

CURRICULUM VITAE

Name : **Nikolaos S. Thomaidis**
Date of Birth : 19/9/1968
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Education

1986 – 1990 : BSc, Chemistry, Department of Chemistry, University of Athens.
1991 – 1996 : PhD, Analytical Chemistry, Laboratory of Analytical
Chemistry, Department of Chemistry, University of Athens.
1998 : Post-doctoral researcher, MiTAC, Dep. Of Chemistry,
Universitaire Instelling Antwerpen (U.I.A), Belgium (Prof. F. C. Adams).
1998 – 1999 : Post-doctoral researcher, Analytical and Food Chemistry,
Chemistry Laboratory, Agricultural University of Athens.

Teaching Experience

2013 - 2017 : Associate Professor, Dept. of Chemistry, UoA, teaching:
Undergraduate Students:

- Instrumental Analysis I, 3rd semester
- Instrumental Analysis II, 4th semester
- Advanced Analytical Chemistry (Hyphenated Techniques and Mass Spectrometry), 7th semester
- Quality Assurance and Accreditation, 8th semester

Postgraduate Students:

- Advanced Spectrometric Techniques (AAS, ICP-OES, MS, ICP-MS)
- Separation Techniques (LC, LC-MS, LC-MS/MS, LC-HRMS)
- Quality Management Systems – ISO/IEC 17025
- Quality control of Food (Food Safety, Chemical Hazards)
- Quality control of the Environment (Environmental Research, metals, speciation, environmetrics, emerging pollutants, risk assessment)
- Quality control of Materials (inorganic materials)
- Supervisor of 7 PhD researchers (8 completed) and 8 MSc students (42 completed)

2008 – 2013 : Assistant Professor, Dept. of Chemistry, University of Athens
2003 – 2008 : Lecturer, Dept. of Chemistry, University of Athens
1999 – 2003 : Adjunct Professor, Dep. of Environmental Studies,
University of the Aegean, teaching:

- General Chemistry, 1st semester
- Environmental Chemistry, 4th semester

Working Experience

2013 - 2017 : Associate Professor of Analytical Chemistry

2008 – 2013	: Assistant Professor of Analytical Chemistry
2003 – 2008	: Lecturer of Analytical Chemistry, Dept. of Chemistry, UoA
2001 – 2003	: General Chemical State Laboratory, B' Division. GLP and EN ISO/IEC 17025 Assessor.
2000 – 2003	: Trainer of Assessors, Expert and Member of the 1 st Technical Committee of Hellenic Accreditation Body (ESYD) (Food, Environment, Pharmaceuticals and Cosmetics).
1999 – 2001	: Residue Analysis Laboratory in Foodstuff of Animal Origin (National Reference Laboratory), Ministry of Agriculture.
1998 – 2003	: Adjunct professor-Research Associate of Dep. of Environmental Studies, University of the Aegean.
1999	: Research Associate of MiTAC, Dep. Of Chemistry, Universitaire Instelling Antwerpen (U.I.A), Belgium (Prof. F. C. Adams).
1996	: Research Associate of the Dep. Of Chemistry, University of Athens.

Research projects:

As project leader and principal partner:

- **UNDP, EMBLAS II:** Analysis of WFD and screening of Black Sea Specific Pollutants (UNDP, 2016-12-ITB, 2016)
- **NORMAN,** Development of models for the prediction of **retention time index** in LC-MS (NORMAN Association, 2016)
- **NORMAN, NORMANews Trial: Retrospective Screening** (NORMAN Association, 2016)
- **COST Action ES1307** Sewage biomarker analysis for community health assessment (MC) (EU COST, 2014 – 2017)
- **Aristeia – Excellence:** TRANSFORMATION PRODUCTS OF EMERGING POLLUTANTS IN THE AQUATIC ENVIRONMENT – **TREMOPOL** (<http://tremopol.chem.uoa.gr/>) (ESF-Ministry of Education, 2012 – 2015).
- **RESEARCH & DEVELOPMENT of NEW ENTERPRISES:** Identification of chemical and microbiological indices for seafood freshness and their implementation for the establishment of freshly-frozen claim (ESF-GSRT, 2012-2015).
- **Thalis:** INVESTIGATION OF ORGANIC MICRO POLLUTANTS' FATE IN WASTEWATER TREATMENT AND STUDY OF THEIR BEHAVIOR DURING WASTEWATER DISPOSAL TO THE AQUATIC ENVIRONMENT – **WATERMICROPOL** (<http://www2.env.aegean.gr/WaterMicropol/>), University of the Aegean (ESF-Ministry of Education, 2012 – 2015).
- **Innovation Coupons:** Multi-analyte determination of **pesticides** in vegetables by GC-MS (ESF-GSRT, 2011 - 2012).
- **Heraclitus II:** Development of novel methods for the determination of **veterinary drug residues** in food of animal origin by liquid chromatography – mass spectrometry (ESF-Ministry of Education, 2010 - 2014).
- Occurrence of **emerging pollutants** in wastewater of STP of Athens - Evaluation of risk to the aquatic environment from reuse of treated wastewater (Water Supply and Sewerage Company of Athens, EYDAP SA, 2010 - 2011).
- Development of new methods for the determination of sulfonamides in foodstuff of animal origin by liquid chromatography - mass spectrometry (University of Athens Research Fund, 2009 – 2010).
- Evaluation of the dietary exposure to heavy metals of Greek population from the consumption of contaminated food from industrial areas - Relation to contaminated irrigation water (National Food Control Agency, EFET, 2009).
- **AKMON:** Development of the laboratory infrastructure for providing advanced services of food control and environmental management to enterprises (European Social Funds, ESF - General Secretariat of Research and Technology, GSRT, 2006 – 2008).

