**Curriculum Vitae**

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| PERSONAL INFORMATION |

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| *Family Name, First Name*: **TRIANTIS THEODOROS**  *Address:* Patriarchou Grigoriou & Neapoleos 27, 15341 Agia Paraskevi, Attiki, GREECE  *Tel.:* +302106503646, Fax: +301206511766,  *Email:* [t.triantis@inn.demokritos.gr](mailto:t.triantis@inn.demokritos.gr)  *Professional/research networks:*  ORCID: <https://orcid.org/my-orcid?orcid=0000-0002-7899-176X>  Scopus Author ID: [6506782710](https://www.scopus.com/authid/detail.uri?authorId=6506782710)  Google Scholar: <https://scholar.google.gr/citations?user=jCP6uRQAAAAJ&hl=en> |  |

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| EDUCATION |

* **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”*.

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| CURRENT POSITION |

**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*.

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| PREVIOUS POSITIONS |

* **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. TiO2 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.

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| **SUPERVISION OF DOCTORAL, MASTER AND UNDERGRADUATE STUDENTS** |

● **Aikaterina Paraskevopoulou,** PhD Candidate / ongoing. *Dissertation Title*: *“Method development for the isolation and determination of bioactive compounds from cyanobacteria”.* 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 from 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 Geoenviromment, National Kapodistrian University of Athens, Greece. Primary supervisor and Member of the examination committee. *Current Position: Environmental Inspector of the Plinios 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. Theses, 5 MSc. Theses 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.

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

● **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 212. 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.

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| **TEACHING ACTIVITIES** |

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

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

**2017-2018:** 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”***(1st semester, 2009-2013), ***“Quality Control and Technology of Construction Materials”***(3nd semester, 2011-2013) and ***“Chemical Technology”***(1st semester, 2000-2008). *Department of Mechanical Engineering*: ***“Chemical Technology”***(1st semester, 2000-2012 & 2014). *Department of Textiles Engineering*: **“*General Chemistry”*** (1st semester, 2015-2018), ***“Physical Chemistry”*** (1st semester, 2010-2013 & 2015-2018).

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| **DESCRIPTION OF RESEARCH ACTIVITIES** |

Dr. T. Triantis current research interests and research activities include both, Advanced Oxidation Processes (AOPs) and Environmental Chemistry. In the field of ***AOPs***, his research activities include photocatalysis with polyoxometalates and TiO2, Photocatalytic degradation studies of toxic organic pollutants, elucidation of reaction mechanisms and photocatalytic activity evaluation of new nanostructured catalysts. He also works on mechanistic aspects of the chemical transformations of emerging pollutants (e.g. cyanotoxins) or water taste & odor (T&O) compounds in the presence of specific reactive species (RS) generated using various homogeneous AOPs (e.g. UV photolysis, UV/Cl2 and sonolysis) including steady-state γ-radiolysis under tuned experimental conditions. Radiolysis provides a valuable tool for studying chemical reactions between selected reactive species and target compounds, contributing to a better understanding of the primary reactions of these RS, as well as the chemistry and fate of the target compounds in the environment.

In the field of ***Environmental Chemistry****, he* focused on the development and validation of modern analytical methods for the determination of emerging organic pollutants in water, food and environmental samples. These methods are based on a combination of suitable sample treatment techniques (solid phase extraction (SPE) / solid phase microextraction (SPME)), advanced chromatographic separation techniques (e.g. Gas or liquid chromatography) as well as detection by modern techniques of tandem mass spectrometry (e.g., GC-MS or LC-MS / MS). In particular, the following methods have been developed and validated: • Development of advanced analytical techniques for the determination of environmental pollutants (e.g. LC-MS/MS, GC-MS); • Multi-class method development for the simultaneous determination of cyanotoxins in water, biomass, plant or fish tissue samples using SPE and LC/MS-MS, • Development of advanced analytical method for the determination of odor-causing compounds (such as Geosmin and 2-methylisoborneol), possible markers for the presence of cyanotoxins in water by using SPME and GC/MS.

Taking advantage of the above experience and existing infrastructure, my research plans include the development of two new activities: (a) *identification and isolation of bioactive compounds from cyanobacterial biomass*; and (b) development of analytical methods for *targeted,* *suspect and/or untargeted screening* of toxic environmental pollutants with emphasis on cyanobacterial secondary metabolites, using advanced analytical techniques (GC-MS, GC-MS / MS, LC-MS / MS, HRMS).

