

CURRICULUM VITAE

Name: Nikos Lydakis - Simantiris



Address:

Technical University of Crete
School of Mineral Resources Engineering
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Date of birth: June 25, 1964.

Marital status: Married, two children.

Occupation: Professor, Technical University of Crete, School of Mineral Resources Engineering.

Education: Department of Biology,
The University of Michigan,
Postdoctoral Fellow, 1996-1999.
Research field: Protein Structure – Function Relationship

Department of Chemistry,
Michigan State University, and University of Crete,
Ph.D in Biophysical Chemistry - Spectroscopy, 1996.
Thesis Title: “The Electron Transfer Reactions in the Oxidizing Side of Photosystem II of Higher Plants”.

Department of Chemistry,
University of Crete,
M.Sc., Biochemistry, 1993.
Thesis Title: “Isolation and Characterization of Photosystem II of Photosynthetic Algae *Chlamydomonas Reinhardtii*”.

Department of Chemistry,
University of Athens,
Diploma in Chemistry, 1989.

Scholarships: Postgraduate Scholar, Department of Chemistry, University of Crete, 1990-1994.

Languages: Greek (native),
English (fluent)

Professional Experience:

- 1999-2002: Mediterranean Agronomic Institute of Chania, Laboratory of Analytical Chemistry and of Chemistry of Natural Products, and Laboratory of Soil Science and Plant Diagnostics, Director.
- 2002: Visiting Assistant Professor of Chemistry, Department of Natural Resources and the Environment, Technological Education Institution of Crete.
- 2002-2009: Lecturer of Chemistry and Biochemistry, Department of Natural Resources and the Environment, Technological Education Institution of Crete.
- 2009- 2013: Assistant Professor of Chemistry and Biochemistry, Department of Natural Resources and the Environment, Technological Education Institution of Crete.
- 2013- 2017: Associate Professor of Chemistry and Biochemistry, Department of Environmental and Natural Resources Engineering, Technological Education Institution of Crete.
- 2017- 2019: Professor of Chemistry and Biochemistry, Department of Environmental and Natural Resources Engineering, Technological Education Institution of Crete.
- 2019 -2023: Professor of Chemistry and Biochemistry, Department of Agriculture, Hellenic Mediterranean University.
- 2023 : Professor of Chemistry, Technical University of Crete, School of Mineral Resources Engineering. 2025- Director of the Laboratory of Analytical and Environmental Chemistry.

Teaching Experience:

- 2023- present: Development and teaching of the course “Physical Chemistry”, and co-teaching of the course “Technical Thermodynamics”, Technical University of Crete, School of Mineral Resources Engineering.
- 2022- present: Development and teaching of the postgraduate course “Analytical Chemistry–Instrumental Analysis”, Department of Agriculture, Hellenic Mediterranean University.
- 2019- 2023: Development and teaching of the courses “Organic Chemistry” and “Biochemistry”, Department of Agriculture, Hellenic Mediterranean University.
- 2017- 2019: Development and teaching of the course “Environmental Instrumental Analysis”, Department of Environmental and Natural Resources Engineering, TEI of Crete.
- 2016- 2019: Development and teaching of the theoretical and the laboratory parts of the course “Environmental Organic Chemistry and Biochemistry”, Department of Environmental and Natural Resources Engineering, TEI of Crete.
- 2015- 2019: Teaching (in English) of the Post Graduate course “Advanced Geochemistry”, Post Graduate Program “Geoenvironmental Resources and Risks”, Department of Environmental and Natural Resources Engineering, TEI of Crete.
- 2014- 2019: Teaching (in English) of the Post Graduate course “Environmental Chemistry”, Post Graduate Program “Geoenvironmental Resources and Risks”, Department of Environmental and Natural Resources Engineering, TEI of Crete.

- 2013 - present: Teaching (in English) of the Post Graduate course “Laboratory Techniques I”, Mediterranean Agronomic Institute of Chania.
- 2012- present: Teaching (in English) of the Post Graduate course “Biochemistry of secondary metabolism”, Mediterranean Agronomic Institute of Chania.
- 2011: Invited Lecturer, Erasmus Intensive Program “Organic Electronics and Applications”, Department of Electronics Engineering, TEI of Crete.
- 2010: Invited Lecturer, Erasmus Intensive Program “Organic Electronics and Applications”, Department of Electronics Engineering, TEI of Crete.
- 2003- 2006: Development and Teaching of the courses “Chemical Engineering” and “Introduction to Biochemical Processes”, Department of Natural Resources and the Environment, Technological Education Institution of Crete.
- 2002- 2019: Development and Teaching of the courses “Chemistry I”, “Chemistry II – Instrumental Chemical Analysis”, “General Chemistry Laboratory I” and “General Chemistry Laboratory II”, Department of Natural Resources and the Environment, Technological Education Institution of Crete.
- 2002 – 2003: Development and Teaching of the Laboratory course “Soil Science”, Department of Natural Resources and the Environment, Technological Education Institution of Crete.
- 2000 – 2003: Graduate Students’ Research Supervisor, Mediterranean Agronomic Institute of Chania.
- 1999 – 2001: Development and Teaching (in English) of the Post Graduate course “Plant Biochemistry: Experimental Techniques”, Mediterranean Agronomic Institute of Chania.
- 1996 – 1999: Undergraduate and Graduate Students Research Supervision, The University of Michigan.
- 1993 – 1996: Research Assistant, Physical Chemistry Laboratory, Department of Chemistry, Michigan State University.
- 1991 – 1992: Teaching Assistant, General Chemistry Laboratory, University of Crete.
- 1990 – 1991: Teaching Assistant, Organic Chemistry, University of Crete.

