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Education

B.Sc. in Chemistry (2009-2013), University of Athens, Grade: 9.18/10.00

M.Sc. in Chemical Analysis-Quality Control (2013-2015), University of Athens, Grade 9.65/10.00

Ph.D. in Analytical Chemistry (2015-2019), University of Athens, Grade Excellent

Research Topic:

Ph.D. Thesis

Development of novel methodologies for the identification of unknown compounds in the environment employing non-target screening and high-resolution mass spectrometry

The objective of the thesis was to develop novel workflows employing state-of-the-art target, suspect and non-target screening tools and apply them on samples obtained from important European ecosystems such as the Danube River Basin (DRB) and the Black Sea (BS). More details are available at the following publications with DOI: [10.1016/j.trac.2019.04.008](https://doi.org/10.1016/j.trac.2019.04.008), [10.1021/acs.est.8b00365](https://doi.org/10.1021/acs.est.8b00365), [10.1016/j.envint.2019.03.060](https://doi.org/10.1016/j.envint.2019.03.060) and [10.1016/j.scitotenv.2019.04.445](https://doi.org/10.1016/j.scitotenv.2019.04.445).

Master Thesis

Implementation of chemometric techniques for the detection and non-target identification of analytes with distinguished time pattern in wastewater by LC-Q-TOF

The aim of this proposal was to implement a computational methodology that would facilitate the detection of contaminants with high fluctuation in intensity among wastewater samples sampled in time-series. The output of this methodology was a compound table with top-prioritized components. The identity of the top-ranked components was revealed by established non-target identification workflows. More details are available at the publication with DOI [10.1016/j.jhazmat.2018.08.073](https://doi.org/10.1016/j.jhazmat.2018.08.073).

Undergraduate Thesis

Determination of drugs of abuse and their metabolites in wastewater by LC-MS/MS (QQQ)

The objective of this study was to determine the concentration levels of illicit drugs and their metabolites in wastewater samples and the receiving environment. Concentration levels from wastewater samples were used to estimate the consumption of the drugs by the society (sewage epidemiology). More details are available at the publication with DOI [10.1021/acs.est.6b02417](https://doi.org/10.1021/acs.est.6b02417) and [10.1016/j.scitotenv.2015.09.145](https://doi.org/10.1016/j.scitotenv.2015.09.145).

Research Interests

- Automated data processing workflows for LC and GC-HRMS
- Advanced statistics and chemometrics techniques for prioritization of peaks in LC and GC-HRMS
- Identification of unknown compounds using not-target screening workflows
- Digital archivation of LC and GC-HRMS chromatograms
- Wide-scope retrospective screening of emerging contaminants in digitally-archived samples
- Strategies for the identification of river basin specific pollutants
- Application of bioassays to assess the biological responses of environmental samples
- Determination of antibiotics, their transformation products (TPs), antibiotic resistant bacteria and genes (ARB&ARGs)
- Application of prioritization decision trees to propose emerging contaminants for regulation
- Investigation of the fate of emerging contaminants in the environment
- New emerging technologies to achieve the widest possible chemical coverage (e.g. use of Hydrophilic interaction chromatography (HILIC) in monitoring)
- Big data, construction of databases and interfaces

Publications in journals

- P1. Nikiforos Alygizakis, Francois Lestremau, Pablo Gago-Ferrero, Rubén Gil-Solsona, Katarzyna Arturi, Juliane Hollender, Emma L. Schymanski, Valeria Dulio, Jaroslav Slobodnik, Nikolaos S. Thomaidis, **“Towards a harmonized identification scoring system in LC-HRMS/MS based non-target screening (NTS) of emerging contaminants”**, TrAC Trends in Analytical Chemistry, in press (DOI: [10.1016/j.trac.2023.116944](https://doi.org/10.1016/j.trac.2023.116944))
- P2. Kelsey Ng, Nikiforos Alygizakis, Nikolaos S. Thomaidis, Jaroslav Slobodnik, **“Wide-Scope Target and Suspect Screening of Antibiotics in Effluent Wastewater from Wastewater Treatment Plants in Europe”**, antibiotics, 2023, 12, 100 (DOI: [10.3390/antibiotics12010100](https://doi.org/10.3390/antibiotics12010100))
- P3. Kelsey Ng, Nikiforos Alygizakis, Maria-Christina Nika, Aikaterini Galani, Peter Oswald, Martina Oswaldova, Ľuboš Čirka, Uwe Kunkel, André Macherius, Manfred Sengl, Giulio Mariani, Simona Tavazzi, HelleSkejo, Bernd M.Gawlik, Nikolaos S. Thomaidis, Jaroslav Slobodnik, **“Wide-scope target screening characterization of legacy and emerging contaminants in the Danube River Basin by liquid and gas chromatography coupled with high-resolution mass spectrometry”**, Water Research, in press (DOI: [10.1016/j.watres.2022.119539](https://doi.org/10.1016/j.watres.2022.119539))
- P4. Maria-Christina Nika, Nikiforos Alygizakis, Olga S. Arvaniti, Nikolaos S. Thomaidis, **“Non-target screening of emerging contaminants in landfills: A Review”**, Current Opinion in Environmental Science & Health, 2023, 32, 100430 (DOI: [10.1016/j.coesh.2022.100430](https://doi.org/10.1016/j.coesh.2022.100430))
- P5. Georgios Gkotsis, Maria-Christina Nika, Antonia I. Athanasopoulou, Konstantinos Vasilatos, Nikiforos Alygizakis, Martin Boschert, Raphaela Osterauer, Kai-Achim Höpker, Nikolaos S. Thomaidis, **“Advanced throughput analytical strategies for the comprehensive HRMS screening of organic micropollutants in eggs of different bird species”**, Chemosphere, 2023, 312, Part 1, 137092 (DOI: [10.1016/j.chemosphere.2022.137092](https://doi.org/10.1016/j.chemosphere.2022.137092))
- P6. Jovana Jovanović Marić, Stoimir Kolarević, Jelena Đorđević, Karolina Sunjog, Ivan Nikolić, Ana Marić, Marija Ilić, Predrag Simonović, Nikiforos Alygizakis, Kelsey Ng, Peter Oswald, Jaroslav Slobodnik, Bojana Žegura, Branka Vuković-Gačić, Momir Paunović, Margareta Kračun-Kolarević, **“In situ detection of Genotoxic Potential as one of the Lines of Evidence within Weight-of-Evidence Approach – the Joint Danube Survey 4 Case Study”**, Mutagenesis, 2022, 1-12 (DOI: [10.1093/mutage/2022/1-12](https://doi.org/10.1093/mutage/2022/1-12))