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| **PARTICIPATION IN RESEARCH PROJECTS** |

1. «Bioconversion of CO2 into High-added Value Bioproducts through Sustainable Microalgae Cultivation Processes - CO2-BioProducts», 2018-2022. The project 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: Τ1ΕΔΚ-02681). Basic objective of the CO2-BioProducts project is the production of high-added value bioproducts through the bioconversion of available -from power generation plants - CO2, using microalgae. Project Coordinator: Prof. C. Kiparissides, CERTH. NCSR-D Budget: 100 K€. ***NCSR-D Principal Investigator and scientific representative; Pre-submission role: NCSR main proposer.***
2. “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 in terms of their resistance to corrosion. 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***.
3. “National Network on Climate Change and its Impacts—Climpact”, 2019-2022. The program is implemented under the sub-project 3 of the project “Infrastructure of national research networks in the fields of Precision Medicine, Quantum Technology and Climate Change” and it is 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”. Project Coordinator: Prof. M. Plionis, National Observatory of Athens. Group budget: 27.5 K. ***Research team member***.
4. «National Infrastructure for Nanotechnology, Advanced Materials and Micro- / Nanoelectronics - INNOVATION-EL», 2018-2021. The program is implemented under the “Reinforcement of the Research and Innovation Infrastructure” Action (MIS 5002772), funded by the Operational Programme “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 is to promote scientific excellence and the development of knowledge intensive products providing open-access to top-notch research facilities to academic and industrial users. The ultimate goal of Innovation-el is to evolve to a unique regional habitat for Research, Development and Innovation activities throughout Southeastern Europe and the Mediterranean Area. Project Coordinator: Dr. V. Kilikoglou, INN, NCSR Demokritos. Group budget: 20 Κ€.  ***Research team member.***
5. “Development of Materials and Devices for Industrial, Health, Environmental and Cultural Applications” (MIS 5002567), 2017-2019. The project implemented under the “Action for the Strategic Development on the Research and Technological Sector”, funded by the Operational Programme "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 were focused on the investigation of the photocatalytic activity of mixed TiO2 – POM (polyoxometalate) materials as well as on the identification of reactive oxygen species generated through the process using EPR techniques. Project Coordinator: Dr. V. Kilikoglou, INN, NCSR Demokritos. Group budget: 33.9 K€. ***Research team member; Pre-submission role: co-author.***
6. “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 (TiO2-POM). Duration: 3/2016 – 6/2017. Coordinator: Dr. N. Kanellopoulos, President of NCSR-D. Group funding: 30.95 K€. ***Research team member; Pre-submission role: co-author.***
7. “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. In the project frame, our research focused on the preparation of polyoxometalate-stabilised silver nanoparticles and their incorporation in high performing bulk heterojunction organic photovoltaics. Project Coordinator: Dr. D. Niarchos, INN, NCSR Demokritos. Group budget: 11,5 K€. ***Research team member***; ***Pre-submission role: co-author.***
8. "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). Coordinator: Dr. A. Hiskia. Funding: 311 Κ€. ***Post-doctoral Researcher; Pre-submission role: co-author.***
9. “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 Programme "Education and Lifelong Learning", Action “THALIS”. Project Coordinator: Prof. T. Albanis. Group budget: 60 Κ€. ***Researcher; Pre-submission role: co-author.***
10. CleanWater - "Water Detoxification Using Innovative vi-Nanocatalysts", 2009-2012, European Union - Seventh Framework Programme, Grand agreement No 227017. Project Coordinator: Dr. P. Falaras. Group budget: 117 K€. ***Post-doctoral Researcher; Pre-submission role: co-author.***
11. *"*Development of an integrated system for the monitoring of cyanotoxins in surface and treated water using combination of advanced analytical techniques", 2006-2007, G.S.R.T, Ministry of Development, PABET Project. Project Coordinator: L. Kousouris, EYDAP SA. Group Budget: 27 K€. ***Researcher.***
12. "Accreditation of the Environmental Analysis Laboratory",2005-2008, Project EPAN funded by Greek Ministry of Development, Operational Programme: "Antagonistikotita". The main objective of the project was the development of analytical methods for the determination of polycyclic aromatic hydrocarbons (PAHs) in drinking and surface waters, based on advanced instrumentation of mass spectrometry acquired in the frame of the project. In addition, a quality control system was established and the Laboratory was accredited for the above chemical test according to ISO17025 by the Hellenic Accreditation Body (ESYD). Project Coordinator: Dr. A. Hiskia. Total funding: 311.3 M€. ***Researcher and Laboratory Quality Manager*.**
13. "Sensitized chemiluminescence by using nanostructured iron oxides particles– Prospects for method application in analytical chemistry",2006-2008***,*** Bilateral project between Greece and Czech Republic financed by G.S.R.T, Greek Ministry of Development. Project Coordinator: Dr. K. Papadopoulos. Total funding: 11,7 M€. ***Collaborating Researcher.***
14. "Develomment of Methodology for Photocatlytic Degradation of Organic Pollutans Combining Spectoscopic & Alaytical",2005-2006, Project EPEAEK (PYTHAGORAS II) funded by Greek Ministry of National Education and Religious Affairs. The main project objective was the development and application of experimental protocols and electron paramagnetic resonance (EPR) and fluorescence techniques for the photocatalytic degradation of organic pollutants and pesticides. Project Coordinator: Associate. Prof. I. Deligiannakis, Department of Environmental & Natural Resources Management, University of Ionnina. Total funding: 85 M€.***Post-doctoral Researcher; Pre-submission role: co-author.***
15. "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). Basic objective of the project was the investigation of azodyes photocatalytic degradation in the presence of polyoxometalates catalysts. Project Coordinator: Dr. E. Papaconstantinou. Total funding: 59.8 M€. ***Post-doctoral Researcher*.**
16. "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. Project Coordinators: Dr. K. Palaios, Dr. K. Papadopoulos. Group budget: 37 M€.  ***Post-doctoral Researcher*.**
17. "Evaluation of the antioxidant activity of fruits and olive oil extracts using chemiluminescence", 2003-2004, Greek National Scholarships Foundation Research Fellowship. Host Laboratory: Dr. K. Papadopoulos. Total Funding: 7.200 €. ***Principal Investigator and Coordinator; Pre-submission role: main proposer*.**
18. "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. Project Coordinator: Dr. K. Papadopoulos. Total funding: 12 M€. ***Post-doctoral Researcher*.**
19. "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. Project Coordinator: Dr. K. Papadopoulos. Total funding: 12 M€. ***PhD Candidate - Researcher.***
20. "Radiochemiluminescence of azaaromatics and phthalhydrazides- prospects for analytical applications and radiation dosemeters",1999-2001, Research Project funded by the International Atomic Energy Agency. Project Coordinator: Dr. K. Papadopoulos. Total funding: 12 M€. ***PhD Candidate–Researcher.***

