ◆ **2003–2005: Post-Doctoral Researcher**, IPC, NCSR "DEMOKRITOS". Development and applications of novel luminescence techniques in analytical and bioanalytical assays; antioxidant activity evaluation of natural products using chemiluminescence techniques.

## SUPERVISION OF DOCTORAL, MASTER'S, AND UNDERGRADUATE STUDENTS

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- **Aikaterina Paraskevopoulou**, PhD Candidate / ongoing. Dissertation Title: *"Method development for the isolation and determination of bioactive compounds from cyanobacteria"*. A PhD will be granted from the School of Chemical Engineering, National Technical University of Athens, Greece. Primary Supervisor and Member of the advisory committee.
- **Evangelia Klouvidaki**, February 2021. Diploma Title: *"Actuating, agitating and mixing reactive droplets for gas-liquid chemical reactions"*. Chemical Engineering Diploma granted by the School of Chemical Engineering, National Technical University of Athens, Greece. Primary Supervisor. *Current Position: Major of the Hellenic Army.*
- **Harrys Lamprinos**, July 2019. Thesis Title: *"Method development for the evaluation of photocatalytic materials performance using phenol degradation"*. M.Sc. granted from the School of Science, Department of Geology and Geoenvironment, National Kapodistrian University of Athens, Greece. Primary supervisor and Member of the examination committee. *Current Position: Environmental Inspector of the Plinius Independent Environmental Consultants SA, Attica Technology Park, Greece.*

● **Stefania Koursari**, September 2020. Thesis Title: “*Study of metal nanoparticles stability synthesized by using polyoxometalates as photocatalysts and stabilizers*”. M.Sc. granted from the School of Science, Department of Chemistry, National Kapodistrian University of Athens, Greece. Primary supervisor and Member of the examination committee. *Current Position: Metallurgical engineer, Elval S.A., Viochalco Group, Oinofyta, Attiki, Greece.*

**Co-supervisor:** 1 postdoc, 3 Ph.D., 5 MSc. and 4 Diploma Theses at the National Centre for Scientific Research “Demokritos”/Athens/Greece, and the School of Chemical Engineering, National Technical University of Athens (NTUA), Greece. 1 MSc. Thesis at the Offenburg University of Applied Sciences (Ms. Harshni Selvaraj)

#### **MEMBER OF ADVISORY AND EXAMINATION COMMITTEES OF D.PHIL. THESES, M.SC. THESES AND DIPLOMA THESES**

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● **Eleni Aidini**, PhD Candidate / ongoing. Dissertation Title: “*Metabolomic profiling of cyanobacteria using untargeted mass spectrometry and advanced bioinformatics tools*”, School of Agricultural Sciences, Department of Sustainable Agriculture, University of Patras, Greece. Member of the (3-member) Advisory Committee.

● **Sofia Iliakopoulou**, PhD Candidate / ongoing. Dissertation Title: “*Degradation mechanisms of cyanobacterial metabolites in water*”, School of Engineering, Department of Environmental Engineering, University of Patras, Greece. Member of the (3-member) Advisory Committee.

● **Korina Manolidi**, June 2021. Dissertation Title: “*Development of analytical methods for the determination of cyanotoxins in water, plant and animal tissues using liquid chromatography coupled to tandem mass spectrometry*”, PhD granted from the School of Science, Department of Chemistry, National Kapodistrian University of Athens, Greece. Member of the (7-member) examination committee and co-supervisor.

● **Sevasti – Kyriaki Zervou** July 2018. Dissertation Title: “*Method development for the determination of cyanotoxins and organic pollutants in water with liquid chromatography – tandem mass spectrometry*”, PhD granted from the School of Science, Department of Chemistry, National Kapodistrian University of Athens, Greece. Member of the (7-member) examination committee. *Current position: Postdoctoral at NCSR “Demokritos”.*

● **Dimitris Papageorgiou**, June 2012. Diploma thesis: “*Active and Passive Fire Protection of Buildings*”. Mechanical Engineering Diploma granted from the Department of Mechanical Engineering, Piraeus University of Applied Sciences (T.E.I. of Piraeus), Greece. Member of the (3-member) examination committee.

#### **TEACHING ACTIVITIES**

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**2019-2021:** Conducting 40% of the lectures for the course “**Thermodynamics and Heat Transfer**”. Compulsory course at the 5<sup>th</sup> Semester, Department of Industrial Design and Production Engineering, University of West Attica, Greece.

**2019-2021:** Academic Fellow, lecturing and supervising the laboratory sessions for the courses “**Chemistry I**” & “**Chemistry II**” (1<sup>st</sup> & 3<sup>rd</sup> Semester, respectively), Department of Industrial Design and Production Engineering, University of West Attica, Greece.