- [10.1093/mutage/geac024](https://doi.org/10.1093/mutage/geac024))
- P7. Georgios Gkotsis, Maria-Christina Nika, Varvara Nikolopoulou, Nikiforos Alygizakis, Erasmia Bizani, Reza Aalizadeh, Alexander Badry, Elizabeth Chadwick, Alessandra Cincinelli, Daniela Claßen, Sara Danielsson, René Dekker, Guy Duke, Wiebke Drost, Natalia Glowacka, Bernd Göckener, Hugh A. H. Jansman, Monika Juergens, Burkhard Knopf, Jan Koschorreck, Oliver Krone, Tania Martellini, Paola Movalli, Sara Persson, Elaine D. Potter, Simon Rohner, Anna Roos, Emily O' Rourke, Ursula Siebert, Gabriele Treu, Nico W. van den Brink, Lee A. Walker, Rosie Williams, Jaroslav Slobodnik, Nikolaos S. Thomaidis, "**Assessment of contaminants of emerging concern in European apex predators and their prey by LC-QToF MS wide-scope target analysis**", Environment International, 2022, 170, 107623 (DOI: [10.1016/j.envint.2022.107623](https://doi.org/10.1016/j.envint.2022.107623))
- P8. Hiba M. Taha, Reza Aalizadeh, Nikiforos Alygizakis, Jean-Philippe Antignac, Hans Peter H. Arp, Richard Bade, Nancy Baker, Lidia Belova, Lubertus Bijlsma, Evan E. Bolton, Werner Brack, Alberto Celma, Wen-Ling Chen, Tiejun Cheng, Parviel Chirsir, Lubos Cirka, Lisa A. D'Agosino, Yannick D. Feunang, Valeria Dulio, Stellan Fischer, Pablo Gago-Ferrero, Aikaterini Galani, Birgit Geueke, Natalia Glowacka, et al., "**The NORMAN Suspect List Exchange (NORMAN-SLE): facilitating European and worldwide collaboration on suspect screening in high resolution mass spectrometry**", Environmental Sciences Europe, 2022, 34, 104 (DOI: [10.1186/s12302-022-00680-6](https://doi.org/10.1186/s12302-022-00680-6))
- P9. Alexander Badry, Jaroslav Slobodnik, Nikiforos Alygizakis, Dirk Bunke, Alessandra Cincinelli, Daniela Claßen, Rene W. R. J. Dekker, Guy Duke, Valeria Dulio, Bernd Göckener, Georgios Gkotsis, Georg Hanke, Morten Jartun, Paola Movalli, Maria-Christina Nika, Heinz Rüdél, Nikolaos S. Thomaidis, Jose V. Tarazona, Victoria Tornero, Gabriele Treu, Katrin Vorkamp, Lee A. Walker, Jan Koschorreck, "**Using environmental monitoring data from apex predators for chemicals management: towards harmonised sampling and processing of archived wildlife samples to increase the regulatory uptake of monitoring data in chemicals management**", Environmental Sciences Europe, 2022, 34, 81 (DOI: [10.1186/s12302-022-00664-6](https://doi.org/10.1186/s12302-022-00664-6))
- P10. Gabriele Treu, Jaroslav Slobodnik, Nikiforos Alygizakis, Alexander Badry, Dirk Bunke, Alessandra Cincinelli, Daniela Claßen, Rene W. R. J. Dekker, Bernd Göckener, Georgios Gkotsis, Georg Hanke, Guy Duke, Morten Jartun, Paola Movalli, Maria-Christina Nika, Heinz Rüdél, Jose V. Tarazona, Nikolaos S. Thomaidis, Victoria Tornero, Katrin Vorkamp, Lee A. Walker, Jan Koschorreck & Valeria Dulio, "**Using environmental monitoring data from apex predators for chemicals management: towards better use of monitoring data from apex predators in support of prioritisation and risk assessment of chemicals in Europe**", Environmental Sciences Europe, 2022, 34, 82 (DOI: [10.1186/s12302-022-00665-5](https://doi.org/10.1186/s12302-022-00665-5))
- P11. Paola Movalli, Jan Koschorreck, Gabriele Treu, Jaroslav Slobodnik, Nikiforos Alygizakis, Andreas Androulakakis, et al., "**The role of natural science collections in the biomonitoring of environmental contaminants in apex predators in support of the EU's zero pollution ambition**", Environmental Sciences Europe, 2022, 34, 38 (doi: [10.1186/s12302-022-00670-8](https://doi.org/10.1186/s12302-022-00670-8))
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- P13. Andreas Androulakakis, Nikiforos Alygizakis, Erasmia Bizani, Nikolaos S. Thomaidis, "**Current progress in the environmental analysis of poly- and perfluoroalkyl substances (PFAS). A review**", 2022, Environmental Science: Advances, (doi: [10.1039/D2VA00147K](https://doi.org/10.1039/D2VA00147K))
- P14. Nikiforos Alygizakis, Theodoros Giannakopoulos, Nikolaos S. Thomaidis, Jaroslav Slobodnik, "**Detecting the sources of chemicals in the Black Sea using non-target screening and deep learning convolutional neural networks**", Science of The Total Environment, 2022, 847, 157554 (doi: [10.1016/j.scitotenv.2022.157554](https://doi.org/10.1016/j.scitotenv.2022.157554))