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| **NETWORKS** |

* **2019-2023:** "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 is to increase capabilities and capacities in Europe for solving water T&O, by creating the first European network of multi-disciplinary experts, end-users and stakeholders in the field. Total estimated funding: 400K€. NCSR “DEMOKRITOS” serves as the Grant Holder (GH) of the Action and ***Dr. T. Triantis participates as 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 is to accelerate POM-based Molecular Nanoscience by creating a coherent network for world-leading education and research in POM chemistry. ***Management Committee(MC) and Working Group (WG) member.***

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| **PUBLISHED WORK** Publications: 75 (Chemical Engineering Journal Advances, Toxins, Limnology and Oceanography, Science of The Total Environment, Scientific Reports, Scientific Data, Toxins, Electroanalysis, Current Topics in Electrochemistry, Applied Catalysis B-Environ., Journal of Photochemistry and Photobiology, Catalysis Today, Chemical Engineering Journal , Chemosphere, Analytica Chimica Acta, European Journal of Inorganic Chemistry, Toxicon, Journal of Hazardous Materials, Water Research, Separation and Purification Technology, Industrial & Engineering Chemistry Research, Marine and Freshwater Research, Advances in Oceanography and Limnology, Journal of Biochemical Technology, Acta Chimica Slovenica, Applied Clay Science, Journal of Advanced Oxidation Technologies, Chemistry and Physics of Lipids, and 18 book chapters)Proceedings: 29, Abstracts: 94 Citations: *approximately* ***2560****, h-index=****28***  Source: [https://scholar.google.com](https://scholar.google.gr/citations?hl=en&user=jCP6uRQAAAAJ&view_op=list_works&sortby=pubdate). Last accessed: December 16, 2021  **REFEREED JOURNALS PUBLICATIONS** |