Administration Experience

- Since 2002, I participate in several committees of the Department of Environmental and Natural Resources Engineering.
- 2012-2013: Head of the Division of Environmental Technology of the Department
- 2014-2018: Chairman of the Department of Environmental and Natural Resources Engineering
- 2016-2018: Member of the Deanery of Technological Education Institute of Crete.
- 2018-2019: Director of the M.Sc. program “Geoenvironmental Resources and Risks, Department of Environmental and Natural Resources Engineering
- 2018-2019: Member of the Quality Assurance Unit of the Technological Educational Institution of Crete
- 2019- 2022: Member of the Quality Assurance Unit of the Hellenic Mediterranean University
- 2020- 2023: Member of the Steering Committee of the Institute of Agrifood and Life Sciences, of the University Research Center of the Hellenic Mediterranean University

2023-	Member of the Library Committee, Technical University of Crete
2024-	Vice Dean, School of Mineral Resources Engineering, Technical University of Crete

Participation in Research Programs:

- Mediterranean Reservoirs and Wetlands. A Demonstration of Multiple-Objective Management in the Island of Crete (LIFE00 ENV/GR/000685).
- The Influence of Environment on the Quality of Certain Medicinal and Aromatic Plants (GSRT, Common Research Programs, Greece – Slovakia, 2001-2003).
- The Treatment of Mine Waste to Achieve Cost Effective Engineered Closure of Tailing Dams (European Commission, Research Directorates General, GRD1-25816).
- Rational Management of the Water Resources of the Messara Valey, Crete, through the Application of an Integrated Hydroponic System (INTERREG-II)
- Energy Conversion at the Molecular Level: Cytochrome C Oxidase Model Compounds for the Reduction of Molecular O₂ to H₂O. (EPEAEK II, Greek Ministry of Education, Program Pythagoras, 2004-2006).
- Investigation of the Quality of the Water of the Karstic Underground Water System of Agyia Springs, Northwestern Crete (**Principal investigator**). (EPEAEK II, Greek Ministry of Education, Program Archimedes II, 2005-2006).
- Integrated Study of Algal Mats. Protection – Management. (EPEAEK II, Greek Ministry of Education, Program Archimedes II, 2005-2006).
- Development and Application of Novel Mass Spectrometry Methods for the Quantitative Determination of Se Compounds in Food Stuffs. (EPEAEK II, Greek Ministry of Education, Program Pythagoras II, 2005-2006).
- Mineralogical – Geochemical – Pedological Study of Soils of Different Lithology, from the Island of Crete. (EPEAEK II, Greek Ministry of Education, Program Pythagoras II, 2005-2006).
- Heavy metal-protein interactions in Benthic Organisms. (Herakletos II, 2011 – 2013).
- Comparative Study of the Accumulation of Heavy metals by Freshwater and Marine Phytoplankton. (A) heavy metal-protein interaction mechanisms. (B) Use of algae as biomarkers for heavy metal pollution and / or as bioremediation systems (**Principal Investigator**). (Greek Ministry of Education, Program Archimedes III, 2011-2014).
- Interdisciplinary Study for Exploring, Understanding and Management of Ground Water Resources. Pilot Field Investigation Northwest and Central Crete. (Greek Ministry of Education, Program Archimedes III, 2011-2014).
- Biotechnological Applications in Agriculture Through the Exploitation of Genetic Resources of Plants for the Production of Compounds with Pharmaceutical Interest in Yeast and e. Coli Using Metabolic

Engineering Methodology. (Greek Ministry of Education, Program Archimedes III, 2011-2014).

- Integrated Geoinformatics Technologies for Time Lapse Monitoring of Land Pollution from the Disposal of Olive-oil Mills Wastes. (Greek Ministry of Education, Program Thalys, 2011-2014).
- Metabolic Engineering of Model Biofactories by Recruiting the Genetic Resources of Plants and Microorganisms for the Heterologous Production of Hydroxytyrosol with Direct Application in Plant Protection. (Greek Ministry of Education, Program Thalys, 2011-2014).
- Bioaccumulation of Heavy Metal and Metalloid Pollutants by Photosynthetic algae, Investigated by Innovative Mass Spectrometry Methods. State Scholarship Institution, “Support of Postdoctoral Researchers, 2nd part”, 2020-2022.

I also participated in several competitive research programs during my doctoral studies and post-doctoral research activity, as evidenced in my published work.

Participation in other Programs

- Undergraduate Curriculum Reconstruction. Department of Natural Resources and the Environment, Technological Education Institution of Crete, 2003-2005.
- Program “Open Courses”. Program for the Education and Lifelong Learning. Technological Education Institution of Crete, 2013-2015.
- “LLP Organic Electronics & Applications”. European Union and Education, Audiovisual and Culture Executive Agency. 2013-2015.

International Scientific Journals Reviewer:

- WSEAS Transactions on Environment and Development
- International Journal of Environment and Waste Management
- International Journal of Geographical Information Science
- Environmental Technology
- Water Research
- Chemical Engineering Research and Design
- Toxicological and Environmental Chemistry
- CLEAN – Soil, Air, Water
- Global Nest Journal
- Environmental Science and Pollution Research
- Natural Hazards and Earth System Sciences
- Analytical Letters
- Water, Air, & Soil Pollution
- Water Science and Technology
- Lakes and Reservoirs
- Environmental Monitoring and Assessment
- Journal of Separation Science
- Chemical Papers

International Conference Chair – Member of International Conferences Organizing/Scientific Committees:

- Member of the International Scientific Committee of the 3rd International Conference on Energy, Environment, Ecosystems, and Sustainable Development, Agios Nikolaos, Crete, Greece, 24-26/7/2007.
- Member of the Organizing Committee of the 7th International Conference on Instrumental Methods of Analysis – Modern Trends and Applications, Chania, Crete, October 2011.
- Member of the International Scientific Committee of the 10th Aegean Analytical Chemistry Days, Canakkale, Turkey, 29 September – 2 October 2016.
- Member of the International Scientific Committee of the 15th International Conference on Environmental Science and Technology, Rhodes, Greece, 29 August – 2 September 2017.
- Member of the Organizing Committee of the International Conference “Climate Changing Agriculture”, Chania, Crete, August-September 2017.
- Member of the Organizing Committee of the 10th International Conference “Instrumental Methods of Analysis-Modern Trends and Applications”, Heraklion, Crete, September 2017.
- **Co-chair** of the International Conference “11th Aegean Analytical Chemistry Days”, Chania, Crete, September 2018.
- Member of the International Scientific Committee and of the Executive Programme Committee of the 16th International Conference on Environmental Science and Technology, Rhodes, Greece, 4 – 7 September 2019.
- Member of the Scientific Committee of the 11th International Conference “Instrumental Methods of Analysis-Modern Trends and Applications”, Ioannina, September 2019.
- Member of the International Scientific Committee and of the Executive Programme Committee of the 17th International Conference on Environmental Science and Technology, Athens, Greece, 1 – 4 September 2021.
- Member of the International Scientific Committee and of the Continuation Committee of the International Conference “12th Aegean Analytical Chemistry Days”, Istanbul, Turkey, October 2023.