- P15. Kelsey Ng, Nikiforos Alygizakis, Andreas Androulakis, Aikaterini Galani, Reza Aalizadeh, Nikolaos S. Thomaidis, Jaroslav Slobodnik, **"Target and suspect screening of 4,777 per- and polyfluoroalkyl substances (PFAS) in river water, wastewater, groundwater and biota samples in the Danube River Basin"**, *Journal of Hazardous Materials*, 2022, 436, 129276 (doi: [10.1016/j.jhazmat.2022.129276](https://doi.org/10.1016/j.jhazmat.2022.129276))
- P16. Reza Aalizadeh, Varvara Nikolopoulou, Nikiforos Alygizakis, and Nikolaos S. Thomaidis, **"First Novel Workflow for Semiquantification of Emerging Contaminants in Environmental Samples Analyzed by Gas Chromatography–Atmospheric Pressure Chemical Ionization–Quadrupole Time of Flight–Mass Spectrometry"**, *Analytical Chemistry*, 2022, 94, 27, 9766-9774, (doi: [10.1021/acs.analchem.2c01432](https://doi.org/10.1021/acs.analchem.2c01432))
- P17. Alberto Pistocchi, Nikiforos A. Alygizakis, Werner Brack, Alistair Boxall, Ian T. Cousins, Jörg E. Drewes, Saskia Finckh, Tom Gallé, Marie Launay, Michael S. McLachlan, Mira Petrovic, Tobias Schulze, Jaroslav Slobodnik, Thomas Ternes, Annemarie Van Wezel, Paola Verlicchi, Caroline Whalley, **"European scale assessment of the potential of ozonation and activated carbon treatment to reduce micropollutant emissions with wastewater"**, *Science of The Total Environment*, 2022, 848, 157124, (doi: [10.1016/j.scitotenv.2022.157124](https://doi.org/10.1016/j.scitotenv.2022.157124))
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- P19. Ievgeniia Prekrasna, Mariia Pavlovska, Iurii Oleinik, Evgen Dykyi, Jaroslav Slobodnik, Nikiforos Alygizakis, Liudmyla Solomenko, Elena Stoica, **"Bacterial communities of the Black Sea exhibit activity against persistent organic pollutants in the water column and sediments"**, *Ecotoxicology and Environmental Safety*, 2022, 234, 113367 (doi: [10.1016/j.ecoenv.2022.113367](https://doi.org/10.1016/j.ecoenv.2022.113367))
- P20. Nikiforos Alygizakis, Vasileios Konstantakos, Grigoris Bouziotopoulos, Evangelos Kormentzas, Jaroslav Slobodnik, Nikolaos S. Thomaidis, **"A multi-label classifier for predicting the most appropriate instrumental method for the analysis of contaminants of emerging concern"**, *Metabolites*, 2022, 12, 199 (doi: [10.3390/metabo12030199](https://doi.org/10.3390/metabo12030199))
- P21. Ievgeniia Prekrasna, Mariia Pavlovska, Artem Dzhulai, Evgen Dykyi, Nikiforos Alygizakis, Jaroslav Slobodnik, **"Antibiotic resistance in Black Sea microbial communities"**, *Frontiers in Environmental Science*, 2022, 10, 823172 (doi: [10.3389/fenvs.2022.823172](https://doi.org/10.3389/fenvs.2022.823172))
- P22. Wiebke Dürig, Nikiforos A. Alygizakis, Karin Wiberg, Lutz Ahrens, **"Application of a novel prioritisation strategy using non-target screening for evaluation of temporal trends (1969–2017) of contaminants of emerging concern (CECs) in archived lynx muscle tissue samples"**, *Science of the Total Environment*, 2022, 817, 153035 (doi: [10.1016/j.scitotenv.2022.153035](https://doi.org/10.1016/j.scitotenv.2022.153035))
- P23. Alexander Badry, Gabriele Treu, Georgios Gkotsis, Maria-Christina Nika, Nikiforos Alygizakis, Nikolaos S. Thomaidis, Christian C. Voigt, Oliver Krone, **"Ecological and spatial variations of legacy and emerging contaminants in white-tailed sea eagles from Germany: Implications for prioritisation and future risk management"**, *Environment International*, 2022, 158, 106934 (doi: [10.1016/j.envint.2021.106934](https://doi.org/10.1016/j.envint.2021.106934))
- P24. Wiebke Dürig, Nikiforos A. Alygizakis, Frank Menger, Oksana Golovko, Karin Wiberg, Lutz Ahrens, **"Novel prioritisation strategies for evaluation of temporal trends in archived white-tailed sea eagle muscle tissue in non-target screening"**, *Journal of Hazardous Materials*, 2022, 424 part A, 127331 (doi: [10.1016/j.jhazmat.2021.127331](https://doi.org/10.1016/j.jhazmat.2021.127331))
- P25. Varvara Nikolopoulou, Nikiforos A. Alygizakis, Maria-Christina Nika, Martina Oswaldova, Peter Oswald, Marios Kostakis, Anastasia Koupa, Nikolaos S. Thomaidis, Jaroslav Slobodnik, **"Screening of legacy and emerging substances in surface water, sediment, biota and groundwater samples collected in the Siverskyi Donets River Basin employing wide-scope target and suspect screening"**, *Science of the Total Environment*, 2022, 805, 150253 (doi: [10.1016/j.scitotenv.2021.150253](https://doi.org/10.1016/j.scitotenv.2021.150253))