(57) C. Christophoridis, C.J. Pestana, T. Kaloudis, L.A. Lawton, **T.M. Triantis,** A. Hiskia, *“*Radiolytic degradation of 2-methylisoborneol and geosmin in water: Reactive radical species and transformation pathways*”*, [Chemical Engineering Journal Advances, 8 (2021) 100196.](https://doi.org/10.1016/j.ceja.2021.100196)

(56) D. Donis, , E. Mantzouki, …**T. Triantis,** …., B.W., Ibelings, *“*Stratification strength and light climate explain variation in chlorophyll a at the continental scale in a European multilake survey in a heatwave summer*”,* [Limnology and Oceanography, 66 (2021) 4314–4333.](https://doi.org/10.1002/lno.11963)

(55) N.A. Hammoud, S.-K. Zervou, Kaloudis, T., C. Christophoridis, A. Paraskevopoulou, **T.M. Triantis**, K. Slim, J. Szpunar, A. Fadel, R. Lobinski, A. Hiskia, *“*Investigation of the Occurrence of Cyanotoxins in Lake Karaoun (Lebanon) by Mass Spectrometry, Bioassays and Molecular Methods*”,* [Toxins 13(10) (2021) 716.](https://doi.org/10.3390/toxins13100716)

(54) S.-K. Zervou, K. Moschandreou, A. Paraskevopoulou, C. Christophoridis, E. Grigoriadou, T. Kaloudis, **T.M. Triantis**, V. Tsiaoussi, A. Hiskia, *“Cyanobacterial toxins and peptides in Lake Vegoritis, Greece”*, [Toxins, 13 (6) (2021) 394.](https://doi.org/10.3390/toxins13100716)

(53) Y. Vergou, M. Touraki, A. Paraskevopoulou, **T.M. Triantis**, A. Hiskia, S. Gkelis, *“β-Ν-Methylamino-L-alanine interferes with nitrogen assimilation in the cyanobacterium, non-BMAA producer, Synechococcus sp. TAU-MAC 0499”*, [Toxicon, 185 (2020) 147-155.](https://doi.org/10.1016/j.toxicon.2020.07.013)

(52) M. Antonopoulou, N. Ioannidis, T. Kaloudis, **T.M. Triantis**, A. Hiskia, *“Kinetic and mechanistic investigation of water taste and odor compound 2-isopropyl-3-methoxy pyrazine degradation using UV-A/chlorine process”*, [Science of The Total Environment, 732 (2020), Art. No:138404](https://doi.org/10.1016/j.scitotenv.2020.138404.)

(51) S. Gkelis, M. Panou, D. Konstantinou, P. Apostolidis, A. Kasampali, S. Papadimitriou, D. Kati, G. M. Di Lorenzo, S. Ioakeim, S.K. Zervou, C. Christophoridis, **T.M. Triantis**, T. Kaloudis, A. Hiskia, M. Arsenakis, *“Diversity, Cyanotoxin Production, and Bioactivities of Cyanobacteria Isolated from Freshwatersof Greece“,*  [Toxins, 11(8) (2019) 436.](https://doi.org/10.3390/toxins11080436)

(50) G. Patermarakis, T.M. Triantis, “Transformation of porous nanostructure and self-ordering of anodic alumina films during potentiostatic anodising of aluminium”, [Current Topics in Electrochemistry, 21 (2019) 21-39.](http://www.researchtrends.net/tia/abstract.asp?in=0&vn=21&tid=19&aid=6401&pub=2019&type=3)

(49) K. Manolidi, **T.M. Triantis**, T. Kaloudis, A. Hiskia, *“Neurotoxin BMAA and its isomeric amino acids in cyanobacteria and cyanobacteria-based food supplements“,* [Journal of Hazardous Materials, 365 (2018)](https://doi.org/10.1016/j.jhazmat.2018.10.084) 346-365 .