- **EPAN: Accreditation** of the laboratory of Analytical Chemistry, Dep. of Chemistry (Ministry of Development, 2005 - 2010)
- **PENED:** Total Antioxidant capacity, free radicals and metals in olive oil, Indices of biological value, stability and geographical origin. P.I. Prof. C.A. Georgiou, Agricultural University of Athens (European Social Funds - General Secretariat of Research and Technology, GSRT, 2006 – 2008)
- Development of new methods for the determination of Bisphenol A in foods (University of Athens Research Fund, 2006 – 2008).
- Method development and validation for the determination of pollutants in solid and liquid wastes of Public Power Corporation (Testing Research and Standards Center, Greek Public Power Corporation, 2005 – 2008)
- **Pythagoras II:** Investigation of toxicity and biodegradation in the marine environment of organic compounds used as booster biocides in antifouling paints (ESF - Ministry of Education, 2005 – 2007)
- Quality control of aquaculture, fisheries products, frozen seafood and milk and baby foods (Various companies of Food Industry, 2004 – now)
- Method development for the determination of metabolites of nitrofurantoin antibiotics in food of animal origin (University of Athens Research Fund, 2004-2005).
- **FP5 OT-SAFE:** “Sources, consumer exposure and risks of organotin contamination in seafood”, P.I. Dr. J.W. Wegener, VU Amsterdam (5th EU RTD Framework Program - Contract number QLK1-CT-2001-01437, 2001-2004).
- Quality of the drinking and ground water of Gera, Lesbos (Municipality of Gera, 1999)
- Metals, arsenic and VOCs of the drinking and ground water of Mytilene, Lesbos (Municipality of Mytilene, 1999)
- Development of automated methods for the quality control of olive oil (Greek State Scholarships Foundation, 1999)

As Research Associate:

- Pythagoras I: Investigation of synthetic organic compounds (nonylphenols, triclosan, metabolites) occurrence in wastewater treatment systems and estimation of their toxicity and biodegradation in activated sludge systems (ESF - Ministry of Education, 2004-2006).
- Pythagoras I: Development and Validation of Chromatographic Methods for the quality control of pharmaceuticals, food and the environment (ESF - Ministry of Education; 2004-2006).
- Monitoring program of the occurrence of micropollutants in the surface waters of Greece, catalogue II, substances candidate for catalogue I, 76/464 EEC Directive (Ministry of the Environment and Public Works, 1998-1999)
- Monitoring program of the occurrence of micropollutants in the surface waters of Northern Greece, catalogue I, 76/464 EEC Directive (Ministry of the Environment and Public Works, 1998)
- Determination of heavy metals in the atmospheric particulate matter (TSP και PM₁₀) of Neorio Siros, Greece, (Ministry of the Environment and Public Works, 1996-1997)
- Network of monitoring the concentrations of VOCs and other non-conventional pollutants (metals, PAHs, acidic compounds) in the atmosphere of Greece, (Ministry of the Environment and Public Works, 1995-1996)
- Quality of the drinking and ground water of Olympiada, Chalkidiki, (Ministry of the Environment and Public Works, 1995)
- Measurements and Testing Programme of BCR: Determination of Polycyclic Aromatic Hydrocarbons in sewage sludge samples (EEC, 1989-1991)

Research Interests

- Hyphenated Techniques based on Mass Spectrometry Detection

- High Resolution Mass Spectrometric target screening, suspect screening and non-target screening workflows for the identification of *knowns and unknowns* in environmental, clinical and food samples
- Analytical chemistry of *emerging organic contaminants* (endocrine disruptors, veterinary drug residues, pharmaceuticals, illicit drugs, new designer drugs, PCPs, industrial chemicals (PFCs, BTRs, BTHs, sweeteners, surfactants and many more), pesticides, antifouling booster biocides, mycotoxins and biotoxins) in environmental, food and biological samples. Sample preparation techniques for chromatographic analysis – Preconcentration and derivatization techniques.
- QSPR modelling and chemometrics: Unsupervised and supervised multivariate pattern recognition chemometric techniques, Support Vector Machines (SVM) and artificial neural networks (ANNs) applied on large datasets (chromatographic, environmental and food analyses) for prediction, modeling, optimization and classification
- Occurrence, fate and ecotoxicology of emerging contaminants and their transformation products in engineered (ozonation, chlorination, AOPs) and natural environment (biotic and abiotic transformations)
- Biomonitoring of emerging contaminants
- Speciation of elements in the environment and food
- Estimation of dietary exposure in residues – Environmental Risk Assessment

Editorial Activities

*Member of the Advisory Board of **Analytical Methods***

*Member of the Editorial Board (and Guest Editor for special issues) of **Global NEST Journal***

*Member of the Editorial Board of **Pollution** journal*

*Associate Editor of **Analytical Letters** for the AACD-2010 (April 2012) and AACD-2014 (April 2016) special issues (Editorial papers: E2 and E3).*

*Managing Guest Editor of a special issue of **Journal of Hazardous Materials** (Jan 2017) on “Emerging Contaminants”*

*Guest Editor of a special issue of **Journal of Hazardous Materials** (Nov 2012) on “Occurrence of Emerging Contaminants in Wastewater Treatment Systems” (containing selected papers from 12th International Conference on Environmental Science and Technology)*

*Guest Editor of a special issue of **Chemosphere** (Jan 2015) on “Emerging Pollutants” (containing selected papers from 13th International Conference on Environmental Science and Technology)*

*Guest Editor of a special issue of **Analytica Chimica Acta** (2004, Vol. 505(1)) for 3rd Aegean Analytical Chemistry Days (Editorial paper: E1).*

*Review Editor of **Frontiers in Environmental Health**, a section of **Frontiers in Environmental Science and Public Health** (2014-).*