- P26. Aikaterini Galani, Reza Aalizadeh, Marios Kostakis, Athina Markou, Nikiforos Alygizakis, Theodore Lytras, Panagiotis G. Adamopoulos, Jordan Peccia, David C. Thompson, Aikaterini Kontou, Apostolos Karagiannidis, Evi S. Lianidou, Margaritis Avgeris, Dimitrios Paraskevis, Sotirios Tsiodras, Andreas Scorilas, Vasilis Vasiliou, Meletios-Athanasios Dimopoulos, Nikolaos S. Thomaidis, “**SARS-CoV-2 wastewater surveillance data can predict hospitalizations and ICU admissions**”, *Water Research*, **2022**, 804, 150151 (doi: [10.1016/j.scitotenv.2021.150151](https://doi.org/10.1016/j.scitotenv.2021.150151))
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- P31. Nikolaos I. Rousis, Maria Denardou, Nikiforos Alygizakis, Aikaterini Galani, Anna A. Bletsou, Dimitrios E. Damalas, Niki C. Maragou, Kevin V. Thomas, Nikolaos S. Thomaidis, “**Assessment of Environmental Pollution and Human Exposure to Pesticides by Wastewater Analysis in a Seven-Year Study in Athens, Greece**”, **2021**, *Toxics*, 9, 260 (doi: [10.3390/toxics9100260](https://doi.org/10.3390/toxics9100260))
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- P36. Lian Lundy, Despo Fatta-Kassinou, Jaroslav Slobodnik, Popi Karaolia, Lubos Cirka, Norbert Kreuzinger, Sara Castiglioni, Lubertus, Bijlsma, Valeria Dulio, Geneviève Deviller, Foon Yin Lai, Nikiforos Alygizakis, Manuela Barneo, ..., Alexander van Nuijs, Vassie Ware, Maria Viklander, **"Making Waves: Collaboration in the time of SARS-CoV-2 - rapid development of an international co-operation and wastewater surveillance database to support public health decision-making"**, *Water Research*, **2021**, 199, 117167 (doi: [10.1016/j.watres.2021.117167](https://doi.org/10.1016/j.watres.2021.117167))
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- P39. Nuno P.F. Gonçalves, Zsuzsanna Varga, Stéphane Bouchonnet, Valeria Dulio, Nikiforos Alygizakis, Federica Dal Bello, Claudio Medana, Paola Calza, **"Study of the photoinduced transformations of maprotiline in river water using liquid chromatography high-resolution mass spectrometry"**, *Science of the Total Environment*, **2021**, 755, 143556 (doi: [10.1016/j.scitotenv.2020.143556](https://doi.org/10.1016/j.scitotenv.2020.143556))
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- P41. Valeria Dulio, Jan Koschorreck, Bert van Bavel, Paul van den Brink, Juliane Hollender, John Munthe, Martin Schlabach, Reza Aalizadeh, Marlene Agerstrand, Lutz Ahrens, Ian Allan, Nikiforos Alygizakis et al., **"The NORMAN Association and the European Partnership for Chemicals Risk Assessment (PARC): let's cooperate!"**, *Environmental Sciences Europe*, **2020**, 32 (doi: [10.1186/s12302-020-00375-w](https://doi.org/10.1186/s12302-020-00375-w))
- P42. Konstantina Diamanti, Nikiforos A. Alygizakis, Maria-Christina Nika, Martina Oswaldova, Peter Oswald, Nikolaos S. Thomaidis, Jaroslav Slobodnik **"Assessment of the chemical pollution status of the Dniester River Basin by wide-scope target and suspect screening using mass spectrometric techniques"**, *Analytical and Bioanalytical Chemistry*, **2020**, 412, 4893-4907 (doi: [10.1007/s00216-020-02648-y](https://doi.org/10.1007/s00216-020-02648-y))
- P43. Nikiforos A. Alygizakis, Jakub Urík, Vasiliki G. Beretsou, Ioannis Kampouris, Aikaterini Galani, Martina Oswaldova, Thomas Berendonk, Peter Oswald, Nikolaos Thomaidis, Jaroslav Slobodnik, Branislav Vrana, Despo Fatta-Kassinou **"Evaluation of chemical and biological contaminants of emerging concern in treated wastewater intended for agricultural reuse"** *Environment International*, **2020**, 138, 105597, (doi: [10.1016/j.envint.2020.105597](https://doi.org/10.1016/j.envint.2020.105597))
- P44. Peter von der Ohe, Finian Freeling, Nikiforos Alygizakis, Jaroslav Slobodnik, Peter Oswald, Reza Aalizadeh, Lubos Cirka, Nikolaos S. Thomaidis, Marco Scheurer **"Explaining the rationale behind the risk assessment of surfactants by Freeling et al. (2019)"** *Science of the total environment*, **2020**, 721, 136828, (doi: [10.1016/j.scitotenv.2020.136828](https://doi.org/10.1016/j.scitotenv.2020.136828))
- P45. Pablo Gago-Ferrero, Anna Bletsou, Dimitrios E. Damalas, Reza Aalizadeh, Nikiforos Alygizakis, Heinz Singer, Juliane Hollender, Nikolaos S. Thomaidis **"Wide-scope target screening of >2000 emerging contaminants in wastewater samples with UPLC-Q-ToF-HRMS/MS and smart evaluation of its performance through the validation of 195 selected representative analytes"** *Journal of Hazardous Materials*, **2020**, 387, 121712, (doi: [10.1016/j.jhazmat.2019.121712](https://doi.org/10.1016/j.jhazmat.2019.121712))