**2017-2019:** Lecturing (4 hours per year) at the following courses: (a) Water resources management and (b) “**Wastewater treatment**” that belongs to the curriculum of the **Master of Science in “Applied Policies and Technologies for Environmental Protection**” offered by the University of West Attica in cooperation with the European University of Cyprus.

**2000-2018:** *Laboratory Associate*, lecturing and supervising of the laboratory sessions for the following courses at different Departments of the Piraeus University of Applied Sciences (T.E.I. of Piraeus): *Department of Civil Engineering:* “**Environmental Chemistry**” (1<sup>st</sup> semester, 2009-2013), “**Quality Control and Technology of Construction Materials**” (3<sup>rd</sup> semester, 2011-2013) and “**Chemical Technology**” (1<sup>st</sup> semester, 2000-2008). *Department of Mechanical Engineering:* “**Chemical Technology**” (1<sup>st</sup> semester, 2000-2012 & 2014). *Department of Textiles Engineering:* “**General Chemistry**” (1<sup>st</sup> semester, 2015-2018), “**Physical Chemistry**” (1<sup>st</sup> semester, 2010-2013 & 2015-2018).

## **INSTITUTIONAL RESPONSIBILITIES – EVALUATION COMMITTEE’S MEMBER**

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- Coordinator of the Nanochemistry and Nanomaterials program at the Institute of Nanoscience and Nanotechnology (INN), NCSR “DEMOKRITOS”, Greece (2024-).
- Member of the evaluation/selection committee for Faculty members of the Institute of Nanoscience and Nanotechnology, NCSR DEMOKRITOS, Greece (2025-2026).
- Member of the evaluation/selection committee for Faculty members of the Department of Sustainable Agriculture, University of Patras, Greece (2024).
- Member of the evaluation/selection committee for Faculty members of the Hellenic Army Academy, Greece (2021).

## **DESCRIPTION OF RESEARCH ACTIVITIES**

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Dr. T. Triantis’ research centers on Advanced Oxidation/Reduction Processes (AOPs/ARPs) and Environmental Chemistry. In the field of AOPs/ARPs, he focuses on photocatalysis using polyoxometalates and TiO<sub>2</sub>, investigating the degradation of toxic organic pollutants and elucidating the underlying reaction mechanisms. By systematically evaluating the photocatalytic activity of novel nanostructured catalysts, his work advances water treatment technologies and supports safer, more sustainable environmental practices.

A significant part of his work examines the chemical transformation of emerging pollutants, such as cyanotoxins and taste-and-odor compounds, in the presence of reactive species (RS). These RS are produced through homogeneous AOPs. Methods include UV photolysis, UV/Cl<sub>2</sub>, sonolysis, and steady-state γ-radiolysis. Using radiolysis, Dr. Triantis studies the fundamental reactions between selected RS and target compounds. This approach provides valuable insights into primary reaction pathways and the environmental fate of hazardous substances.

In Environmental Chemistry, Dr. Triantis develops and validates advanced analytical methods to detect emerging organic pollutants in water, food, and environmental samples. These methodologies use modern sample preparation techniques, such as solid-phase extraction (SPE) and solid-phase microextraction (SPME), along with gas or liquid chromatographic separation. Detection relies on tandem mass spectrometry, including GC-MS and LC-MS/MS, which significantly improves sensitivity and selectivity.

Specifically, he has developed and validated: • Advanced analytical techniques for determining environmental pollutants (e.g., LC-MS/MS, GC-MS); • Multi-class methods for the simultaneous determination of cyanotoxins in water, biomass, plant, or fish tissue samples using SPE and LC-MS/MS; • Analytical methods for identifying odor-causing compounds (such as geosmin and 2-methylisoborneol), which serve as potential markers for cyanotoxins in water, employing SPME and GC-MS.

Building on his expertise and available infrastructure, Dr. Triantis has recently expanded his research into two areas. First, he focuses on advanced characterization of volatile and odor-active compounds in microalgae using mass spectrometry and olfactometry. Second, he works on developing analytical workflows for targeted, suspect, and untargeted screening of toxic environmental pollutants, with a focus on cyanobacterial secondary metabolites. These efforts use advanced instrumentation, including GC-MS/MS, LC-MS/MS, and high-resolution mass spectrometry (HRMS). The goal is to improve understanding of environmental contamination and support effective monitoring strategies.