*Reviewer for **65 international journals**: Analytical Chemistry, Trends in Analytical Chemistry, Analyst, Analytical Methods, Analytica Chimica Acta, Analytical and Bioanalytical Chemistry, Journal of Chromatography A, Journal of Chromatography B, Journal of Analytical Atomic Spectrometry, Talanta, Analytical Letters, Microchimica Acta, Journal of American Society of Mass Spectrometry, Rapid Communications in Mass Spectrometry, Journal of Separation Science, Biomedical Chromatography, Spectrochimica Acta Part B, International Journal of Environmental Analytical Chemistry, Current Analytical Chemistry, Journal of AOAC International, Journal of Chromatographic Sciences, Journal of Pharmaceutical and Biomedical Analysis, Journal of Agricultural and Food Chemistry, Food Analytical Methods, Food Chemistry, Food and Chemical Toxicology, The Canadian Journal of Analytical Sciences and Spectroscopy, Environmental Science & Technology (ES&T), Environmental Science & Technology Letter (ES&T Letters), Chemosphere, Water Research, Journal of Hazardous Materials, Journal of*

Environmental Monitoring/Environmental Science: Processes & Impacts, Science of the Total Environment, Environmental Science and Pollution Research (ESPR), Chemical Engineering Journal, Environmental Monitoring and Assessment, Global NEST Journal, Toxicological & Environmental Chemistry, Journal of Hydrology, International Journal of Environment and Waste Management, International Journal of Environmental Science and Technology, Desalination, Desalination and Water Treatment, Journal of Water and Health, Journal of Water Supply Research and Technology – AQUA, Environmental Technology, Journal of Environmental Management, Fuel, CLEAN - Soil, Air, Water, European Polymer Journal, Chemical Papers, Central European Journal Chemistry, Australian Journal of Chemistry, Applied Organometallic Chemistry, Hellenic Plant Protection Journal, Chinese Journal of Chemistry, Molecular Sciences and Engineering, Human and Ecological Risk Assessment: An International Journal, Environmental Research, Environmental Toxicology and Pharmacology, PLOS One, Environmental Science & Technology Letters, RSC Advances, Water (MDPI), International Journal of Mass Spectrometry

External reviewer of projects' evaluation (2004 –) for:

- 2004 Research Council of Hong Kong Baptist University
- 2010 Natural Environment Research Council, (NERC) UK
- 2012, 2015 Italian Ministry for Education University and Research (MIUR)
- 2012 Portuguese Foundation for Science and Technology (FCT)
- 2013 Estonian Research Council (ETAg)
- 2013 Foundation for Polish Science (FNP).
- 2014 - Research Grants Council (RGC) of Hong Kong
- 2015, 2016 Research Foundation Flanders (FWO)
- 2015, 2016 COST (EU)
- 2016 - European Science Foundation (ESF) [member of the panel for Environmental Sciences and Member of the College of Review Panel Members]
- 2006 - GSRT and IKY reviewer

Scientific Associations

1. Member (AMRSC) of the Royal Society of Chemistry (London). Member of the Analytical Division/RSC
2. Member of the American Chemical Society (ACS). Member of the Analytical and Environmental Chemistry Divisions
3. Member of the American Society of Mass Spectrometry (ASMS)
4. Member and focal point for Greece of the Network of Reference Laboratories for the Monitoring of Emerging Pollutants (NORMAN)
5. Member of the Association of Greek Chemists.
6. Member of the Global Network of Environmental Science and Technology (G-NEST).
7. Member of the Hellenic Mass Spectrometry Society (HMSS).

Scientific committees and activities:

- Chairman and co-chairman of the 9th and 7th Aegean Analytical Chemistry Days (AACD2014, AACD 2010, Lesvos, 2010 - www.chem.uoa.gr/aacd2010) and the post-conference Symposium “Metal Speciation in the Environment” during CEST 1999 (Samos). Session Convener for “Emerging Pollutants” in 12th, 13th and 14th CEST (Rhodes 2011; Athens 2013; Rhodes 2015). Member of the scientific and organizing committees of various conferences of Environmental Science and Technology, Analytical Chemistry and Metrology
- Member of the Scientific committee of Quality Consult, Italy (quality assurance of environmental studies, proficiency testing and interlaboratory comparisons)
- Member of the Scientific committee of HellasLab (national branch of EuroLab) (educational activities on measurement quality and metrology)

- Assessor of Hellenic Accreditation Body (ESYD) and trainer of assessors
- Participation in various proficiency tests and certification rounds

Scholarships - Awards

- Scholarship for undergraduate studies in Chemistry, Vostanio Foundation, **(1986-1990)**
- Scholarship for postgraduate studies in Analytical Chemistry, Greek State Institute of Scholarships **(1991-1993)**
- Student bursary during 7th Biennial National Atomic Spectroscopy Symposium, University of Hull, UK, 20-22 July **1994**
- Student bursary during SAC'95, University of Hull, UK, 11-15 July **1995**
- Student bursary during First Mediterranean Basin Conference on Analytical Chemistry, Cordoba, Spain, 5-11 November **1995**
- Scholarship for postdoctoral research in Agricultural Chemistry, Greek State Institute of Scholarships **(1998)**
- Fellowship for the 3rd Euroconference on Environmental Analytical Chemistry, Chalkidiki, Greece, 9-15 October **1999**
- Best Poster award at 4th AACD, Kusadaci, Turkey, October **2004**
- R.W. Frei Award of IAEAC for a young scientist (Niki Maragou) at Recent Advances on Food Analysis, Prague, CZ, November **2007**
- CAMO best poster award (Marilena Dasenaki) at Recent Advances on Food Analysis, Prague, CZ, November **2009**
- Highly cited author award (2007-2009) of Journal of Chromatography A, **2010**
- Agilent best post award (Marilena Dasenaki) at Recent Advances on Food Analysis, Prague, CZ, November **2011**.
- Best Paper Award (Viola Borova) at 8th AACD, Izmir, Turkey, October **2012**
- Reviewer award from the Science of the Total Environment journal (Elsevier), October **2013**
- Two Best Poster Awards (Maria-Christina Nika & Aikaterini Psoma) out of the top-five in the Topic "Resources and Environment" at the European Chemistry Congresses (ECC) **2014** (<http://www.euchems2014.org/>), Instabul, Turkey, 31/8 – 4/9/2014.