(48) C. Christophoridis, S-K. Zervou, K. Manolidi, M. Katsiapi, M. Moustaka-Gouni, T. Kaloudis, **T.M. Triantis**, A. Hiskia, *“Occurrence and diversity of cyanotoxins in Greek lakes“,* [Scientific Reports 8, Article number: 17877 (2018).](https://doi.org/10.1038/s41598-018-35428-x)

(47) E. Mantzouki, …**T. Triantis**, …., B.W., Ibelings, *“*A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins*“,* [Scientific Data, (2018) 5:180226.](https://dx.doi.org/10.1038/sdata.2018.226)

(46) E. Mantzouki, M. Lürling, J. Fastner, …**T. Triantis,** …., B.W., Ibelings, *“Temperature effects explain continental scale distribution of cyanobacterial toxins”,* [Toxins, 10 (4), (2018) art. no. 156.](https://doi.org/10.3390/toxins10040156)

(45) J. Meriluoto, L. Blaha, G. Bojadzija, M. Bormans, L. Brient, G.A Codd, D. Drobac, E.J. Faassen, J. Fastner, A. Hiskia, B.W. Ibelings, T. Kaloudis, M. Kokocinski, R. Kurmayer, D. Pantelić, A. Quesada, N. Salmaso, N. Tokodi, **T.M. Triantis**, P.M. Visser, Z. Svirčev*, "Toxic cyanobacteria and cyanotoxins in European waters–recent progress achieved through the CYANOCOST Action and challenges for further research"*, [Advances in Oceanography and Limnology, 8(1) (2017) 161-178.](https://dx.doi.org/10.4081/aiol.2017.6429)

(44) S. Gkelis, M. Panou, I. Chronis, S.K. Zervou, C. Christophoridis, K. Manolidi, C. Ntislidou, **T.M. Triantis**, T. Kaloudis, A. Hiskia, and I. Kagalou, *“Monitoring a newly re-born patient: water quality and cyanotoxin occurrence in a reconstructed shallow Mediterranean lake“*, [Advances in Oceanography and Limnology, 8(1), (2017) 33-51.](https://dx.doi.org/10.4081/aiol.2017.6350)

(43) S-K. Zervou, C. Christophoridis, T. Kaloudis, **T.M. Triantis**, A. Hiskia, *“New SPE-LC-MS/MS method for simultaneous determination of multi-class cyanobacterial and algal toxins”*, [Journal of Hazardous Materials, 323 (2017) 56–66.](http://dx.doi.org/10.1016/j.jhazmat.2016.07.020)

(42) M.K. Arfanis, P. Adamou, N.G. Moustakas, **T.M.Triantis**, A.G. Kontos, P. Falaras, *“Photocatalytic degradation of salicylic acid and caffeine emerging contaminants using titania nanotubes”*, [Chemical Engineering Journal, 310 (2017) 525-536.](http://dx.doi.org/10.1016/j.cej.2016.06.098)

(41) M. Moustaka-Gouni, A. Hiskia, S. Genitsaris, M. Katsiapi, K. Manolidi, S.-K. Zervou, C. Christophoridis, **T. Triantis**, T. Kaloudis, S. Orfanidis, *“First report of Aphanizomenon favaloroi occurrence in Europe associated with saxitoxins and a massive fish kill in Lake Vistonis, Greece”*, [Marine and Freshwater Research, 68(4) (2016) 793-800.](http://www.publish.csiro.au/view/journals/dsp_journals_pip_abstract_scholar1.cfm?nid=126&pip=MF16029)

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| **SUMMARY OF JOURNAL PUBLICATIONS** |