## **PARTICIPATION IN RESEARCH PROJECTS**

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1. *“Study of explosive material decomposition in soil and water using the reducing reagent Munirem” (E-12807).*

The Project objectives are the following: (a) the development of suitable analytical methods for determining explosive compounds and their degradation products in soil samples, mortars, sediments, water, etc.; (b) the evaluation of the action of Munirem types for the decomposition of individual explosive compounds or mixtures of these; and (c) the determination of explosive compounds and/or their degradation products in real samples of soil, building coatings, sediments, water, etc., both before and after the treatment of the samples with Munirem or other chemical reagents. A Private-Public research program financed by Polyeco S.A. Duration: 10/2/2025 – 09/02/2028. Budget: 180 K€. **Research team member & Deputy scientific supervisor.**

2. *“Evaluation of hazardous substances released in the air during 3D-printing of orthodontic aligners” (E-12765).*

The project focused on investigating hazardous compounds that may be released into the air during the 3-D printing of orthodontic aligners. A Research project funded by the University of Zurich, Switzerland. Duration: 01/11/2024 – 31/10/2025. Budget: 9.9 K€. **Research team member & Deputy scientific supervisor.**

3. “Study of control and decontamination - remediation from explosive residues at former facilities of the company HELLENIC DEFENSE SYSTEMS S.A. (EAS) in Elefsina” (E-12727). The implementation of the Project consists of (a) the development of appropriate analytical methods for determining explosive compounds and their degradation products in soil samples, building coatings, and water; (b) their application to real samples of soil, building coatings, sediments, water (without prior treatment) etc., from the EAS facilities in Elefsina, to identify and quantify (where required) the explosive materials they contain; and (c) their application to real samples taken from contaminated soil, building coatings, sediments, water etc., from the EAS facilities in Elefsina, after appropriate chemical treatment for neutralizing the explosive materials and remediating them. A Private-Public research program financed by Polyeco S.A. Duration: 2/2/2024 – 01/02/2027. Budget: 225 K€. **Research team member & Deputy scientific supervisor.**
4. “National Research Network on Climate Change and its Impacts - CLIMPACT II, (2023NA11900001 (ΟΠΣ No. 5201588))”. CLIMPACT was an interdisciplinary consortium in which the majority of the country's academic and research institutions related to Climate Change (CC) and its associated climate risks, natural disasters, and social and economic impacts participated. The State, in cooperation with scientific institutions of the country, following the international trends imposed by the climate crisis and the living experience of recent years, has set as a major objective the study of the phenomenon and the impacts of climate change, but also the need for the development of innovative tools and relevant services for early warning. Our contribution to this project focused on developing an [interactive database](#) that contains all available information on Cyanobacterial Blooms in Greek surface waters. The project was funded by the National Development Program 2021-2025, the Ministry of Development and the General Secretariat for Research and Innovation. Duration 26/1/2023 – 31/12/2025. NCSR-D budget 165 K€ (total 3.5 M€). **Research team member.**
5. “Soil decontamination study of part of the Hellenic Defense Systems S.A. (EAS) installations in Lavrion” (E-12676). The project aimed to develop appropriate analytical methods for determining explosive compounds and their degradation products in soil samples, and to apply them to real samples from the EAS facilities. A Private-Public research program financed by Hellenic Defense Systems S.A. Duration: 10/10/2023 – 09-10-2024. Budget: 47 K€. **Research team member & Deputy scientific supervisor.**
6. “Bioactive compounds from microalgae with application in the agro-food-pharma-cosmetic industries” (E-12621). The project focuses on developing new analytical approaches for high-throughput screening and characterization of compounds with beneficial bioactivities from sustainable microalgae cultures, adding value and competitive advantages to agro-food, pharma and industrial sectors. A Private-Public research program financed by Solmeya SA. Duration 15/12/2022- 14/12/2027. Budget 60 K€. **Research team member & Deputy scientific supervisor.**
7. “Photocatalytic reactors for water and liquid waste purification with immobilized photocatalysts on micro/nanopatterned surfaces – PhoRTnano ATTP4-0321281 ” (E-12587). The project was focused on constructing improved, low-cost reactors to purify wastewater and water by degrading organic pollutants using innovative, immobilized photocatalytic materials and coatings, and evaluating their photocatalytic activity. The project was co-financed by the European Union and Greek national funds through the "Operational Program Attica 2014-2020 - Action "Research and Innovation Synergies in the Attica Region". Duration 2021-2023. Group budget 33.4 K€. **NCSR-D Project Coordinator.**
8. «Bioconversion of CO<sub>2</sub> into High-added Value Bioproducts through Sustainable Microalgae Cultivation Processes - CO<sub>2</sub>-BioProducts» (E-12257). The project was co-financed by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation (NSRF 2014-2020), under the call RESEARCH – CREATE - INNOVATE (project code: T1EΔK-02681). The basic objective of the CO<sub>2</sub>-BioProducts project was to produce high-added-value bioproducts through the bioconversion of available CO<sub>2</sub> from power generation plants using microalgae. Duration: 25/07/2018 – 24/06/2022. NCSR-D Budget: 100 K€. **NCSR-D Project Coordinator.**
9. “Evaluation of new and environmentally friendly methods for surface coating of metal alloys resistant to corrosion”, 2020-2021. The purpose of this project was to compare old and new methods and materials for their corrosion resistance. Conventional and new light Al-Li alloys coated with known and new anti-corrosion protection methods (containing or free of chromium, respectively). The project funded by the Hellenic Aerospace Industry S.A. Budget: 19.5 K€. **Project Coordinator.**