List of Publications

Thesis

“DEVELOPMENT OF METHODS FOR THE DETERMINATION OF TRACE METALS: Improvement of Electrothermal Atomization Atomic Absorption Spectrometry using chemical modifiers and study of the mechanisms of their action”

International Scientific Journals with peer review

- Δ160 Natasa P. Kalogiouri, Reza Aalizadeh and Nikolaos S. Thomaidis “Investigating the organic and conventional production type of olive oil with target and suspect screening by LC-QTOF-MS, a novel semi-quantification method using chemical similarity and advanced chemometrics, *Analytical and Bioanalytical Chemistry*, **2017**, in press (doi: 10.1007/s00216-017-0395-6).
- Δ159 Maroula G. Kokotou and Nikolaos S. Thomaidis “Retention Behavior of Artificial Sweeteners on Hydrophilic Interaction Liquid Chromatography” *Analytical Letters*, **2017**, in press (doi: 10.1080/00032719.2017.1326124).
- Δ158 Saer Samanipour, Jose A. Baz-Lomba, Nikiforos A. Alygizakis, Malcolm J. Reid, Nikolaos S. Thomaidis, Kevin V. Thomas “Two stage algorithm vs commonly used approaches for suspect screening of complex environmental samples analyzed via LC-HR-TOF-MS: A comparative study” *Journal of Chromatography A*, **2017**, 1501, 68-78 (doi: 10.1016/j.chroma.2017.04.040).
- Δ157 Panagiotis Michopoulos, Eleni Farmaki, Nikolaos Thomaidis “Foliar status and factors affecting foliar and soil chemistry in a natural Aleppo pine forest” *Journal of Plant Nutrition and Soil Science*, **2017**, in press (doi: 10.1080/01904167.2016.1269341).
- Δ156 Reza Aalizadeh, Peter C. von der Ohe and Nikolaos S. Thomaidis, “Prediction of Acute Toxicity of Emerging Contaminants on the Water Flea *Daphnia magna* by Ant Colony Optimization - Support Vector Machine QSTR models”, *Environmental Science: Processes & Impacts*, **2017**, 19, 438–448 (doi: 10.1039/c6em00679e).
- Δ155 Jorge González-López, Ángeles Fernández-González, Amalia Jiménez, Athanasios Godelitsas, Spyridon Ladas, Georgios Provatas, Anastasios Lagoyannis, Ioannis N. Pasiadis, Nikolaos S. Thomaidis, Manuel Prieto, “Dissolution and sorption processes on the surface of calcite in the presence of high Co^{2+} concentration” *Minerals*, **2017**, 7, 23 (doi:10.3390/min7020023).
- Δ154 Elisabeth Martinou, Kostas Seintis, Nikolaos Karakostas, Anna Bletsou, Nikolaos S. Thomaidis, Mihalis Fakis and George Pistolis, “The Dynamics of Intramolecular Energy Hopping in Multi-Bodipy Self – Assembled Metallocyclic Species: A Tool For Probing Subtle Structural Distortions in Solution” *The Journal of Physical Chemistry*, **2017**, 121 (9), pp 5341–5355 (doi: 10.1021/acs.jpcc.6b12550).
- Δ153 Evangelia I. Iatrou, Georgia Gatidou, Dimitrios Damalas, Nikolaos S. Thomaidis, Athanasios S. Stasinakis, “Fate of antimicrobials in duckweed *Lemna minor* wastewater treatment systems” *Journal of Hazardous Materials*, **2017**, 330, 116–126.
- Δ152 C. Virgiliou, H. Gika, M. Witting, A. Bletsou, A. Athanasiadis, M. Zafrakas, N. S. Thomaidis, N. Raikos, G. Makridimas, G. Theodoridis, “Amniotic fluid and maternal serum metabolic signatures in the 2nd trimester associated with pre-term delivery” *Journal of Proteome Research*, **2017**, 16 (2), 898–910 (doi: 10.1021/acs.jproteome.6b00845).
- Δ151 Emma Gracia-Lor, Sara Castiglioni, Richard Bade, Frederic Been, Erika Castrignanò, Adrian Covaci, Iria González-Mariño, Evroula Hapeshi, Barbara Kasprzyk-Hordern, Juliet Kinyua, Foon Yin Lai, Thomas Letzel, Luigi Lopardo, Markus R. Meyer, Jake O'Brien, Pedram Ramin, Nikolaos Rousis, Axel Rydevik, Yeonsuk Ryu, Miguel M. Santos, Ivan Senta, Nikolaos Thomaidis, Sofia Veloutsou, Zhugen Yang, Ettore Zuccato, Lubertus Bijlsma, “Measuring biomarkers in wastewater as a new source of epidemiological information: current state and future perspectives” *Environment International*, **2017**, 99, 131–150 (doi: 10.1016/j.envint.2016.12.016).
- Δ150 Aikaterini A. Mazioti, Athanasios S. Stasinakis, Aikaterini K. Psoma, Nikolaos S. Thomaidis, Henrik R. Andersen “Hybrid Moving Bed Biofilm Reactor for the biodegradation of benzotriazoles and hydroxy-benzothiazole in wastewater” *Journal of Hazardous Materials*, **2017**, 323, 299–310 (doi:10.1016/j.jhazmat.2016.06.035).