- P46. Iria González-Mariño, Jose Antonio Baz-Lomba, Nikiforos A. Alygizakis, Maria Jesús Andrés-Costa, Richard Bade, Leon P. Barron, Frederic Been, Jean-Daniel Berset, Lubertus Bijlsma, Igor Bodík, Asher Brenner, Andreas L. Brock, Daniel A. Burgard, Erika Castrignanò, Christophoros E. Christophoridis, Adrian Covaci, Pim de Voogt, Damien A. Devault, et al., “**Spatio-temporal assessment of illicit drug use at large scale: evidence from seven years of international wastewater**” *Addiction*, **2020**, 115, 1, 109-120, (doi: [10.1111/add.14767](https://doi.org/10.1111/add.14767))
- P47. Konstantina S. Diamanti, Reza Aalizadeh, Nikiforos Alygizakis, Marie Mardal, Nikolaos S. Thomaidis “**Wide-scope target and suspect screening methodologies to investigate the occurrence of new psychoactive substances in influent wastewater from Athens**” *Science of the Total Environment*, **2019**, 685, 1058-1065, (doi: [10.1016/j.scitotenv.2019.06.173](https://doi.org/10.1016/j.scitotenv.2019.06.173))
- P48. Paola Movalli, Guy Duke, Gloria Ramello, René Dekker, Al Vrezec, Richard F. Shore, Antonio García-Fernández, Chris Wernham, Oliver Krone, Nikiforos Alygizakis, Alexander Badry, Fausto Barbagli, Koos Biesmeijer, Giovanni Boano, Alexander L. Bond, Yael Choresch, et al., “**Progress on bringing together raptor collections in Europe for contaminant research and monitoring in relation to chemicals regulation**” *Environmental Science and Pollution Research*, **2019**, 26, 20, 20132-20136, (doi: [10.1007/s11356-019-05340-6](https://doi.org/10.1007/s11356-019-05340-6))
- P49. Finian Freeling, Nikiforos Alygizakis, Peter von der Ohe, Jaroslav Slobodnik, Peter Oswald, Reza Aalizadeh, Lubos Cirka, Nikolaos S. Thomaidis, Marco Scheurer “**Occurrence and potential environmental risk of surfactants and their transformation products discharged by wastewater treatment plants**” *Science of the total environment*, **2019**, 681, 475-487, (doi: [10.1016/j.scitotenv.2019.04.445](https://doi.org/10.1016/j.scitotenv.2019.04.445))
- P50. Nikiforos Alygizakis, Peter Oswald, Nikolaos S. Thomaidis, Emma Schymanski, Reza Aalizadeh, Tobias Schulze, Martina Oswaldova, Jaroslav Slobodnik “**NORMAN digital sample freezing platform: A European virtual platform to exchange liquid chromatography high resolution-mass spectrometry data and screen suspects in “digitally frozen” environmental samples**” *TrAC Trends in Analytical Chemistry*, **2019**, 115, 129-137, (doi: [10.1016/j.trac.2019.04.008](https://doi.org/10.1016/j.trac.2019.04.008))
- P51. Nikiforos Alygizakis, Harrie Besselink, Gabriela K. Paulus, Peter Oswald, Luc M. Hornstra, Martina Oswaldova, Gertjan Medema, Nikolaos S. Thomaidis, Peter Behnisch, Jaroslav Slobodnik “**Characterisation of wastewater effluents in the Danube river basin with targeted and non-target chemical screening techniques, in vitro bioassays and antibiotic resistant genes analysis**” *Environment International*, **2019**, 127, 420-429, (doi: [10.1016/j.envint.2019.03.060](https://doi.org/10.1016/j.envint.2019.03.060))
- P52. Pawel Rostkowski, Peter Haglund, Reza Aalizadeh, Nikiforos Alygizakis, Nikolaos Thomaidis, Joaquin Beltran Arandes, Pernilla Bohlin Nizzetto, Petra Booij, Hélène Budzinski, Pamela Brunswick, Adrian Covaci, Christine Gallampois, Sylvia Grosse, Ralph Hindle, Ildiko Ipolyi, Karl Jobst, Sarit L. Kaserzon, Pim Leonards, Francois Lestremou, Thomas Letzel, Jörgen Magnér, Hidenori Matsukami, Christoph Moschet, Peter Oswald, Merle Plassmann, Jaroslav Slobodnik, Chun Yang “**The strength in numbers: Comprehensive characterization of house dust using complementary mass spectrometric techniques**” *Analytical and bioanalytical chemistry*, **2019**, 411, 10, 1957-1977, (doi: [10.1007/s00216-019-01615-6](https://doi.org/10.1007/s00216-019-01615-6))
- P53. Gabriela K. Paulus, Luc M. Hornstra, Nikiforos Alygizakis, Jaroslav Slobodnik, Nikolaos S. Thomaidis, Gertjan Medema “**The impact of on-site hospital wastewater treatment on the downstream communal wastewater system in terms of antibiotics and antibiotic resistance genes**” *Journal of hygiene and environmental health*, **2019**, 222, 4, 635-644, (doi: [10.1016/j.ijheh.2019.01.004](https://doi.org/10.1016/j.ijheh.2019.01.004))
- P54. Nikiforos Alygizakis, Pablo Gago-Ferrero, Juliane Hollender, Nikolaos S. Thomaidis “**Untargeted time-pattern analysis of LC-HRMS data to detect spills and compounds with high fluctuation in influent wastewater**” *Journal of Hazardous Materials*, **2019**, 361, 5, 19-29, (doi: [10.1016/j.jhazmat.2018.08.073](https://doi.org/10.1016/j.jhazmat.2018.08.073))

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- P56. Saer Samanipour, Joze Baz-Lomba, Nikiforos 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-QTOF-MS: A comparative study**” *Journal of Chromatography A*, **2017**, 1501, 9, 68-78, (doi: [10.1016/j.chroma.2017.04.040](https://doi.org/10.1016/j.chroma.2017.04.040))
- P57. Natasa Kalogiouri, Nikiforos Alygizakis, Reza Aalizadeh, Nikolaos S. Thomaidis “**Olive oil authenticity studies by target and non-target LC-QTOF-MS combined with advanced chemometric techniques**” *Analytical and Bioanalytical Chemistry*, **2016**, 408, 28, 7955-7970, (doi: [10.1007/s00216-016-9891-3](https://doi.org/10.1007/s00216-016-9891-3))
- P58. Nikolaos S. Thomaidis, Pablo Gago-Ferrero, Christoph Ort, Niki Maragou, Nikiforos Alygizakis, Violeta Borova, Maria Dasenaki “**Reflection of socio-economic changes in wastewater: licit and illicit drug use patterns**” *Environmental Science and Technology*, **2016**, 50, 18, 10065-10072, (doi: [10.1021/acs.est.6b02417](https://doi.org/10.1021/acs.est.6b02417))
- P59. Nikiforos Alygizakis, Pablo Gago-Ferrero, Violeta 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, 15, 1097-1105, (doi: [10.1016/j.scitotenv.2015.09.145](https://doi.org/10.1016/j.scitotenv.2015.09.145))