Editor of Special Issue of International Scientific Journals

- Guest Editor of the special issue on “Heavy Metals in the Environment” of the Global Nest Journal, to be published in Autumn 2018
- Guest co-Editor of the special issue for “Aegean Analytical Chemistry Days 2018” International Conference, of the Journal “Analytical Letters”, to be published in Spring 2019.
- Guest co-Editor of the special issue “Bioactive Compounds in Food”, by MDPI, to be published in 2022.

Recognition of Scientific Work:

- 2012 citations (self-citations excluded), of published work, h-index 24 (source Google scholar, March 2025).

Ph.D Theses (Co-supervisor)

- Olga Chalkiadaki, Interactions of Heavy Metals with Proteins in Tissues of Benthic Organisms (with the Department of Chemistry of the University of Athens, 2015.
- Hamida Akli, Analytical Approach and Assessment of the Antioxidant Activity of Olive By-products Polyphenols and Milk Proteins from Different Species (with the Department of Biochemistry and Microbiology, Mouloud Mammeri University of Tizi Ouzou, Algeria), 2023.

Ph.D Theses (member of the 3-member supervising committee)

- Arsenic in the underground waters in Lesvos island: Chemical forms, hydrogeological conditions, physicochemical parameters, Irini Zkeri, Department of Environment, University of the Aegean, 2016
- Development of new analytical mass spectrometric techniques for the determination of metals and metabolites in single cells, Manos Mavrakis, Department of Chemistry, University of Crete, in progress.
- Holistic approach on the investigation of the molecular interactions for the development of the quality of the Greek olive oil in all the stages of the production chain, Grigorios Giakoumakis, Department of Agriculture, Hellenic Mediterranean University, in progress.
- Development of Mass Spectrometry methods for the metalomic analysis of Environmental and Biological systems, Georgia Panagou, Department of Chemistry, University of Crete, in progress.
- Modern analytical and molecular methods for the determination of the quality of honey, Elissavet Savidaki, Department of Agriculture, Hellenic Mediterranean University, in progress.
- Orange waste polyphenols: study on composition and valorization for the enrichment and oxidative stability of edible oils, Demetrios-Raphael Kalompatsios, Department of Food Science and Human Nutrition, University of Thessaly, in progress.

Ph.D Theses (member of the examination committee)

- Ilias Kopanakis, Department of Environmental Engineering, Technical University of Crete, 2015.
- Development of green high performance solid-liquid extraction processes for the recovery of antioxidant polyphenols from the medicinal plant *Salvia fruticosa* Mill. (Cretan sage), Spyros Grigorakis, Department of Food Science and Nutrition, University of the Aegean, 2020.
- Development of analytical methods for the determination of cyanotoxins in water, plant and animal tissues using liquid chromatography coupled to tandem mass spectrometry, Korina Manolidi, Department of Chemistry, NTUA, 2021.

Master of Science Theses, (Supervisor)

- Effects of Cd, Pb and Ni on Growth and Quality of Chamomile, Sage and Thyme Cultivated on Soil Enriched with Heavy Metals. Monika Fabian, Mediterranean Agronomic Institute of Chania, 2002.

- Sensory and Trace Element Analysis for the Classification of Honey of Various Geographical and Botanical Origins.
Cherif Chalhoub, Mediterranean Agronomic Institute of Chania, 2003.
- Comprehensive study of Heavy Metal effects on the green alga *Chlamydomonas reinhardtii*
Kiriakos Athanasiadis, University of Applied Sciences Crete, (The TEI Crete), 2017
- Accumulation of Heavy Metals in the Tissues of *Satureja cretica* and *Lathyrus ochrus* Cultivated in Contaminated Soils & Seasonal Variation Effect on Essential Oil Content and Composition of *Pelargonium graveolens* Cultivated in Crete, Greece.
Chaoula Ben Jeddou, Mediterranean Agronomic Institute of Chania, 2017.
- Study of the Accumulation of Heavy Metals and of the Quality of Essential Oil of *Pelargonium graveolens* Grown in Heavy Metal-Polluted Soils
Elena Patrolea, Mediterranean Agronomic Institute of Chania, 2019.
- An optimized approach for polyphenol extraction from olive leaf (*Olea europaea* L.) using deep eutectic solvents (DESs) composed of glycerol and amino acids
Hamida Akli, Mediterranean Agronomic Institute of Chania, June 2020.
- Assessment of total phenolic, antioxidant and metal content, and the chemical profiles of essential oils in *Myrtus comunis*, *Arbutus unedo*, and *Crataegus monogyna* from Crete.
Amira Ali, Mediterranean Agronomic Institute of Chania, October 2021.
- Variation in the concentrations of Ca, Mg, Cu, Mn, Zn & P in honey samples from beekeepers in Greece, related to their botanical and geographical origin
Dimosthenis Issaakidis, Mediterranean Agronomic Institute of Chania, December 2022.
- Phytochemical profile characterization and evaluation of the biological activities of different parts of *Crithmum Maritimum* L.(Apiaceae) harvested in Crete, during one-year vegetation period.
Souzana Tsochataridi, Mediterranean Agronomic Institute of Chania, June 2023.