10. "National Network on Climate Change and its Impacts—Climpact", 2019-2022. The program was implemented under sub-project 3 of the project "Infrastructure of National Research Networks in the fields of Precision Medicine, Quantum Technology and Climate Change," and it was funded by the Public Investment Program of Greece, General Secretary of Research and Technology/Ministry of Development and Investments. Research topic: "Investigation of harmful algal blooms (HABs) in freshwater bodies and their correlation with climate change". Group budget: 27.5 K. **Research team member.**
11. «National Infrastructure for Nanotechnology, Advanced Materials and Micro- / Nanoelectronics - INNOVATION-EL», 2018-2021. The program was implemented under the "Reinforcement of the Research and Innovation Infrastructure" Action (MIS 5002772), funded by the Operational Program "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund). Innovation-EL is a national research infrastructure network comprised of leading Research Institutions and Universities in Greece. Its mission was to promote scientific excellence and the development of knowledge-intensive products by providing open access to top-notch research facilities for academic and industrial users. The ultimate goal of Innovation-EL was to evolve to a unique regional habitat for Research, Development and Innovation activities throughout Southeastern Europe and the Mediterranean Area. Group budget: 20 K€. **Research team member.**
12. "Development of Materials and Devices for Industrial, Health, Environmental and Cultural Applications" (MIS 5002567), 2017-2019. The project was implemented under the "Action for the Strategic Development on the Research and Technological Sector", funded by the Operational Program "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund). Participation in the project through WP1 "Development of new nanomaterials with applications in the environment and health". Research activities focused on investigating the photocatalytic activity of mixed TiO<sub>2</sub>-POM (polyoxometalate) materials and identifying reactive oxygen species generated during the process using EPR techniques. Group budget: 33.9 K€. **Research team member; Pre-submission role: co-author.**
13. "Establishing a Multidisciplinary and Effective Innovation and Entrepreneurship Hub", 2016-2017, Research Programs for Excellence GSRT/IKY/SIEMENS funded by the General Secretary for Research and Technology. Our Group participated in this project through WP 1.3 "Energy and Environmental Protection Management". The research was focused mainly on novel materials and advanced oxidation processes, investigating the photocatalytic activity of new composite photocatalysts incorporating polyoxometalates and titania (TiO<sub>2</sub>-POM). Duration: 3/2016 – 6/2017. Group funding: 30.95 K€. **Research team member; Pre-submission role: co-author.**
14. "Advanced materials and devices for energy collection and administration", Research Program "KRIPIS", 2013-2015, financed by the Greek Ministry of Education and the European Commission. Within the project framework, our research focused on the preparation of polyoxometalate-stabilized silver nanoparticles and their incorporation into high-performing bulk heterojunction organic photovoltaics. Group budget: 11,5 K€. **Research team member; Pre-submission role: co-author.**
15. "Cyanotoxins in fresh water. Advances in analysis, occurrence and treatment (CYANOWATER)", 2012-2015, General Secretariat for Research and Technology (GSRT) - Greek Ministry of Education, Action "EXCELLENCE" (ARISTEIA I). Funding: 311 K€. **Post-doctoral Researcher; Pre-submission role: co-author.**
16. "Development of Advanced Oxidation Processes (AOPs) with the use of nanomaterials and sunlight, for the removal of various organic toxic micropollutants, endocrine disrupters and cyanotoxins from natural waters and sewages", 2012-2015, The Operational Program "Education and Lifelong Learning", Action "THALIS". Group budget: 60 K€. **Researcher; Pre-submission role: co-author.**
17. CleanWater - "Water Detoxification Using Innovative vi-Nanocatalysts", 2009-2012, European Union - Seventh Framework Program, Grand agreement No 227017. Group budget: 117 K€. **Post-doctoral Researcher; Pre-submission role: co-author.**
18. "Development of an integrated system for the monitoring of cyanotoxins in surface and treated water using a combination of advanced analytical techniques", 2006-2007, G.S.R.T, Ministry of Development, PABET Project. Group Budget: 27 K€. **Researcher.**
19. "Accreditation of the Environmental Analysis Laboratory", 2005-2008, Project EPAN funded by the Greek Ministry of Development, Operational Program: "Antagonistikotita". The main objective of the project was the development of analytical methods for determining polycyclic aromatic hydrocarbons (PAHs) in drinking and surface waters, using advanced mass spectrometry instrumentation acquired under the project. In