Book chapters & Scientific reports

- B1. Nikiforos Alygizakis, Jaroslav Slobodnik, Nikolaos S. Thomaidis “Chapter 10 - Sources and occurrence of pharmaceutical residues in offshore seawater” in “*Pharmaceuticals in Marine and Coastal Environments*”, Elsevier, **2021**, 329-350 (ISBN: [978-0081029718](https://www.isbn-international.org/product/978-0-08-102971-8))
- B2. Andreas Scheidleder, Uta Wemhöner, Franko Humer, Pauline Louis, Marie-Noëlle Pons, Davide A.L. Vignati, Manfred Sengl, Uwe Kunkel, Andre Macherius, Tobias Schulze, Giulio Mariani, Simona Tavazzi, Sara Romero, Peter Oswald, Bernd Gawlik, Nikiforos Alygizakis, Jaroslav Slobodnik, Janine Halder, “Chapter 25 - Groundwater screening”, *International Commission for the Protection of the Danube River (ICPDR)*, **2021**, 245-270 (ISBN: [978-3-200-07450-7](https://www.isbn-international.org/product/978-3-200-07450-7))
- B3. Nikiforos Alygizakis, Aikaterini Galani, Maria-Christina Nika, Nikolaos S. Thomaidis, Uwe Kunkel, André Macherius, Manfred Sengl, Giulio Mariani, Simona Tavazzi, Helle Skejo, Bernd M. Gawlik, Peter Oswald, Martina Oswaldova, Lubos Cirka, Jaroslav Slobodnik “Chapter 29 - Wide-scope target screening of industrial chemicals and plant protection products in wastewater, groundwater, river water, sediments and biota by liquid and gas chromatography coupled with high-resolution mass spectrometry”, *International Commission for the Protection of the Danube River (ICPDR)*, **2021**, 299-312 (ISBN: [978-3-200-07450-7](https://www.isbn-international.org/product/978-3-200-07450-7))
- B4. Maria-Christina Nika, Aikaterini Galani, Nikiforos Alygizakis, Nikolaos Thomaidis, Giulio Mariani, Simona Tavazzi, Helle Skejo, Bernd M. Gawlik, Peter Oswald, Martina Oswaldova, Lubos Cirka, Jaroslav Slobodnik “Chapter 30 - Wide-scope target screening of illicit drugs, pharmaceuticals, antibiotics and personal care products in wastewater, groundwater, river water, sediments and biota by liquid chromatography coupled with high resolution mass spectrometry”, *International Commission for the Protection of the Danube River (ICPDR)*, **2021**, 313-336 (ISBN: [978-3-200-07450-7](https://www.isbn-international.org/product/978-3-200-07450-7))
- B5. Nikiforos Alygizakis, Aikaterini Galani, Maria-Christina Nika, Nikolaos Thomaidis, Peter Behnisch,

- Harrie Besselink, Peter Oswald, Martina Oswaldova, Lubos Cirka, Jaroslav Slobodnik “Chapter 31 - Characterization of waste waters in the Danube River Basin with chemical screening and a battery of *in vitro* bioassays”, International Commission for the Protection of the Danube River (ICPDR), 2021, 337-348 (ISBN: [978-3-200-07450-7](#))
- B6. Branislav Vrana, Foppe Smedes, Klára Hilscherová, Roman Prokeš, Jaromír Sobotka, Pavla Fialová, Nikiforos Alygizakis, Jaroslav Slobodnik, Peter Tarábek, Jarmila Makovinská, Nikolaos Thomaidis, Maria-Christina Nika, Martin Krauss, Melis Muz, Tobias Schulze, Roman Grabic, Kateřina Grabicová “Chapter 32 - Analysis of organic substances in the Danube river surface water by passive sampling”, 2021, 349-362 (ISBN: [978-3-200-07450-7](#))
- B7. Tobias Schulze, Nikiforos Alygizakis, Tobias Bader, Beate Escher, Lena Betz, Markus Flörs, Klára Hilscherová, Kevin Jewell, Eberhard Küster, Uwe Kunkel, André Macherius, Jiří Novák, Peter Oswald, Sinisa Repec, Rita Schlichting, Michael Schlüsener, Mechthild Schmitt-Jansen, Wolfgang Schulz, Manfred Sengl, Draženka Stipančev, Peter Tarábek, Nikolaos S. Thomaidis, Zuzana Toušová, Jaroslav Slobodnik, Werner Brack, Martin Krauss “Chapter 34 - Comparability of data obtained by suspect and non-target screening and by NORMAN panel of *in vitro* and *in vivo* bioassays: results of an interlaboratory study”, 2021, 373-394 (ISBN: [978-3-200-07450-7](#))
- B8. Jaroslav Slobodnik, Nikiforos Alygizakis, Maria-Christina Nika, Peter Oswald, Lubos Cirka, Nikolaos S. Thomaidis, Peter von der Ohe, Valeria Dulio “Chapter 36 - Prioritisation of Danube River Basin Specific Pollutants using the NORMAN Prioritisation Framework”, 2021, 419-446 (ISBN: [978-3-200-07450-7](#))
- B9. Martin Krauss, Nikiforos Alygizakis, Katerina Galani, Maria-Christina Nika, Nikolaos S. Thomaidis, Manfred Sengl, Uwe Kunkel, Andre Macherius, Giulio Mariani, Simona Tavazzi, Helle Skejo, Sara Comero, Bernd M. Gawlik, Jaroslav Slobodnik, Werner Brack, Tobias Schulze “Chapter 37 - Comparison of target screening and target analysis approaches for surface water samples”, 2021, 447-456 (ISBN: [978-3-200-07450-7](#))
- B10. Nikolaos Thomaidis, Peter Oswald, Nikiforos Alygizakis, Jaroslav Slobodnik, “Target, suspect and non-target screening of Black Sea pollutants in water and sediments by LC-HR-MS and GC-MS techniques”, 2016, 388-420, National Pilot Monitoring Studies and Joint Open Sea Surveys in Georgia, Russian Federation and Ukraine ([Scientific Report](#))
- B11. Nikolaos Thomaidis, Peter Oswald, Nikiforos Alygizakis, Jaroslav Slobodnik, “Target, suspect and non-target screening of Black Sea pollutants in biota by LC-HR-MS and GC-MS techniques”, 2016, 433-446, National Pilot Monitoring Studies and Joint Open Sea Surveys in Georgia, Russian Federation and Ukraine ([Scientific Report](#))
- B12. Maria-Christina Nika, Nikiforos Alygizakis, Aikaterini Psoma, Dimitrios Damalas and Nikolaos S. Thomaidis, “V.3 Target, suspect and non-target screening of Black Sea pollutants in water and sediments by LC-HR-MS and GC-MS techniques”, 2017, 424-463, Scientific Report – National Pilot Monitoring Studies and Joint Open Sea Surveys in Georgia, Russian Federation and Ukraine ([Scientific report](#))
- B13. Maria-Christina Nika, Nikiforos Alygizakis, Aikaterini Psoma, Dimitrios Damalas and Nikolaos S. Thomaidis, “VI. DESCRIPTOR 8 and 9 Concentration of contaminants in fish and seafood”, 2017, 464-532, Scientific Report – National Pilot Monitoring Studies and Joint Open Sea Surveys in Georgia, Russian Federation and Ukraine ([Scientific report](#))