Master of Science Theses (member of the 3-member supervising committee)

- Emanouil Mavrakis, Department of Chemistry, University of Crete, 2017
- Leonidas Mavroudakis, Development and Application of Desorption Sonic-Spray Ionization Mass Spectrometry for the Direct Analysis of Membrane Lipids in Microorganism Cells, University of Crete, 2018
- Georgia Panagou, Development of New Analytical Techniques of LC–ICP–MS for the Metaloproteomic Analysis of Environmental and Biological Samples, Department of Chemistry, University of Crete, 2021

- Sofia Grafanaki, Development and Application of Sonic Spray Ionization Sources for Mass Spectrometric Analysis of Environmental and Biological Samples, Department of Chemistry, University of Crete, 2021
- Development of mass spectrometric and nuclear magnetic resonance techniques for investigating the effect of Ni(II), As(V), and Se(VI) on lipid saturation in *Chlamydomonas reinhardtii* and *Chlorella sorokiniana*, Department of Chemistry, University of Crete, 2023

Undergraduate Research, (Supervisor)

- Examination of Water Quality of the Carstic System of the Agyia – Koufos Valley, Chania.
Kiriaki Mylona, Department of Natural Resources and the Environment, Technological and Educational Institute of Crete, 2003.
- Use of Carob for the Production of Electric Power by Microbial and Electrochemical Processes.
Maria Kominou, Department of Natural Resources and the Environment, Technological and Educational Institute of Crete, 2004.
- Contribution to the Water Management of the Agya Kyriaki Monastery Springs, Chania: Chemical and Microbial Study.
Dimitris Koutoulakis, Department of Natural Resources and the Environment, Technological and Educational Institute of Crete 2004.
- Determination of Phenolic Compounds in Environmental Samples.
Michalis Anastopoulos, Department of Natural Resources and the Environment, Technological and Educational Institute of Crete, 2004.
- Application of Photocatalytic Techniques on the Disinfection of Water and Processed Liquid Wastes.
Despina Riga, Department of Natural Resources and the Environment, Technological and Educational Institute of Crete, 2006.
- Study of Bioaccumulation of Heavy Metals in Mint Cultivated in Polluted Soil.
Eleni Kagiaftaki, Department of Natural Resources and the Environment, Technological and Educational Institute of Crete, 2007.
- Effects of Nickel on the Photosynthetic Alga *Chlamydomonas reinhardtii*. Maria Goniou, 2014.
- Accumulation of heavy metals in plants and leaves of bitter orange in urban areas. Kalliopi Krommyda, 2015
- Effects of heavy metals on photosynthetic microalga *Chlamydomonas reinhardtii*. Maria Bolanaki, 2016
- Development and validation of methods for the quality control of plant protection products with the techniques of gas and liquid chromatography. Kontomanolopoulou Georgia, 2023
- Correlation of the metal content of honey with its geographical and botanical origin. Kopaniari Maria-Eleni, 2023

Member:

Association of Greek Chemists
American Chemical Society
International Union for Research in Photosynthesis
Hellenic Society of Biochemistry and Molecular Biology

Publications:

1. A Hydrogen-Atom Abstraction Model for the Function of Y_Z^\bullet in Photosynthetic Oxygen Evolution.
C. W. Hoganson, **N. Lydakis-Simantiris**, X.-S. Tang, C. Tommos, K. Warncke, G. T. Babcock, B. A. Diner, J. McCracken, S. Styring.
1995, *Photosynthesis Research* 46, 177-184.
2. Tyrosyl Radicals in Enzyme Catalysis: Some Properties and a Focus on Photosynthetic Water Oxidation.
G. T. Babcock, M. Espe, C. W. Hoganson, **N. Lydakis-Simantiris**, J. McCracken, W. Shi, S. Styring, C. Tommos, K. Warncke.
1997, *Acta Chemica Scandinavica* 51, 533-540.
3. Kinetic Isotope Effects on the Reduction of the Y_Z^\bullet Radical in Oxygen Evolving and Tris-Washed Photosystem II Membranes by Time-Resolved EPR.
N. Lydakis-Simantiris, D. F. Ghanotakis and G. T. Babcock.
1997, *Biochim. Biophys. Acta* 1322, 129-140.
4. Kinetic and Spectroscopic Properties of the Y_Z^\bullet Radical in Ca^{2+} and Cl^- -depleted Photosystem II Preparations.
N. Lydakis-Simantiris, P. Dorlet, D. F. Ghanotakis and G. T. Babcock.
1998, *Biochemistry* 37, 6427-6435.
5. Manganese and Tyrosyl Radical Function in Photosynthetic Oxygen Evolution.
C. Tommos, C. W. Hoganson, M. Di Valentin, **N. Lydakis-Simantiris**, P. Dorlet, K. Westphal, H.-A. Chu, J. McCracken, and G. T. Babcock.
1998, *Current Opinion in Chemical Biology* 2, 244-252.
6. The Carboxyl-Terminal Tripeptide of the Manganese-Stabilizing Protein is Required for Quantitative Assembly into Photosystem II and for High Rates of Oxygen Evolution Activity.
S. D. Betts, **N. Lydakis-Simantiris**, J. R. Ross, and C. F. Yocum.
1998, *Biochemistry* 37, 14230-14236.
7. Manganese Stabilizing Protein of Photosystem II is a Thermostable, Natively Unfolded Polypeptide.
N. Lydakis-Simantiris, R. S. Hutchison, S. D. Betts, B. A. Barry, and C. F. Yocum.
1999, *Biochemistry* 38, 404-414.
8. Leucine 245 is α Critical Residue for Folding and Function of the Manganese Stabilizing Protein of Photosystem II.
N. Lydakis-Simantiris, S. D. Betts, and C. F. Yocum.
1999, *Biochemistry* 38, 15528-15535.
9. The Effects of Sr^{2+} -Substitution on the Reduction Rates of Y_Z in PSII Membranes-Evidence for Concerted Hydrogen-Atom Abstraction Transfer in Oxygen Evolution.
K. L. Westphal, **N. Lydakis-Simantiris**, R. I. Cukier, and G. T. Babcock.
2000, *Biochemistry* 39, 16220-16229.

10. N-terminus of the Photosystem II Manganese Stabilizing Protein: Effects of Sequence Elongation and Truncation.

H. Popelcova, M. M. Im, J. D'Auria, S. D. Betts, **N. Lydakis-Simantiris**, and C. F. Yocum.

2002, *Biochemistry* 41, 2702-2711.

11. Influence of Ammonium to Total Nitrogen Supply Ratio on Growth, Yield and Fruit Quality of Tomato Grown in a Closed Hydroponic System.

Akl, I. A., D. Savvas, N. Papadantonakis, **N. Lydakis-Simantiris**, and P. Kefalas.

2003, *European Journal of Horticultural Science*, 68, 204-211.