- Δ149 Mohammad Boshir Ahmed, John L Zhou, Huu Hao Ngo, Wenshan Guo, Nikolaos S. Thomaidis, Jiang Xu “Progress in the biological and chemical treatment technologies for emerging contaminant removal from wastewater” *Journal of Hazardous Materials*, **2017**, 323, 274-298 (doi: 10.1016/j.jhazmat.2016.04.045).
- Δ148 Spyros K. Golfinopoulos, Anastasia D. Nikolaou, Nikolaos S. Thomaidis, Anna Maria Kotrikla, Maria Vagi, Andreas Petsas, Demetris F. Lekkas, Themistokles D. Lekkas “Determination of the priority substances regulated by 76/464/EEC and 2000/60/EC WF Directives in the surface waters supplying water treatments plants of Athens, Greece” *Journal of Environmental Science and Health, Part A, Toxic/Hazardous Substances and Environmental Engineering*, **2017**, 52, 378–384 (doi: 10.1080/10934529.2016.1262600).
- Δ147 Maria-Christina Nika, Anna A. Bletsou, Elena Koumaki, Constantinos Noutsopoulos, Daniel Mamais, Athanasios S. Stasinakis and Nikolaos S. Thomaidis “Chlorination of benzothiazoles and benzotriazoles and transformation products identification by LC-HR-MS/MS”, *Journal of Hazardous Materials*, **2017**, 323, 400–413 (doi: 10.1016/j.jhazmat.2016.03.035).
- Δ146 M. Ibáñez, V. Borova, C. Boix, R. Aalizadeh, R. Bade, N.S. Thomaidis and F. Hernández “UHPLC-QTOFMS screening of pharmaceuticals and their metabolites in treated wastewater samples from Athens” *Journal of Hazardous Materials*, **2017**, 323, 26-35 (doi: 10.1016/j.jhazmat.2016.03.078).
- Δ145 Sotirios Karavoltos, Fotios Fotiadis, Panagiotis Michopoulos, Aikaterini Sakellari, Marta Plavšić, Athanassios Bourletsikas, Kostas Kaoukis, Nikolaos Thomaidis, Manos Dassenakis, Michael Scoullou “Organic complexation of copper in throughfall and open field bulk deposition: influence of the tree canopy of Mediterranean forest ecosystems” *Chemosphere*, **2017**, 167, 28-35 (doi: 10.1016/j.chemosphere.2016.09.131).
- Δ144 Biswanath Dinda, Anthony M Kyriakopoulos, Subhajt Dinda, Vassilis Zoumpourlis, Nikolaos S Thomaidis, Aristeia Velegraki, Charalambos Markopoulos, Manikarna Dinda “Cornus mas L. (cornelian cherry), an important European and Asian traditional food and medicine: Ethnomedicine, phytochemistry and pharmacology for its commercial utilization in drug industry” *Journal of Ethnopharmacology*, **2016**, 193, 670-690 (doi: 10.1016/j.jep.2016.09.042).
- Δ143 Georgia Gatidou, Olga S. Arvaniti, Athanasios S. Stasinakis, Nikolaos S. Thomaidis, Henrik R. Andersen, “Using mechanisms of hydrolysis and sorption to reduce siloxanes occurrence in biogas of anaerobic sludge digesters” *Bioresource Technology*, **2016**, 221, 205-213 (doi: 10.1016/j.biortech.2016.09.018).
- Δ142 Natasa P.Kalogiouri, Nikiforos A. Alygizakis, Reza Aalizadeh, Nikolaos S. Thomaidis, “Olive oil authenticity studies by target and nontarget LC–QTOF-MS combined with advanced chemometric techniques” *Analytical and Bioanalytical Chemistry*, **2016**, 408, 7955–7970 (doi: 10.1007/s00216-016-9891-3).
- Δ141 Nikolaos S. Thomaidis, Pablo Gago-Ferrero, Christoph Ort, Niki C. Maragou, Nikiforos A. Alygizakis, Viola L. Borova, Marilena E. Dasenaki “Reflection of socio-economic changes in wastewater: licit and illicit drug use patterns” *Environmental Science & Technology*, **2016**, 50(18), pp 10065–10072 (doi: 10.1021/acs.est.6b02417).
- Δ140 Vasiliki G. Beretsou, Aikaterini K. Psoma, Pablo Gago-Ferrero, Kathrin Fenner, and Nikolaos S. Thomaidis “identification of biotransformation products of Citalopram formed in activated sludge” *Water Research*, **2016**, 103, 205–214 (doi: 10.1016/j.watres.2016.07.029).
- Δ139 Marilena E. Dasenaki, Anna A. Bletsou, Ahmad H. Hanafi, Nikolaos S. Thomaidis “Liquid Chromatography-Tandem Mass Spectrometric methods for the determination of spinosad, thiacloprid and pyridalyl in spring onions and estimation of their pre-harvest interval values” *Food Chemistry*, **2016**, 213, 395-401 (doi: 10.1016/j.foodchem.2016.06.099).
- Δ138 Marilena E. Dasenaki, Christina S. Michali, Nikolaos S. Thomaidis “Analysis of 76 Veterinary Pharmaceuticals from 13 Classes Including Aminoglycosides in Bovine Muscle by Hydrophilic Interaction Liquid Chromatography - Tandem Mass Spectrometry” *Journal of Chromatography A*, **2016**, 1452, 67-80 (doi: 10.1016/j.chroma.2016.05.031).
- Δ137 Reza Aalizadeh, Nikolaos S. Thomaidis, Anna A. Bletsou and Pablo Gago-Ferrero, “Quantitative structure-retention relationships models to support non-target high resolution mass spectrometric screening of emerging contaminants in environmental samples” *Journal of Chemical Information and Modeling*, **2016**, 56(7), 1384–1398 (doi: 10.1021/acs.jcim.5b00752).