Conferences Presentations

> 50 conference participations. Below are the most recent conference participations:

- I. G. Gkotsis, A. Badry, G. Treu, M.C. Nika, N. Alygizakis, O. Krone, C. Baessmann, N. S. Thomaidis

- “Advanced HRMS techniques for the screening of organic micropollutants in white-tailed sea eagles through wide-scope target and suspect methodologies”, 69th ASMS Conference, 31/10/2021-04/11/2021, Pennsylvania, USA (poster presentation)
2. C. Postigo, R. Gil-Solsona, M.F. Herrera-Batista, P. Gago-Ferrero, N. Alygizakis, L. Ahrens, K. Wiberg “A step forward in the detection of chlorination byproducts of emerging contaminants”, ICNTS-21, 4-7/10/2021, Erding, Germany (poster presentation)
 3. E. Aleiferi, A. Galani, A. Kontou, L. Gkogkou, M.C. Nika, N. Alygizakis, E. Bizani, N.S. Thomaidis “Application of Wastewater-Based Epidemiology during COVID-19 pandemic in Greece for the investigation of patterns in licit and illicit drug consumption and other chemical compounds’ use, utilizing HRMS and LC-MS/MS.”, CEST 2021 01-04/09/2021, Athens, Greece (poster presentation)
 4. A. Androulakakis, N. Alygizakis, G. Gkotsis, M. C. Nika, V. Nikolopoulou, E. Bizani, A. Badry, E. Chadwick, A. Cincinelli, D. Claßen, S. Danielsson, R. W.R.J. Dekker, G. Duke, N. Glowacka, H. A.H. Jansman, B. Knopf, O. Krone, T. Martellini, P. Movalli, S. Persson, A. Roos, E. O'Rourke, H. Rüdell, U. Siebert, G. Treu, N. W. van den Brink, L. A. Walker, J. Slobodnik, N. S. Thomaidis “Simultaneous determination of 56 perfluoroalkyl acids and precursors in top predators and their prey by liquid chromatography-tandem mass spectrometry”, CEST 2021 01-04/09/2021, Athens, Greece (oral presentation)
 5. K. Diamanti, M. C. Nika, N. Alygizakis, M. Kostakis, A. Koupa, P. Oswald, J. Slobodnik, N. S. Thomaidis “Water quality monitoring in the Dnieper River Basin using advanced analytical methodologies”, CEST 2021 01-04/09/2021, Athens, Greece (poster presentation)
 6. G. Gkotsis, M. C. Nika, K. Vasilatos, A. Orfanoti, A. Athanasopoulou, N. Alygizakis, P. Oswald, J. Slobodnik, N. S. Thomaidis “Investigation of the presence of organic micropollutants in biota specimens from the Antarctica ecosystem using state-of-the-art wide-scope target and suspect HRMS methodologies.” CEST 2021 01-04/09/2021, Athens, Greece (poster presentation)
 7. P. Movalli, T. Piersma, J. Hooijmeijer, R. Howison, R. Dekker, N. Alygizakis, G. Gkotsis, M. C. Nika, N. S. Thomaidis “High Resolution Mass Spectrometric non-target screening and wide-scope target analysis of emerging contaminants and target analysis of legacy contaminants in adult black-tailed godwit *Limosa limosa* in the Netherlands.” CEST 2021 01-04/09/2021, Athens, Greece (poster presentation)
 8. G.S., Rubén, N. C. Nika, N. Alygizakis, M. Bustamante, M. C. Villanueva, M. Foraster, M. D. Gómez-Roig, E. Llurba-Olive, J. Sunyer, P. Dadvand, N. S. Thomaidis, P. Gago-Ferrero “Evaluation of the human exposure to a broad spectrum of organic chemicals and the potential use of sewage sludge to prioritize hazardous substances” CEST 2021 01-04/09/2021, Athens, Greece (poster presentation)
 9. G. Treu, N. Alygizakis, A. Badry, K. Bauer, A. Cincinelli, D. Claßen, R. Dekker, W. Drost, G. Duke, N. Glowacka, B. Knopf, J. Koschorreck, T. Martellini, P. Movalli, M.C. Nika, H. Ruedel, N. S. Thomaidis, L. Walker, J. Slobodnik “Perspectives on the use of contaminant data from apex predators and their prey for hazard prioritization” CEST 2021 01-04/09/2021, Athens, Greece (poster presentation)
 10. P. Movalli, N. Alygizakis, A. Badry, R. Buij, A. Cincinelli, R. W.R.J. Dekker, G. Duke, G. Gkotsis, N. Glowacka, H. Jansman, J. Koschorreck, T. Martellini, M.C. Nika, V. Nikolopoulou, M.G. Pereira, E.D. Potter, D. Sleep, R.F. Shore, J. Slobodnik, S. Thacker, N.S. Thomaidis, G. Treu, N. W. Van der Brink, S. Van der Mije, L. Walker “Use of raptor chemical monitoring data to assess the effectiveness of chemical risk mitigation measures; the impact of pooling liver samples on power to detect change in contaminant concentrations at country scale”, SETAC Europe 2021, 3-6/05/2021, Virtual (poster presentation)
 11. P. Movalli, G. Cicero, G. Ramello, G. Sbokos, K. Vlachopoulos, R. W.R.J. Dekker, S. Espín, A.J. García-Fernández, P. Gómez-Ramírez, P.A. Hosner, S. Islam, D. Koureas, J.B. Kristensen, S. van der