12. Effects of Silicon and Salinity on Fruit Yield and Quality of Tomato Grown Hydroponically.

A. Stamatakis, N. Papadantonakis, D. Savvas, **N. Lydakis-Simantiris**, and P. Kefalas.

Acta Horticulturae 609 (A. Pardossi, G. Serra, F. Tognoni eds), 2003: 141-147.

13. Novel Quality Control Methods in Conjunction with Chemometrics (Multivariate Analysis) for Detecting Honey Authenticity.

Arvanitoyannis, I., Chalhoub, C., Gotsiou, P., **Lydakis – Simantiris, N.**, and Kefalas, P.

2005, *Critical Reviews in Food Science and Nutrition* 45, 193-203.

14. Mutagenesis of Basic Residues R151 and R161 in Manganese – Stabilizing Protein of Photosystem II Causes Inefficient Binding of Chloride to the Oxygen – Evolving Complex.

H. Popelkova, S.D. Betts, **N. Lydakis-Simantiris**, M. M. Im, E. Swenson, and C. F. Yocum.

2006, *Biochemistry* 45, 3107-3115.

15. A Chemical and Microbiological Study of the Water of the Agyia Springs in Western Crete.

N. Lydakis – Simantiris, D. Pentari, E. Katsivela, D. Koutoulakis, V. Perdikatsis, and Aik. Pavlaki.

2006, *WSEAS Transactions on Environment and Development*, 6, 816 - 822.

16. Interactions Between Silicon and NaCl – Salinity in a Soilless Culture of Roses in Greenhouse.

D. Savvas, G. Gizas, G. Karras, **N. Lydakis-Simantiris**, G. Salahas, M.

Papadimitriou, N. Tsouka.

2007, *European Journal of Horticultural Science*, 72, 73-79.

17. Evaluation of Spatial Interpolation Techniques for Mapping Agricultural Topsoil Properties in Crete.

C. G. Karydas, I. Z. Gitas, E. G. Koutsogiannaki, **N. Lydakis-Simantiris**, and G. N. Silleos,

2009, *EARSel*, 8, 40-52.

18. Disinfection of spring water and secondary treated municipal wastewater by TiO₂ photocatalysis.

N. Lydakis-Simantiris, D. Riga, E. Katsivela, D. Mantzavinos, and N.P. Xekoukoulotakis,
2010, *Desalination*, 250, 351-355.

19. Size Distribution and Chemical Composition of Airborne Particles at Akrotiri Research Station, Crete, Greece.

Kopanakis, I., **Lydakis-Simantiris**, N., Katsivela, E., Pentari, D., Zampas, P., Mihalopoulos, N., and Lazaridis, M.,
2010, *Global Nest Journal*, 12, 54-62.

20. Physico-Chemical Characteristics of Particulate Matter in the Eastern Mediterranean.

I. Kopanakis, **N. Lydakis-Simantiris**, E. Katsivela, K. Eleftheriadis, D. Pentari, P. Zampas, N. Mihalopoulos, and M. Lazaridis.
2012, *Atmospheric Research*, 106, 93-107.

21. Geochemistry and Quality of the Groundwater from the Karstic and Coastal Aquifer of Geropotamos River Basin (North-Central Crete, Greece).

F. Sdao, S. Parisi, D. Kalisperi, S. Pascale, P. Soupios, **N. Lydakis-Simantiris**, and M. Kouli.
2012, *Environmental Earth Sciences*, 67, 1145-1153.

22. Bioconcentration of Cd and Ni in Various Tissues of Two Marine Bivalves Living in Different Habitats and Exposed to Heavily Polluted Seawater.

O. Chalkiadaki, M. Dassenakis, and **N. Lydakis-Simantiris**
2014, *Chemistry and Ecology*, DOI:10.1080/02757540.2014.917172.

23. Experimental Study of Cadmium Bioaccumulation in Three Mediterranean Marine Bivalve Species. Correlation with Selected Biomarkers

O. Chalkiadaki, M. Dassenakis, V. Paraskevopoulou, and **N. Lydakis-Simantiris**
2014, *Pure and Applied Chemistry*, 86, 1189–1204.

24. Cultivation of Medicinal and Aromatic Plants in Heavy Metal-Contaminated Soils.

N. Lydakis-Simantiris, M. Fabian, and M. Skoula
2016, *Global Nest Journal*, 18, 630–642.

25. Chemical and Physical Characteristics in Uncultivated Soils with Different Lithology in Semi-Arid Mediterranean Climate

D. Moraetis, **N. Lydakis – Simantiris**, D. Pentari, E. Manoutsoglou, C. Apostolaki, and V. Perdikatsis
2016, *Applied and Environmental Soil Science*, volume 2016, Article ID 3590548, 13 pages.

26. A Transient ElectroMagnetic (TEM) Method Survey in North-Central Coast of Crete, Greece: Evidence of Seawater Intrusion

D. Kalisperi, M. Kouli, F. Vallianatos, P. Soupios, S. Kershaw, **N. Lydakis-Simantiris**
2018, *Geosciences* 8, 107; doi:10.3390/geosciences8040107

27. Investigating the uptake of arsenate by *Chlamydomonas reinhardtii* cells and its effect on their lipid profile using Single Cell ICP-MS and Easy Ambient Sonic-Spray Ionization-MS

E. Mavrakakis, L. Mavrouidakis, **N. Lydakis-Simantiris**, S. Pergantis,
2019, *Analytical Chemistry*, 91, 9590-9598.

Δ28. Optimized extraction of polyphenols from olive leaves employing deep eutectic solvents composed of glycerol and amino acids: Application of chemometrics to a quantitative antioxidant activity study

H. Akli, S. Grigorakis, A. Kellil, S. Loupasaki, D. P. Makris, A. Calokerinos, A. Mati, N. Lydakis-Simantiris,
2022, *Appllied Sciences*, 12, 831-847. <https://doi.org/10.3390/app12020831>.