addition, a quality control system was established, and the Laboratory was accredited for the above chemical test in accordance with ISO17025 by the Hellenic Accreditation Body (ESYD). Total funding: 311.3 M€.

**Researcher and Laboratory Quality Manager.**

20. "Sensitized chemiluminescence by using nanostructured iron oxide particles– Prospects for method application in analytical chemistry", 2006-2008, Bilateral project between Greece and the Czech Republic financed by G.S.R.T, Greek Ministry of Development. Total funding: 11,7 M€. **Collaborating Researcher.**
21. "Development of Methodology for Photocatalytic Degradation of Organic Pollutants Combining Spectroscopic & Analytical", 2005-2006, Project EPEAEK (PYTHAGORAS II) funded by the Greek Ministry of National Education and Religious Affairs. The main project objective was the development and application of experimental protocols, electron paramagnetic resonance (EPR), and fluorescence techniques for the photocatalytic degradation of organic pollutants and pesticides. Total funding: 85 M€. **Post-doctoral Researcher; Pre-submission role: co-author.**
22. "Visible light induced degradation of textile dyes using tungstate catalysts", 2003-2006, Joint Research and Technology Program with Prof. P. Kamat (Notre Dame University, Radiation Laboratory, USA) funded by G.S.R.T, Greek Ministry of Development. The basic objective of the project was to investigate the photocatalytic degradation of azodyes in the presence of polyoxometalate catalysts. Total funding: 59.8 M€. **Post-doctoral Researcher.**
23. "Advanced functional materials", 2002-2006, Research and Technology Program in the frame of Excellence in the Research Institutes funded by G.S.R.T, Greek Ministry of Development. Research on the synthesis of novel fluorescent and chemiluminescent labels and their application for the determination of selected biomolecules. Group budget: 37 M€. **Post-doctoral Researcher.**
24. "Evaluation of the antioxidant activity of fruits and olive oil extracts using chemiluminescence", 2003-2004, Greek National Scholarships Foundation Research Fellowship. Total Funding: 7.200 €. **Principal Investigator and Coordinator; Pre-submission role: main proposer.**
25. "Development of novel methods for the preparation of optically active amino acids and amino alcohols", 2004-2006, Joint Research and Technology Program with Serbia funded by G.S.R.T, Greek Ministry of Development. Total funding: 12 M€. **Post-doctoral Researcher.**
26. "Pro- and antioxidant effects in therapy - new methods for antioxidant evaluation", 2000-2002, Joint Research and Technology Program with Romania funded by G.S.R.T, Greek Ministry of Development. Total funding: 12 M€. **PhD Candidate - Researcher.**
27. "Radiochemiluminescence of azaaromatics and phthalhydrazides- prospects for analytical applications and radiation dosimeters", 1999-2001, Research Project funded by the International Atomic Energy Agency. Total funding: 12 M€. **PhD Candidate–Researcher.**

## NETWORKS

- **2024-2028:** "Effective Lake management: reducing cyanobacteria by actions in the catchment - CYANOACTION" (E-12797), COST Action CA23160 funded by COST Association – European Cooperation in Science and Technology through the Horizon Europe Framework program. The main objective of the Action is to broaden capabilities across Europe for the effective and sustainable management of water resources affected by cyanobacterial blooms, using a catchment-wide approach. CYANOACTION will protect human and environmental health by creating an interdisciplinary network of experts, living labs, stakeholders, managers and decision-makers. Total project budget: ~600K€. NCSR-D budget: ~60 K€. NCSR "DEMOKRITOS" is the Grant Holder (GH) of the Action, and **Dr. T. Triantis participates as a Management Committee (MC) member, Grant Holder Scientific Representative and Grant Holder Manager of the Action.**
- **2019-2024:** "Taste and Odor in early diagnosis of source and drinking Water Problems-WATERTOP", COST Action CA18225 funded by COST Association – European Cooperation in Science and Technology through the Horizon 2020 Framework program. The main aim of the Action was to increase capabilities and capacities in Europe for solving water T&O by creating the first European network of multidisciplinary experts, end-users, and stakeholders in the field. Total project budget: 493K€. NCSR-D budget: 64.3 K€. NCSR "DEMOKRITOS" serves as the Grant Holder (GH) of the Action, and Dr. T. Triantis participated as a **Management Committee (MC) member, Grant Holder Scientific Representative and grant manager of the Action.**