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| --- | --- | --- | --- | --- |
| **A/A** | **Journal Title** | **Number of Articles per journal** | **IMPACT FACTOR (2020)** | **IMPACT FACTOR**  **(5-year)** |
| 1 | *Applied Catalysis B: Environmental* | 2 | **16.683** | 14.443 |
| 2 | *Water Research* | 2 | **9.130** | 9.639 |
| 3 | *Chemical Engineering Journal* | 4 | **10.652** | 9.430 |
| 4 | *Journal of Hazardous Materials* | 4 | **9.038** | 8.512 |
| 5 | *Science of The Total Environment* | 1 | **6.551** | 6.419 |
| 6 | *Scientific Data* | 1 | **5.541** | 7.670 |
| 7 | *Analytica Chimica Acta* | 7 | **5.977** | 5.577 |
| 8 | *Catalysis Today* | 3 | **5.825** | 5.266 |
| 9 | *Chemosphere* | 1 | **5.778** | 5.705 |
| 10 | *Scientific Reports* | 1 | **3.998** | 4.576 |
| 11 | *Separation and Purification Technology* | 1 | **5.774** | 5.257 |
| 12 | *Applied Clay Science* | 1 | **4.605** | 4.549 |
| 13 | *Limnology and Oceanography* | 1 | **3.778** | 4.278 |
| 14 | *Toxins* | 4 | **3.531** | 3.832 |
| 15 | *Industrial & Engineering Chemistry Research* | 1 | **3.573** | 3.684 |
| 16 | *Journal of Photochemistry and Photobiology A: Chemistry* | 8 | **3.306** | 3.056 |
| 17 | *Electroanalysis* | 1 | **2.544** | 2.623 |
| 18 | *European Journal of Inorganic Chemistry* | 1 | **2.529** | 2.284 |
| 19 | *Toxicon* | 1 | **2.201** | 2.232 |
| 20 | *Marine and Freshwater Research* | 1 | **1.488** | 1.773 |
| 21 | *Acta Chimica Slovenica* | 1 | **1.263** | 1.123 |
| 22 | *Journal of Biochemical Technology* | 1 | **1.327\*** |  |
| 23 | *Journal of Advanced Oxidation Technologies* | 1 | **0.901\*** |  |
| 24 | *Chemical Engineering Journal Advances* | 1 | **---** |  |
| 25 | *Advances in Oceanography and Limnology* | 2 | **---** |  |
| 26 | *Current Topics in Electrochemistry* | 1 | **---** |  |
| 27 | *Chemistry and Physics of Lipids* | 1 (abstract) | **2.094** | 2.791 |
| 28 | *Quaderno GRIFA* | 1 | **---** |  |
| 29 | *Chimica Chronika, New Series* | 1 (abstract) | **---** |  |
|  | *\* refers to 2018* |  |  |  |
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| **EDITORIAL ACTIVITY** |

(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",**](https://www.mdpi.com/journal/toxins/special_issues/Cyanotoxins_Bloom) 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**](https://www.doi.org/10.1002/9781118928677)**”**, A. Hiskia, T. Triantis, A. Antoniou, T. Kaloudis, D. Dionysiou, (Eds), John Wiley & Sons, Ltd., 2020.

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| **ORGANIZATION OF CONFERENCES / WORKSHOPS / MEETINGS** |

* **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» - EXECELLENCE.
* **March 2013:** Co-Organizer of a two-days 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 organized in the frame of the COST Action ES1105 “CYANOCOST”, 20-21 March 2013, Athens, Greece and participated more than 30 authors from different European countries.

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| **SPECIALIZED SCIENTIFIC SERVICES** |

Quality Manager of the Environmental Analysis Laboratory, NCSR”D” accredited by ESYD (Accreditation Certificate Number: 580-4/ESYD) according to ISO 17025 for the determination of polycyclic aromatic hydrocarbons (PAHs) in water and cyanotoxins in water and biomass samples using LC-MS/MS technique. Moreover, it is unique in Greece for the determination of Cyanotoxins in water. Main activities: Development and application of Quality Assurance Management Systems for testing laboratories according to ISO 17025; Analytical methods development and validation, to meet ISO 17025, EURACHEM, SANCO etc guidelines.

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| **OTHER ACTIVITIES** |

* Has refereed scientific proposals for General Secretariat of Research and Technology, the Research Promotion Foundation of Cyprus and 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”.

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| **PROFESSIONAL ASSOCIATIONS** |

Technical Chamber of Greece

Hellenic Association of Chemical Engineers

Hellenic Mass Spectrometry Society, HMSS

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| **COLLABORATIONS** |

*●* Prof. L. Tartaglione, Department of Pharmacy, University of Naples Federico II, Italy: *Analysis of cyanometabolites using LC-MS/MS and HRMS* *●* Prof. D. Dionysiou, University of Cincinnati, Cincinnati, Ohio, USA: *Advanced Oxidation processes / Remediation of Harmful Algal Blooms/cyanotoxins, ●* Prof. S. Gkelis, School of Biology, Aristotle University of Thessaloniki, Greece: *Cyanobacteria/Cyanotoxins analysis, ●* Assist. 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. P. Falaras, INN, NCSR “Demokritos: *Photocatalysis / Photocatalysts structural characterization ●* Dr. P. Argitis, 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.*