Δ29. A chip-based supersonic microfluidic nebulizer for efficient sample introduction 2 into Inductively Coupled Plasma – Mass Spectrometry

E. Mavrakakis, Z. Toprakcioglu, N. Lydakis-Simantiris, T. P. J. Knowles, S. A. Pergantis
2022, *Analytica Chimica Acta*, 1229, 340342.
<https://doi.org/10.1016/j.aca.2022.340342>

30. Effect of nitrogen source and supply level on water uptake, yield, and nutrient status of golden thistle (*Scolymus hispanicus L.*) grown in soilless system

D. M. Papadimitriou, I. N. Daliakopoulos, Nikos Lydakis-Simantiris, Ioanna Cheiladaki, Thrassyvoulos Manios and Dimitrios Savvas
2024, *Scientia Horticulturae*, 336, 113384.
<https://doi.org/10.1016/j.scienta.2024.113384>

31. Nickel-induced multimetal uptake in two microalgal species (*Chlorella sorokiniana* and *Chlamydomonas reinhardtii*) and its effect on growth and lipid unsaturation

G. Panagou, E. Stergiou, A. Spyros, N. Lydakis-Simantiris and S. A. Pergantis
2025, *Journal of Trace Elements in Medicine and Biology*, 87, 127578.
<https://doi.org/10.1016/j.jtemb.2024.127578>

32. Deveropment of a SEC-ICP-MS platform for multielement metallobiomolecule profiling and quantitation using a blood serum reference material.

G. Panagou, N. Lydakis-Simantiris and S. A. Pergantis
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39. Complex Dielectric Permittivity and Electrical Conductivity Measurements as a Diagnostic Tool for the Detection of Heavy Metals Adsorbed in Bentonite Samples.

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40. Comparative Study of the Accumulation of Ni in Different Tissues of Mussels and Soft Clams

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L. Raisi, O. Chalkiadaki, E. Katsivela, and N. Lydakis-Simantiris
MESAEP 17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Istambul, Turkey, September 28-October 1 2013.

48. Cadmium and Lead Accumulation and Metallothionein Synthesis in *Venus verrucosa* Exposed to Contaminated Seawater

O. Chalkiadaki, M. Dassenakis and N. Lydakis-Simantiris
MESAEP 17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Istambul, Turkey, September 28-October 1 2013.

49. Cadmium Accumulation and Protein Overexpression in Bivalves Exposed to Cadmium Contaminated Seawater

O. Chalkiadaki, N. Lydakis-Simantiris, and M. Dassenakis
40th CIESM Congress, Marseille, France, October 28-November 1 2013.

50. Geophysical and Geochemical Study of Geropotamos Aquifer in the North-central Coast of Crete, Greece

D. Kalisperi, P. Soupios, S. Kershaw, M. Kouli, P. Barsukov, F. Vallianatos, and N. Lydakis-Simantiris
20th European Meeting of Environmental and Engineering Geophysics, Athens, Greece, 14 - 18 Sept 2014.

51. Optimization of Biomarkers Quantification for the Assessment of Seawater Pollution

Nikos Lydakis-Simantiris, Olga Chalkiadaki and Manos Dassenakis
International Conference “9th Aegean Analytical Chemistry Days, (AACD2014)”, Chios, Greece, 29th Sept. – 3rd Oct. 2014.

52. Ni Accumulation in *Chlamydomonas Reinhardtii* and *Thalassiosira Weissflogii*

Nikos Lydakis-Simantiris, Maria Goniotaki, and Louiza Raisi
International Conference “9th Aegean Analytical Chemistry Days, (AACD2014)”, Chios, Greece, 29th Sept. – 3rd Oct. 2014.

53. Heavy Metals Accumulation in *Chlamydomonas Reinhardtii* and *Thalassiosira Weissflogii* Cells

L. Raisi, M. Goniotaki, and N. Lydakis-Simantiris
11th International Phytotechnologies Conference, Heraklion Crete, Greece, 30th Sept.
– 3rd Oct. 2014.

54. The use of Catalase and Metallothioneins as biomarkers of Pb exposure in two marine bivalves

O. Chalkiadaki, N. Lydakis-Simantiris, M. Dassenakis, V. Paraskevopoulou and A. Valavanidis

2nd International Ocean Research Conference, Barcelona, Spain, 17th – 21st November, 2014.

55. Lipid Peroxidation and Catalase induction in two marine bivalves exposed to cadmium polluted seawater

O. Chalkiadaki, N. Lydakis-Simantiris, and M. Dassenakis

2nd International Ocean Research Conference, Barcelona, Spain, 17th – 21st November, 2014.

56. Tissue specific, time and dose dependence impact of lead to a commercial marine Mediterranean organism

Chalkiadaki, O., Dassenakis, M., Lydakis-Simantiris, N. and Scoullou, M.

11th Panhellenic Symposium on Oceanography and Fisheries, Mytilene, Lesbos island, Greece, May 2015.

57. Effects of heavy metal exposure in glutathione S transferase activity in *Venus verrucosa* tissues

O. Chalkiadaki, N. Lydakis-Simantiris, M. Dassenakis

5th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), Mykonos, Greece, June 2015.

58. Heavy metal accumulation and effects in Marjoram plants cultivated in contaminated soils

Kyriakos Athanasiadis, Kalliopi Krommyda, Michael Papadimitriou, and Nikos Lydakis-Simantiris

6th European Bioremediation Conference, Chania, Crete, Greece, June 29 – July 2, 2015

59. The use of *Venus verrucosa* as a possible bioindicator for heavy metal pollution. A multi biomarker approach.

Olga Chalkiadaki, Nikos Lydakis-Simantiris, Manos Dassenakis

IUPAC-2015 45th World Chemistry Congress, Bexco, Busan, Korea, August 9-14 2015

60. Catalase in gills of *Venus verrucosa* exposed to Pb, Cd and Ni. Different metal different response?

Chalkiadaki, O., Lydakis-Simantiris, N., Dassenakis, M.

15th EuCheMS International Conference on Chemistry and the Environment, Leipzig, Germany, September 2015

61. Heavy Metal – Induced Proteins in *Chlamydomonas Reinhardtii* and *Thalassiosira Weissflogii* Cells

K. Krommyda, M. Goniotaki, L. Raisi, and N. Lydakis-Simantiris
Proceedings of the 14th International Conference on Environmental Science and Technology Rhodes, Greece, 3-5 September 2015

62. Evaluation of the impact of heavy metals in *Callista chione* using glutathione reductase as a potential biomarker of stress

Dassenakis Manos, Chalkiadaki Olga, Paraskevopoulou Vasiliki, Lydakis Simantiris Nikos

18th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, September 26 to 30, 2015 in Crete, Greece.