- **2012-2016:** "Cyanobacterial blooms and toxins in water resources: Occurrence, impacts and management", ESSEM COST Action ES1105 funded by COST – European Cooperation in Science and Technology. The main objective of this network was to increase, disseminate and harmonize capabilities across Europe for the risk management of cyanobacteria and cyanotoxins in water bodies, by establishing strong and synergistic links between academia, authorities, industry and citizens. NCSR "D" selected by the Action's Management Committee as Action's Grant Holder (Dr. A. Hiskia). Total funding: 400K€. **Working Group member and Action manager.**
- **2012-2016:** "Polyoxometalate Chemistry for Molecular Nanoscience" (PoCheMoN), COST Action CM1203 funded by COST – European Cooperation in Science and Technology. The main objective of PoCheMoN was to accelerate POM-based Molecular Nanoscience by creating a coherent network for world-leading education and research in POM chemistry, serving as a **Management Committee (MC) and Working Group (WG) member.**

## PUBLISHED WORK

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- **Articles in peer-reviewed journals: 67**
- **Book Chapters: 19**
- **Book Editor: 3**
- **Proceedings: 35, Abstracts: 114**  
Citations: *approximately 4093, h-index=36*  
Source: <https://scholar.google.com>. Last accessed: May 18, 2026

## PEER-REVIEWED ARTICLES AND PRE-PRINTS

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- (69) S. Iliakopoulou, **T.M. Triantis**, M. Antonopoulou, G.A. Vitale, A.K.P. Shah, D. Petras, A. Hiskia, T. Kaloudis, "Effects of UVC/H<sub>2</sub>O<sub>2</sub> on dissolved organic matter derived from a cyanobacterial bloom", ChemRxiv. 2026; <https://doi.org/10.26434/chemrxiv.15000597/v1>
- (68) S. Iliakopoulou, **T.M. Triantis**, M. Antonopoulou, C. Edwards, L.A. Lawton, G.A. Vitale, A.K.P. Shah, D. Petras, A. Hiskia, T. Kaloudis, "Elucidating Transformation Pathways of Microcystins during Advanced Oxidation/Reduction Processes for Water Treatment", ChemRxiv. 2025; <https://doi.org/10.26434/chemrxiv-2025-q4xh3>
- (67) Z. Georgiopoulou, M.E. Rizou, A. Verykios, A. Soultati, G. Chatzigiannakis, **T.M. Triantis**, A. Chroneos, K. Ladomenou, A.G. Coutsolelos, M. Vasilopoulou, "Porphyrin-nitrogen carbon dot composites for high-performance organic light-emitting diodes", *Scientific Reports*, (2026) **16**:5507.
- (66) A. Paraskevopoulou, V. Mall, **T.M. Triantis**, T. Kaloudis, A. Hiskia, D. Dimotikali, M. Steinhaus, "Deciphering Important Odorants in a Spirulina (*Arthrospira platensis*) Dietary Supplement by Aroma Extract Dilution Analysis Using Offline and Online Fractionation Approaches", *International Journal of Molecular Sciences*, **26**(14) (2025), Art. No: 6767.
- (65) Z. Georgiopoulou, A. Verykios, A. Soultati, A. Chroneos, A. Hiskia, K. Aidinis, P.N. Skandamis, A.S. Gounadaki, I. Karatasios, **T.M. Triantis**, P. Argitis, L.C. Palilis, M. Vasilopoulou, "Plasmonic enhanced OLED efficiency upon silver-polyoxometalate core-shell nanoparticle integration into the hole injection/transport layer", *Scientific Reports*, (2024) **14**:28888.
- (64) F. Kozisek, I. Chorus, E. Testai, T. Kaloudis, R. Akcaalan, M. Albay, M. Steinhaus, M. Ujevic Bosnjak, A. Dunkel, A. Hiskia, M. Manganelli, S. Scardala, D. Spiteri, **T. Triantis**, "Incorporating taste and odour problems in water safety plans", *Journal of Water and Health*, **22**(10) (2024) 1857-1873.
- (63) L. Stocker, S-K. Zervou, S.N. Papageorgiou, S. Karakousoglou, **T. Triantis**, A. Hiskia, G. Eliades, T. Eliades, "Salivary levels of eluents during Invisalign™ treatment with attachments: an in vivo investigation", *Progress in Orthodontics* **25** (2024), Art. No:22.
- (62) A. Paraskevopoulou, T. Kaloudis, A. Hiskia, M. Steinhaus, D. Dimotikali, **T.M. Triantis**, "Volatile Profiling of Spirulina Food Supplements", *Foods* **13**(8) (2024), Art. No:1257.