- Mije, P. Sánchez-Virosta, O. Krone, M. Leivits, N. Sarajlić, R.F. Shore, A. Vrezec, L.A. Walker, C. Wernham, A. Lopez-Antia, R. Lourenço, R. Mateo, A. Badry, T.I. Fuisz, M. Guiraud, U. Johansson, M. Pavia, O. Pauwels, M.G. Pereira, T. Töpfer, R. Väinölä, D. Vangeluwe, N. Alygizakis, A. Cincinelli, W. Drost, G. Gkotsis, N. Glowacka, J. Koschorreck, T. Martellini, M.C. Nika, V. Nikolopoulou, J. Slobodnik, N.S. Thomaidis, G. Treu G, G. Duke “A Novel Role for Natural Science Collections in European Contaminant Monitoring”, SETAC Europe 2021, 3-6/05/2021, Virtual (poster presentation)
12. W. Dürig, N. Alygizakis, O Golovko, F. Menger, A. Bignert, K. Wiberg, L. Ahrens “Novel prioritization strategy of non-target features in archived white tailed sea eagle muscle tissue using temporal trends”, LCMSMS workshop, 15-16/10/2020, Virtual (poster presentation)
 13. H. Rüdell, B. Knopf, N. Alygizakis, N. Glowacka, J. Slobodnik, G. Gkotsis, M.C. Nika, N.S. Thomaidis, A. Cincinelli, T. Martellini, G. Duke, R. Shore, A. Badry, W. Drost, J. Koschorreck, P. Movalli, R. Dekker “Derivation of indicators for assessing the quality of biota samples and their suitability for environmental monitoring studies”, 30th Annual meeting SETAC Europe 03-07/05/2020, Dublin, Ireland. (oral presentation)
 14. P. Movalli, R. Dekker, P. van der Mije, G. Gkotsis, N. Alygizakis, M.C Nika, N.S. Thomaidis “Wide scope screening of emerging contaminants in peregrine falcon *Falco peregrinus* in the Netherlands”, 30th Annual meeting SETAC Europe 03-07/05/2020, Dublin, Ireland. (poster presentation)

Participation in projects

1. **2020: EUWI+ Project:** Monitoring of Dnieper river basin
2. **2019: Environment and Security Initiative (ENVSEC) with guidance from UN Economic Commission for Europe (UNECE), Organization for Security and Co-operation in Europe (OSCE), UN Environment Programme (UNEP) and UN Development Programme (UNDP):** Monitoring of Dniester river basin
3. **2019-2023: BIGDATA 4RIVERS:** Improving the European Rivers Water Quality through Smart Water Management Policies (INTERREG EUROPE)
4. **2019-2020: JDS4,** Joint Danube Survey 4 (International Commission for the Protection of the Danube River, ICPDR)
5. **2019-2020: EMBLAS-PLUS,** EU/UNDP Project: Improving Environmental Monitoring in the Black Sea – Selected measures
6. **2018-2022: LIFE APEX,** Systematic use of contaminant data from apex predators and their prey in chemicals management, LIFE17 ENV/SK/000355 (European Union)
7. **2018: Organization for Security and Co-operation in Europe (OSCE):** Monitoring of Seversky Donets river basin
8. **2018: EuropeAid/I38151/DH/SER/ME:** Strengthening the Capacities for Implementation of the Water Framework Directive in Montenegro
9. **2016-2018: EMBLAS II,** EU/UNDP Project: Improving environmental monitoring in the Black Sea. Analysis of water framework priority substances and screening of black sea specific pollutants in water biota and sediment samples obtained during the National Pilot Monitoring Studies and Joint Open Sea Surveys and risk assessment of identified pollutants (UNDP)
10. **2016-2021: NORMAN Joint Program of Activities:** NormaNEWS (2017-2021), NORMAN Database System (2019-2021), NTS in biota (2019-2021), NTS in dust (2019-2021), NTS prioritization system (2019-2021), Suspect list exchange (2016-2020)
11. **2015-2019: ANSWER ITN Marie Skłodowska-Curie,** European Commission: Antibiotics, antibiotic resistant bacteria and genes in wastewater reuse practices
12. **2014-2015: TREMEPOL Project,** ARISTEIA, Ministry of Education: Transformation Products of Emerging Pollutants in the aquatic environment (Ministry of Education)

Scholarships and Awards

1. 2019-2021: Researcher at **LIFE APEX Project** (www.lifeapex.eu)
2. 2016-2019: Marie Skłodowska-Curie Fellowship at **ANSWER Project** (Grant agreement No 675530)
3. 2013-2015: Scholarship **John S. Latsis Foundation** for graduate studies
4. 2010-2013: Scholarship Antonios Papadakis, University of Athens (granted after exams)
5. **2011-2012&2012-2013**: Award from University of Athens (Heritage of Pantia Ralli) for high performance among students of department of Chemistry, University of Athens
6. 2011-2012: Award State Scholarships Foundation «**IKY**» for academic performance during 5th - 6th semesters of under graduate studies.

Professional Affiliations

- Association of Greek Chemists (2013-present)
- NORMAN Association (2015-present)
- COST Actions: SCORE ESI 307, NEREUS ESI 403, ERB Facility CA16224
- Hellenic Society of Mass Spectrometry (2015-present)

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