- Δ136 Christophoros Christophoridis, Maristina Nika, Nikolaos Thomaidis, “Ozonation of ranitidine: effect of experimental parameters and identification of intermediates” *Science of the Total Environment*, **2016**, 557–558, 170–182 (doi: 10.1016/j.scitotenv.2016.03.026).
- Δ135 Vasiliki S. Thomaidi, Athanasios S. Stasinakis, Viola L. Borova, Nikolaos S. Thomaidis “Assessing the risk associated with the presence of emerging organic contaminants in sludge-amended soil: a country-level analysis” *Science of the Total Environment*, **2016**, 548–549, 280–288 (doi:10.1016/j.scitotenv.2016.01.043).
- Δ134 Athanasios I. Moukas, Nikolaos S. Thomaidis, Antonios C. Calokerinos, “A novel determination of polychlorinated naphthalenes by liquid chromatography-mass spectrometry with atmospheric pressure photoionization” *Analytical and Bioanalytical Chemistry*, **2016**, 408, 191-201 (doi: 10.1007/s00216-015-9092-5).
- Δ133 Nikiforos A. Alygizakis, Pablo Gago-Ferrero, Viola L. Borova, Alexandra Pavlidou, Ioannis Hatzianestis, Nikolaos S. Thomaidis “Occurrence and spatial distribution of 158 pharmaceuticals, drugs of abuse and related metabolites in offshore seawater” *Science of the Total Environment*, **2016**, 541, 1097-1105 (doi: 10.1016/j.scitotenv.2015.09.145).
- Δ132 Pablo Gago-Ferrero, Emma L. Schymanski, Anna A. Bletsou, Reza Aalizadeh, Juliane Hollender, Nikolaos S. Thomaidis, “Extended suspect and non-target strategies to characterize emerging polar organic contaminants in raw wastewater with LC-HRMS/MS” *Environmental Science & Technology*, **2015**, 49, 12333–12341 (doi: 10.1021/acs.est.5b03454).
- Δ131 Elena Koumaki, Daniel Mamais, Constantin Noutsopoulos, Maria-Christina Nika, Anna A. Bletsou, Nikolaos S. Thomaidis, Alexander Eftaxias, Georgia Stratogianni “Degradation of emerging contaminants from water under natural sunlight: the effect of season, pH, humic acids and nitrate and identification of photodegradation by-products” *Chemosphere*, **2015**, 138, 675–681 (doi: 10.1016/j.chemosphere.2015.07.033).
- Δ130 Viola L. Borova, Pablo Gago-Ferrero, Constantin Pistos and Nikolaos S. Thomaidis “Multi-residue determination of new psychoactive substances in wastewater samples by liquid chromatography–tandem mass” *Talanta*, **2015**, 144, 592–603 (doi: 10.1016/j.talanta.2015.06.080).
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Communications in Conferences with peer review

More than 220 scientific communications in national and international conferences after scientific review.

Selected presentation related to the topic of the research proposal:

- Σ219. Nikolaos S. Thomaidis “Measurement uncertainty in qualitative and quantitative wide - scope screening with LC-HRMS”, EURACHEM Workshop in “Uncertainty in Qualitative and Quantitative Analysis”, 29-30 May **2017**, Nicosia, Cyprus (**invited**)
- Σ218. Marios Kostakis, Nikolaos S. Thomaidis “Qualitative uncertainty (reliability) of chemical identification with High Resolution Mass Spectrometry” EURACHEM Workshop in “Uncertainty in Qualitative and Quantitative Analysis”, 29-30 May **2017**, Nicosia, Cyprus.
- Σ217. Damalas D.E., Agalou M., Beis D., Lamoree M.H., Leonards P.E.G., Thomaidis N. S. “From toxicity assay to metabolomics analysis - An integrated approach to assess the toxicity of three benzotriazoles in zebrafish (*Danio rerio*) embryos” NORMAN workshop - Integrated Exposure and Effects Assessment, April 11-12, **2017**, Amsterdam, The Netherlands, p.03.
- Σ216. Nikolaos S. Thomaidis and Reza Aalizadeh “RTI system for LC-HRMS screening in NORMAN context” 8th General Assembly of Norman, 30 November-1 December, **2016**, Vienna, Austria
- Σ215. N.A. Alygizakis, S. Samanipour, N.S. Thomaidis, K.V. Thomas: “The Norman Early Warning System (NormaNEWS): A new retrospective analysis exchange platform for laboratories active in non-target screening”, 8th General Assembly of Norman, 30 November-1 December, **2016**, Vienna, Austria
- Σ214. Diamanti K., Bletsou A.A., Damalas D.E., Thomaidis N.S. “Target screening of emerging contaminants in influent wastewater samples of Athens by LC-QTOF-MS” 22nd Hellenic Chemistry Conference, **2016**, Thessaloniki, Greece, p.07. (**awarded**).
- Σ213. Nikolaos S. Thomaidis “Targeted, semi-targeted and non-targeted screening approaches for food analysis” Workshop on “Non-Target Screening embedded in (Open Access) Platforms and its role in various disciplines”, 2-4 November **2016**, Munich (**invited**).
- Σ212. Reza Aalizadeh, Natasa P. Kalogiouri and Nikolaos S. Thomaidis “Application of Simulated Annealing Support Vector Machine as a Novel Chemometrics Tool to Support Non-target Screening in Liquid Chromatography High Resolution Mass Spectrometry” 10th Aegean Analytical Chemistry Days (AACD 2016), September 29-October 2, **2016**, Çanakkale, Turkey.
- Σ211. Kalogiouri N.P., Nikiforos A.A., Aalizadeh R. and Thomaidis N.S., “Development of target, suspect and non-target High Resolution Mass Spectrometry screening strategies coupled with advanced chemometric tools for the evaluation of extra virgin olive oil’s sensory profile”, 10th Aegean Analytical Chemistry Days (AACD 2016), September 29-October 2, **2016**, Çanakkale, Turkey.
- Σ210. Nikolaos S. Thomaidis “Target and non-target LC-HRMS strategies for the detection of emerging contaminants in the aquatic environment”, 10th Aegean Analytical Chemistry Days (AACD 2016), September 29-October 2, **2016**, Çanakkale, Turkey (**invited**).