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## EDITORIAL ACTIVITY

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- (3) Co-Editor in the Book entitled: "[Cyanotoxins in Bloom: Ever-Increasing Occurrence and Global Distribution of Freshwater Cyanotoxins from Planktic and Benthic Cyanobacteria](#)", T. Kaloudis, A. Hiskia, T.M. Triantis, (Eds), MDPI, Basel, Switzerland, 2022.
- (2) Co-Editor of the Special Issue in Toxins Journal entitled: "[Cyanotoxins in Bloom: Ever-Increasing Occurrence and Global Distribution of Freshwater Cyanotoxins from Planktic and Benthic Cyanobacteria](#)", T. Kaloudis, A. Hiskia, T. Triantis (Eds), MDPI, Basel, Switzerland, 2021.

- (1) Co-Editor in the Book entitled: "[Water treatment for purification from cyanobacteria and cyanotoxins](#)", A. Hiskia, T. Triantis, A. Antoniou, T. Kaloudis, D. Dionysiou, (Eds), John Wiley & Sons, Ltd., 2020.

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- "Occurrence of organic pollutants in the water. Decontamination using advanced oxidation processes", *58<sup>th</sup> Summer School of NCSR-Demokritos, Athens, Greece, July 10-14, 2023.*
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- "Assessment of cyanobacteria blooms incidence in Greek lakes. The case of lake Karla", *Workshop in the framework of Industrial fellowships program – Stavros Niarchos Foundation: «From source to tap: risk assessment of organic pollutants in drinking water cycle of Athens», NCSR "DEMOKRITOS", October 10, 2018.*
- "CYANOCOST (COST Action ES1105) – Networking and impacts beyond the funding period", *COST Info Day Greece, Athens, March 27, 2018.*
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- (11) K. Agiamarnioti, N. Ferderigos, K. Papadopoulos, **T. Triantis**, "*Synthesis and fluorescent properties of novel biotinylated labels*", 1<sup>st</sup> Greek Symposium "Organic Synthesis, from Chemistry to Biology, Medicine and Materials Science", University of Athens, 4-6 November 2004, pp. 138.
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- (9) D. Dimotikali, K. Agiamarnioti, **T. Triantis**, K. Papadopoulos, "*Synthesis and chemiluminescent properties of novel biotinylated acridinium esters*", 13<sup>th</sup> International Symposium Spectroscopy in Theory and Practice, *Nova Gorica, Slovenia, 27 – 30 August 2003, pg. 82.*
- (8) D. Dimotikali, N. Farmakis, K. Agiamarnioti, **T. Triantis**, K. Papadopoulos, "*Comparative studies on the total antioxidant activity of fruit and vegetable aqueous extracts using chemiluminescence*", 13<sup>th</sup> International Symposium Spectroscopy in Theory and Practice, *Nova Gorica, Slovenia, 27 – 30 August 2003, pg. 81.*
- (7) K. Papadopoulos, **T. Triantis**, K. Tsagaraki, D. Dimotikali, N. Iftimie and A. Meghea, "*Studies on the photostoragechemiluminescence of aromatic ketones with reactive oxygen species*", 3<sup>rd</sup> International Conference of the Chemical Societies of the South-Eastern European Countries, *Bucharest, Romania, 22-25 September 2002, Vol. II, pg.77.*
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- (1) K. Papadopoulos, I. Schizas. D. Dimotikali, I. Lignos, **T. Triantis**, M. Stamatakis and J. Nikokavouras, "*Radiochemiluminescence. A new method for the chemical dosimetry of ionizing radiation*", 2<sup>nd</sup> Symposium on Chemical Research and Industry, NCSR 'DEMOKRITOS', Agia Paraskevi, Attiki, 3-5 December 1997, pg. 82.