63. Glutathione reductase. A potential biomarker for the impact of heavy metal pollution in *Venus verrucosa*

O. Chalkiadaki, M. Dassenakis, V. Paraskevopoulou, and Nikos Lydakis-Simantiris
41st CIESM Conference, Kiel, Germany, September 12 – 16, 2016

64. Accumulation of heavy metals in unicellular photosynthetic algae. Maria Bolanaki, Louiza Raisi, Lydia Katsivela, Filippos Ververidis, Spyros Pergantis, Manos Dassenakis, Giorgos K. Papadopoulos, and Nikos Lydakis-Simantiris

5th International Conference on Industrial and Hazardous Waste Management, September 27-30, 2016, Chania, Crete, Greece

65. Cd, Pb and Ni accumulation in *Hypericum Perforatum* grown in heavy metal-contaminated soils

Nina Papafilippaki, Maria Bolanaki, Giannis Kasapakis, and Nikos Lydakis-Simantiris

5th International Conference on Industrial and Hazardous Waste Management, September 27-30, 2016, Chania, Crete, Greece

66. Heavy Metal Effects on the Green Alga *Chlamydomonas Reinhardtii*: a Gene Transcription Study

N. Lydakis-Simantiris, K. Athanasiadis, E. Prinsen, R. Blust, K. Vissenberg

18th International Conference on Heavy Metals in the Environment, (ICHMET2016), Ghent, Belgium, September 12-15, 2016

67. Elemental Analysis of *Chlamydomonas Reinhardtii* Cells Exposed to Cd, Ni, and Pb

N. Lydakis-Simantiris, M. Bolanaki, L. Raisi, E. Katsivela

10th International Conference “Aegean Analytical Chemistry Days”, Canakkale, Turkey, 29 September – 2 October 2016

68. Advances in single-cell ICP-MS for determining elemental distributions in cell populations

E. Mavrakakis, N. Lydakis-Simantiris, C. Stephan, R. Magarini, S. Pergantis

European Winter Conference on Plasma Spectrochemistry 2017, Sankt Anton, Austria
February 19 - 24, 2017

69. Determination of Lead (Pb) distribution in individual *Chlamydomonas reinhardtii* cells by means of Single-Cell -ICP-MS

E. Mavrakakis, N. Lydakis-Simantiris and S. Pergantis

European Winter Conference on Plasma Spectrochemistry 2017, Sankt Anton, Austria
February 19 - 24, 2017

70. Heavy Metals Accumulation in Plant Tissues of *Satureja cretica* and *Lathyrus ochrus* Grown in Contaminated Soils

K. Ben Jeddou, C. Vogiatzi, A. Stamatakis, S. Grigorakis, and N. Lydakis-Simantiris
15th International Conference on Environmental Science and Technology Rhodes,
Greece, 30/8 – 2/9/2017

71. Arsenic accumulation in *Chlamydomonas reinhardtii* cells grown in As-contaminated media

E. Mavrakis, L. Sakellaraki, M. Gaulier, A. Riaudel, S. Pergantis, and N. Lydakis-Simantiris
15th International Conference on Environmental Science and Technology Rhodes,
Greece, 30/8 – 2/9/2017

72. Heavy metal uptake from the green alga *Chlamydomonas reinhardtii*: Single and mix-metal exposure

K. Athanasiadis, V. Mubiana, R. Blust, K. Vissenberg, and N. Lydakis-Simantiris
15th International Conference on Environmental Science and Technology Rhodes,
Greece, 30/8 – 2/9/2017

73. Seasonal variation effect on essential oil content and composition of *Pelargonium graveolens* cultivated in Crete, Greece

K. Ben Jeddou, M. Jancheva, A. Benchennouf, S. Grigorakis, and N. Lydakis-Simantiris
International Conference Climate Changing Agriculture, Chania, Crete, Greece 29/8 –
2/9/2017

74. Investigating heavy metal (Pb, Cd, Ni and arsenic species) uptake by *Chlamydomonas reinhardtii* cells by means of Single-Cell ICP-MS

E. Mavrakis, N. Lydakis-Simantiris, C. Stephan, R. Magarini, S.A. Pergantis
10th International Conference on Instrumental Methods of Analysis, Modern Trends
and Applications, IMA2017, Heraklion, Crete, Greece, 17-21/9/2017

75. Desorption Easy Ambient Sonic-Spray Ionization Mass Spectrometry for Lipidomic Analysis of Cyanobacteria and Green Algae During Growth and Stress Conditions

L. Mavroudakos, N. Lydakis-Simantiris, S.A. Pergantis
ASMS Conference on Mass Spectrometry and Allied Topics 2018, San Diego,
California, June 2018

76. Essential Oil Profile and Antioxidant Activity of *Pelargonium graveolens* Cultivated in Crete, Greece

K. Ben Jeddou, A. Benchennouf, S. Grigorakis, N. Lydakis-Simantiris
11th International Conference “Aegean Analytical Chemistry Days”, Chania, Greece,
25-29 September 2018

77. Assessment of the Seasonal Variation of the Essential Oil Content and Composition of *Pelargonium graveolens* Cultivated in Crete, Greece

K. Ben Jeddou, A. Benchennouf, M. Jancheva, S. Grigorakis, N. Lydakis-Simantiris
11th International Conference “Aegean Analytical Chemistry Days”, Chania, Greece,
25-29 September 2018

78. Assessment of Heavy Metals Transportation and Accumulation in *Satureja cretica* and *Lathyrus ochrus*

K. Ben Jeddou, A. Benchennouf, C. Vogiatzi, A. Stamatakis, S. Grigorakis, N. Lydakis-Simantiris

11th International Conference “Aegean Analytical Chemistry Days”, Chania, Greece,
25-29 September 2018

79. Determination of Heavy Metal (Cd & As Species) Uptake by *Chlamydomonas reinhardtii* Cells by Means of Single-Cell ICP-MS Using Conventional and High Efficiency Introduction Systems