- Σ209. Nikolaos S. Thomaidis «Integrated target and non-target LC-HRMS strategies to characterize polar contaminants in the aquatic environment» 12th workshop on LC-MS/MS for environmental analysis and food safety, Barcelona, 5-6 July **2016 (invited)**
- Σ208. Nikolaos S. Thomaidis “Analytical strategies to explore the polar fraction of environmental samples by non-target LC-HRMS screening” NonTarget2016, 29 May-3 June, **2016**, Ascona, Switzerland **(invited)**
- Σ207. Reza Aalizadeh and N. S. Thomaidis “RetTrAMS: SMILES based retention time prediction in RPLC/HILIC- (+/-) ESI - LC-HRMS screening” NonTarget2016, 29 May-3 June, **2016**, Ascona, Switzerland
- Σ206. P. Gago-Ferrero, N.A. Alygizakis, N.S. Thomaidis, “Prioritization and identification of substances formed during wastewater treatment and released into the aquatic environment”, NonTarget2016, 29 May-3 June, **2016**, Ascona, Switzerland
- Σ205. N. A. Alygizakis, R. Aalizadeh, P. Gago-Ferrero, A.A. Bletsou, N.S. Thomaidis, “Prioritizing and identifying polar emerging contaminants in wastewater by HILIC-HRMS”, NonTarget2016, 29 May-3 June, **2016**, Ascona, Switzerland
- Σ204. Thomaidis N.S., Bletsou A.A., Damalas D.E. “Pesticides, their metabolites and transformation products in urban wastewater: a change of perspective using extensive target and suspect LC-HRMS screening” 11th European Pesticide Residue Workshop, May 24-27, **2016**, Limassol, Cyprus, PD 096 and Bruker Lunch Seminar, p. (# 65). **(invited)**
- Σ203. Μάριος Γ. Κωστάκης, Νικόλαος Σ. Θωμαΐδης, Μιχαήλ Α. Κουπάρης «ΓΡΑΜΜΙΚΟΤΗΤΑ ΚΑΜΠΥΛΩΝ ΒΑΘΜΟΝΟΜΗΣΗΣ: ΑΝΑΣΚΟΠΗΣΗ ΚΑΙ ΝΕΕΣ ΠΡΟΣΕΓΓΙΣΕΙΣ» 6ο Τακτικό Συνέδριο Μετρολογίας, Αθήνα, 13 - 14 Μαΐου **2016**
- Σ202. Νικόλαος Θωμαΐδης “ΒΕΛΤΙΣΤΟΠΟΙΗΣΗ ΚΑΙ ΕΠΙΚΥΡΩΣΗ ΜΕΘΟΔΟΥ ΓΙΑ ΤΟ ΠΡΟΣΔΙΟΡΙΣΜΟ 2327 ΑΝΑΔΥΟΜΕΝΩΝ ΡΥΠΩΝ ΜΕ ΣΤΟΧΕΥΜΕΝΗ ΣΑΡΩΣΗ ΜΕ UPLC-QToF-HRMS/MS” 6ο Τακτικό Συνέδριο Μετρολογίας, Αθήνα, 13 - 14 Μαΐου **2016 (invited)**
- Σ201. Marios G. Kostakis, Michalis A. Koupparis, Nikolaos S. Thomaidis “ANOVA: A TOOL FOR BETTER EXPERIMENTAL DESIGN AND EVALUATION OF METHOD VALIDATION” EURACHEM workshop “Validation in Analytical Sciences”, 9-10 May **2016**, Ghent **(awarded)**
- Σ200. Νικόλαος Θωμαΐδης «Αξιολόγηση επικινδυνότητας χημικών κινδύνων και συνοπτική περιγραφή των μοντέλων που χρησιμοποιούνται σε ευρεία κλίμακα» Ημερίδα ΕΦΕΤ «Αξιολόγηση επικινδυνότητας χημικών παραγόντων», 15 Δεκεμβρίου **2015**, Αθήνα **(invited)**
- Σ199. M. Kostakis, I. Pasiyas, R. Aalizadeh, N.A. Alygizakis, N.S. Thomaidis, “Targeted and untargeted LC-MS metabolic profiling for proving the “freshly-frozen” claim in fish”, 7th International Symposium on Recent Advances in Food Analysis, 3-6 November, **2015**, Prague, Czech Republic
- Σ198. Nikolaos Thomaidis “Targeted determination of new psychoactive substances, drugs of abuse, psychoactive pharmaceuticals and other biomarkers in wastewater by LC-Q-ToF- HRMS” Testing the Waters II, Ascona, Switzerland, 10-15 October 2015. **(invited)**
- Σ197. Koullis A.G., Dasenaki E.M. and Thomaidis N.S. "Determination of hydrolyzed proteins molecular weight in fish feeds using size exclusion chromatography and UV detection" 9th International Conference on Instrumental Methods of Analysis-Modern Trends and Applications, September 20-24, **2015**, Kalamata, Greece, p. 132.
- Σ196. R. Aalizadeh and N. S. Thomaidis “Wide-scope QSRR models to support suspect and non-target screening of polar compounds in HILIC - ESI(+) - LC-HRMS” 9th International Conference on Instrumental Methods of Analysis. Modern Trends and Applications, September 20-24, **2015**, Kalamata, Greece, p.
- Σ195. A. A. Bletsou, A. A. Markatis, P. Gago Ferrero, N. S. Thomaidis “Wide-scope screening of polar emerging contaminants in environmental samples by HILIC-QToF-HR-MS/MS” 9th International Conference on Instrumental Methods of Analysis. Modern Trends and Applications, September 20-24, **2015**, Kalamata, Greece, p.
- Σ194. Kalogiouri N.P. and Thomaidis N.S., “Virgin Olive Oil. Examining authenticity with HR-MS workflows”, 9th International Conference on Instrumental Methods of Analysis. Modern Trends and Applications, September 20-24, **2015**, Kalamata, Greece, p. 81
- Σ193. Nikolaos Thomaidis “Development and optimization strategy of LC-APPI-MS methods for the determination of halogenated compounds in environmental matrices” 1st NORMAN workshop on analysis of problematic compounds, Sept. 1-2, **2015**, Rhodes, Greece.