#### **ORGANIZATION OF CONFERENCES / WORKSHOPS / MEETINGS**

- **May 2025:** Co-Chair and Organizing Committee Member of the 13<sup>th</sup> International Conference on Toxic Cyanobacteria – ICTC13, Chania, Greece, 4-8 May 2025.
- **September 2022:** Organization of a Training School on *Advanced Oxidation Processes (AOP) for treatment of water T&O, including basic sensory and GC-MS analysis*, NCSR "Demokritos", Greece, 5-9 September 2022.
- **September 2021:** Organization of an Editorial meeting in the frame of the COST Action CA 18225 «Taste and Odor in early diagnosis of source and drinking Water Problems-WATERTOP», Nafplio, Greece, 27-30 September 2021.
- **November 2014:** Co-Organizer and Trainer of a three-days training workshop "*Theoretical and practical training in SPE-LC-MS/MS analytical methods of Environmental Analysis Laboratory*", organized in NCSR

“DEMOKRITOS”, 20-21 Nov. & 1 Dec. 2014 in the frame of a constant partnership with EYDAP SA, the Athens Water Supply and Sewerage Company on the development of novel analytical methods for the determination of emerging pollutants in water, transfer of know-how and expertise and training EYDAP’s personnel.

- **May 2014:** Co-Organizer of a one-day workshop “*Cyanotoxins in Fresh Waters Advances in Analysis, Occurrence, Treatment*”, organized in NCSR “DEMOKRITOS”, May 5th 2014, in the frame of “CYANOWATER” project funded by the Greek Ministry of Education & Religious Affairs and the European Commission in the frame of research program «ΑΡΙΣΤΕΙΑ» - EXCELLENCE.
- **March 2013:** Co-Organizer of a two-day Editorial meeting for the development of the “*Handbook of Cyanobacteria Monitoring and Cyanotoxin Analysis*” edited by J. Meriluoto, L. Spoof & G. Codd and will be published by John Wiley & Sons, Ltd. at the end of 2015. This meeting was organized within the framework of the COST Action ES1105 “CYANOCOST” on 20-21 March 2013 in Athens, Greece and was attended by more than 30 authors from different European countries.

### SPECIALIZED SCIENTIFIC SERVICES

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Scientific supervisor (since 01/2026) & Quality Manager of the Environmental Analysis Laboratory, NCSR“D” accredited by ESYD ([Accreditation Certificate Number: 580-6/ESYD](#)) according to ISO 17025 for the determination of polycyclic aromatic hydrocarbons (PAHs) in water, cyanotoxins in water and biomass samples using the LC-MS/MS technique and explosives in soil using HPLC-PDA. Moreover, it is unique in Greece for determining cyanotoxins in water. Main activities: Development and application of Quality Assurance Management Systems for testing laboratories in accordance with ISO 17025; development and validation of analytical methods to meet ISO 17025, EURACHEM, SANCO, etc. guidelines.

### OTHER ACTIVITIES

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- Has refereed scientific proposals for the General Secretariat of Research and Technology, the Research Promotion Foundation of Cyprus and the Swiss National Science Foundation.
- Scientific referee for international journals (J. of Photochem. and Photobiol. A: Chem.; Catalysis Today; Chemistry European Journal; Advanced Functional Materials; Advanced Materials; ChemPhysChem; ChemSusChem; Industrial and Engineering Chemical Research; Environmental Science & Technology; Inorganica Chimica Acta; Journal of Hazardous Materials; International Journal of Photoenergy, Talanta.)
- Substitute member of the “National Water Council”.

### PROFESSIONAL ASSOCIATIONS

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Technical Chamber of Greece  
Hellenic Association of Chemical Engineers  
Hellenic Mass Spectrometry Society, HMSS

### COLLABORATIONS

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• [Dr. Martin Steinhaus](#), Leibniz Institute for Food Systems Biology at the Technical University of Munich: *Identification of key odorants in cyanobacterial biomass / access to state of the art instrumentation (automated Solvent assisted flavor evaporation-aSAFE, gas chromatography-olfactometry (GC-O), and multidimensional GC-MS)* • [Prof. L. Tartaglione](#), Department of Pharmacy, University of Naples Federico II, Italy: *Analysis of cyanometabolites using LC-MS/MS and HRMS* • [Prof. S. Gkelis](#), School of Biology, Aristotle University of Thessaloniki, Greece: *Cyanobacteria/Cyanotoxins analysis*, • [Prof. M. Antonopoulou](#), Department of Environmental Engineering, University of Patras: *Advanced Oxidation Processes*, • [Dr. E Mavrogonatou](#), Institute of Biosciences and Applications, NCSR “Demokritos: *Toxicity/bioactivity assessment of toxic organic compounds including cyanotoxins and cyanobacterial bioactive compounds*, • [Dr. M. Vasilopoulou](#), INN, NCSR “D”, Greece: *Preparation and characterization of organic photovoltaics.* • [Dr. T. Kaloudis](#), Head of the Laboratory of Organic Micropollutants, EYDAP SA, Greece: *Analysis of cyanotoxins/cyanometabolites using mass spectrometric techniques/water treatment using Advanced Oxidation processes.*