E. Mavrakakis, N. Lydakis-Simantiris, S. A. Pergantis

11th International Conference “Aegean Analytical Chemistry Days”, Chania, Greece,
25-29 September 2018

80. Desorption Sonic-Spray Ionization Mass Spectrometry (DeSSI-MS) for the Rapid Analysis of Membrane Lipids from Intact Microorganism Cells

L. Mavroudakakis, Th. Nazos, E.-A. Valsami, E.-V. Sakellarakis, N. Lydakis-Simantiris, D. F. Ghanotakis, S. A. Pergantis

11th International Conference “Aegean Analytical Chemistry Days”, Chania, Greece,
25-29 September 2018

81. Investigating Arsenate Uptake in *C. reinhardtii* cells using Single Cell ICP-MS and its Effect on Lipid Remodelling using Ambient MS

E. Mavrakakis, L. Mavroudakakis, N. Lydakis – Simantiris, S. Pergantis

Winterplasma19: European Winter Conference on Plasma Spectrochemistry 2019,
Pau, France, 3-8 February 2019

82. Low-Transition Temperature Mixtures Based on Amino Acids: Synthesis and Extraction Efficiency of Phenolics from Olive Mill by-Products

N. Lydakis-Simantiris, H. Akli, S. Grigorakis, S. Loupasaki, M. Abderrahmane, D. P. Makris

1st International Congress on Analytical and Bioanalytical Chemistry, Antalya, Turkey, 27-30 March 2019

83. Effect of heavy metals accumulation on the growth and essential oils content of Rose Geranium (*Pelargonium graveolens* L.)

E. Patrolea, T. Nikoli, S. Loupasaki, S. Grigorakis, N. Lydakis-Simantiris

16th International Conference on Environmental Science and Technology Rhodes, Greece, 4-7 September 2019

84. Selenium accumulation in unicellular photosynthetic algae *Chlamydomonas reinhardtii* and *Thalassiosira weissflogii* grown in Se-contaminated media

E. Zkeri, E. Mavrakakis, S. Pergantis, N. Lydakis-Simantiris

16th International Conference on Environmental Science and Technology Rhodes, Greece, 4-7 September 2019

85. Advancements and challenges for the determination of metals in individual cells using single cell inductively coupled plasma – mass spectrometry
E. Mavrakis, N. Lydakis-Simantiris, S. A. Pergantis
11th International Conference on Instrumental Methods of Analysis, Modern Trends and Applications, IMA2019, Ioannina, Greece, 22-25/9/2019

86. Zinc and Nickel Accumulation in Unicellular Photosynthetic Algae *Chlamydomonas reinhardtii* Grown in Metal-contaminated Media
E. Zkeri, E. Mavrakis, S. Pergantis, N. Lydakis-Simantiris
17th International Conference on Environmental Science and Technology Athens, Greece, 1-4 September 2021.

87. Selenate uptake by *Chlamydomonas reinhardtii* Algal Cells, its Transformation and its Effect on Membrane Lipid Profiles
E. Zkeri, E. Mavrakis, G. Panagou, S. Grafanaki, S. Pergantis, N. Lydakis-Simantiris
17th International Conference on Environmental Science and Technology Athens, Greece, 1-4 September 2021.

88. An optimized enzymatic hydrolysis of bovine whey protein with chymotrypsin, trypsin, and pepsin using a full factorial and a surface response methodology
H. Akli, S. Grigorakis, S. Scandar, S. Loupasaki, I. Livieratos, D. P. Makris, N. Lydakis-Simantiris, A. Mati
12th NIZO Dairy Conference, Innovations in Dairy Ingredients, 5-7 October 2021, Online, Elsevier Conferences.

89. Advances in single cell ICP-MS via chip-based microfluidics for cell sorting and nebulization
E. Mavrakis, E. Zkeri, N. Lydakis-Simantiris, Z. Toprakcioglu, T. P. J. Knowles, S. A. Pergantis
2022 Winter Conference on Plasma Spectrochemistry, January 17-20, 2022, Tucson, AZ, USA.

90. Impact of Ni (II) on growth, metal uptake, and lipid unsaturation of two microalgae species.
Panagou G., Stergiou E., Lydakis-Simantiris N. and Pergantis S. A.
12th International Conference “Aegean Analytical Chemistry Days”, Istanbul, Turkey, 19-22 October 2023.

91. Leaching of critical elements from red mud using carboxylic acids.
Pentari, D., Keravnopoulou, D., Partsalaki, E., Cheiladaki, I., and N. Lydakis-Simantiris.
4th Annual Meeting, Mediterranean Geosciences Union, Barcelona, Spain, 25-28 November 2024.

92. Nickel-induced multimetal uptake in two microalgal species.
Panagou, G., Stergiou, E., Lydakis-Simantiris, N., Spyros, A., and Pergantis, S.A.
19th International Conference on Environmental Science and Technology, Kos island, Greece, September 2025.

Summary Table for research/publishing activity:

Competitive research programmes	16
Other programmes	3
Principal Investigator	2
Publications in international journals	32
Publications in Conference Proceedings	29
Presentations in Conferences	92
Other publications	2
Book authorship	2 (1 with 2nd edition) (1 expected)
Teaching material	6
Book chapter	1
Translated books	5
Citations (Source: Scholar, 26/09/2025)	2064
h-index	24

Journals with my published research

JOURNAL	Impact factor
Acta Chemica Scandinavica (μετονομάστηκε σε Organic & Biomolecular Chemistry)	3,876
Analytica Chimica Acta	6,558
Analytical Chemistry	6,986
Applied and Environmental Soil Science	2,00
Applied Sciences	2,679
Atmospheric Research	5,369
BBA (bioenergetics)	3,991
Biochemistry	3,162
Chemistry and Ecology	2,11
Critical Reviews in Food Science and Nutrition	11,18
Current Opinion in Chemical Biology	8,822
Desalination	9,55
Environmental Earth Sciences	2,18
European Journal of Horticultural Science	1,55
Geosciences	2,68
Global Nest Journal	1,1
Journal of Analytical Atomic Spectrometry	3,1
Journal of Trace Elements in Medicine and Biology	3,6
Photosynthesis Research	3,573
Pure and Applied Chemistry	2,453
Scientia Horticulturae	4,3
Mean IF	4.58