- Σ192. Nikolaos Thomaidis “Basic theory, method development & optimization of HILIC methods” 1st NORMAN workshop on analysis of problematic compounds, Sept. 1-2, **2015**, Rhodes, Greece.
- Σ191. A.K. Psoma, V.G. Beretsou, E.N. Georgantzi, A.A. Bletsou, Rebekka Gulde, K. Fenner, and N.S. Thomaidis “Orthogonal identification of biotransformation products by HILIC-QTOFMS/MS, 1st NORMAN workshop on analysis of problematic compounds, Sept. 1-2, **2015**, Rhodes, Greece.
- Σ190. Bletsou, A. A.; Markatis, A. A.; and Thomaidis N.S. “HILIC-QTOF-HR-MS/MS for the orthogonal screening and identification of polar micropollutants in environmental samples” 1 st NORMAN workshop on analysis of problematic compounds, Sep. 1-2, **2015**, Rhodes, Greece
- Σ189. D.E. Damalas, A.A. Bletsou, A. Agalou, D. Beis, N.S. Thomaidis “Study of the metabolism of zebrafish (*danio rerio*) embryo exposed to triclosan and benzotriazoles by HILIC-TOF-MS” 1 st NORMAN workshop on analysis of problematic compounds, Sep. 1-2, **2015**, Rhodes, Greece
- Σ188. Tsilikidis I., Nika M. C., Christophoridis C. and Thomaidis N. S. “Identification of ozonation transformation products of furosemide using LC-HR-MS/MS” 14th International Conference on Environmental Science and Technology (CEST 2015), September 03-05, **2015**, Rhodes, Greece, p. 53.
- Σ187. D.E. Damalas, A.A. Bletsou, A. Agalou, D. Beis, N.S. Thomaidis "A toxicokinetic approach to assess the effects on metabolism of Triclosan and Benzotriazoles in zebrafish (*Danio rerio*) embryos" 14th International Conference on Environmental Science and Technology, Sep. 3-5, **2015**, Rhodes, Greece, p.108 (CEST2015_00554)
- Σ186. A.A. Bletsou, D.E. Damalas, P. Gago Ferrero, E.L. Schymanski, H.P. Singer, J. Hollender, N.S. Thomaidis "Wide-scope target screening of 2327 emerging pollutants during wastewater treatment by RP-LC-QTOF-HR-MS/MS with an accurate-mass database" 14th International Conference on Environmental Science and Technology, Sep. 3-5, **2015**, Rhodes, Greece, p. 51 (cest2015_01391)
- Σ185. N.A. Alygizakis, R. Aalizadeh, P. Gago-Ferrero, A.A. Bletsou, N.S. Thomaidis, “peakTrams: An automated computational approach for the simultaneous detection of features in Reverse Phase and HILIC HRMS screening”, 14th International Conference on Environmental Science and Technology, 3-5 September, **2015**, Rhodes Island, Greece
- Σ184. N.A. Alygizakis, P. Gago-Ferrero, M. Loos, H. Singer, J. Hollender, N.S. Thomaidis, “Automatic detection of concentration trends of organic pollutants in wastewater using computational approaches and chemometric tools on data acquired by LC-HRMS”, 14th International Conference on Environmental Science and Technology, 3-5 September, **2015**, Rhodes Island, Greece
- Σ183. Psoma A.K., Beretsou V.G., Georgantzi E.N., Bletsou A.A., Gulde R., Fenner K. and Thomaidis N.S. “A workflow for the orthogonal identification of biotransformation products by HILIC-QTOFMS” 14th International Conference on Environmental Science and Technology (CEST), September 3-5, **2015**, Rhodes, Greece, p.48.
- Σ182. P. Gago-Ferrero, A.A. Bletsou, R. Aalizadeh, N.S. Thomaidis “IDENTIFICATION OF UNKNOWNNS IN REAL WASTEWATER THROUGH THE APPLICATION OF A LC-QTOF-MS BASED WORKFLOW, SETAC, **2015**, Barcelona,
- Σ181. Anna A. Bletsou, Dimitrios E. Damalas, Pablo Gago Ferrero, Emma L. Schymanski, Heinz P. Singer, Juliane Hollender, Nikolaos S. Thomaidis “TARGET SCREENING OF 2327 EMERGING POLLUTANTS IN ENVIRONMENTAL SAMPLES BY RP-LC-QTOF-HR-MS/MS WITH AN ACCURATE-MASS DATABASE” Mediterranean Sea Region Countries Mass Spectrometry Workshop (MEDMSIII), 28 June-2 July, **2015**, Athens, Greece
- Σ180. Pablo Gago Ferrero, Anna A. Bletsou, E.L. Schymanski, Reza Aalizadeh, H. Singer, J. Hollender, Nikolaos S. Thomaidis “DEVELOPMENT OF A LC-HRMS/MS WORKFLOW FOR SUSPECT AND NON-TARGET SCREENING OF ORGANIC CONTAMINANTS OF EMERGING CONCERN IN ENVIRONMENTAL SAMPLES” Mediterranean Sea Region Countries Mass Spectrometry Workshop (MEDMSIII), 28 June-2 July, **2015**, Athens, Greece
- Σ179. Beretsou V.G., Psoma A.K., Bletsou A.A. and Thomaidis N.S. “Biotransformation of citalopram: insights from identification of transformation products by LC-QToF-MS” Mediterranean Sea Region Countries Mass Spectrometry Workshop (MEDMS III), June 28 to July 2, **2015**, Athens, Greece.
- Σ178. N.A. Alygizakis, P. Gago-Ferrero, N.S. Thomaidis, “Trend analysis of influent wastewater using R-based scripts and non-target HRMS approaches”, Mediterranean Sea Region Countries Mass Spectrometry Workshop (MEDMSIII), 28 June-2 July, **2015**, Athens, Greece
- Σ177. Bletsou A.A., Ferrero P.G., Psoma A.K., Aalizadeh R., Thomaidis N.S. “Development of wide-scope high resolution mass spectrometric screening workflows for the determination of known and unknown

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