

Mihalopoulos Nikolaos

Director of Institute for Environmental Research
and Sustainable Development (IERSD)/NOA and
Professor of Environmental Chemistry,
Department of Chemistry
University of Crete

CURRICULUM VITAE

APRIL 2018

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CV outline

Education:	Ph.D. Chemistry of Air Pollution and Environmental Physics, University of Paris 7, France, 4/1989 D.E.A in Chemistry of Pollution, University of Paris 7, France, 9/1985 B.S. of Chemistry, Department of Chemistry, University of Athens, Greece, 4/1984																						
Employment after the Ph.D. thesis:	<table border="0"> <tr> <td style="vertical-align: top;">2013-today:</td><td>Director Institute for Environmental Research and Sustainable Development (IERSD), National Observatory of Athens (NOA) and vice-President of NOA.</td></tr> <tr> <td style="vertical-align: top;">2003–today:</td><td>Professor of Environmental Chemistry, Department of Chemistry University of Crete, Heraklion, Greece</td></tr> <tr> <td style="vertical-align: top;">2011–today:</td><td>Visiting Pofessor Cyprus Institute, Cyprus</td></tr> <tr> <td style="vertical-align: top;">12/2010–3/2011:</td><td>Visiting Professor, University of Sapporo, Japan</td></tr> <tr> <td style="vertical-align: top;">1999–2003:</td><td>Associate Professor of Environmental Chemistry, Department of Chemistry, University of Crete, Heraklion, Greece</td></tr> <tr> <td style="vertical-align: top;">3/2002–7/2002:</td><td>Visiting Professor, Max-Planck Institute of Chemistry, Mainz, Germany.</td></tr> <tr> <td style="vertical-align: top;">1993–1999:</td><td>Assistant Professor of Environmental Chemistry, Department of Chemistry, University of Crete, Heraklion, Greece</td></tr> <tr> <td style="vertical-align: top;">11/1991–8/1993:</td><td>Military Service Laboratory of Spectroscopic Analysis of Fuels Air Force of Greece</td></tr> <tr> <td style="vertical-align: top;">2/1991–11/1991:</td><td>Research Scientist, Centre des Faibles Radioactivités, CNRS Gif-sur Yvette, France.</td></tr> <tr> <td style="vertical-align: top;">6/1989–1/1991:</td><td>Research Scientist, Physicalische Chemie, Bergische Universität, Wuppertal, Germany</td></tr> <tr> <td style="vertical-align: top;">4/1989–6/1989:</td><td>Research Scientist, Centre des Faibles Radioactivités, CNRS, Gif-sur-Yvette, France</td></tr> </table>	2013-today:	Director Institute for Environmental Research and Sustainable Development (IERSD), National Observatory of Athens (NOA) and vice-President of NOA.	2003–today:	Professor of Environmental Chemistry, Department of Chemistry University of Crete, Heraklion, Greece	2011–today:	Visiting Pofessor Cyprus Institute, Cyprus	12/2010–3/2011:	Visiting Professor, University of Sapporo, Japan	1999–2003:	Associate Professor of Environmental Chemistry, Department of Chemistry, University of Crete, Heraklion, Greece	3/2002–7/2002:	Visiting Professor, Max-Planck Institute of Chemistry, Mainz, Germany.	1993–1999:	Assistant Professor of Environmental Chemistry, Department of Chemistry, University of Crete, Heraklion, Greece	11/1991–8/1993:	Military Service Laboratory of Spectroscopic Analysis of Fuels Air Force of Greece	2/1991–11/1991:	Research Scientist, Centre des Faibles Radioactivités, CNRS Gif-sur Yvette, France.	6/1989–1/1991:	Research Scientist, Physicalische Chemie, Bergische Universität, Wuppertal, Germany	4/1989–6/1989:	Research Scientist, Centre des Faibles Radioactivités, CNRS, Gif-sur-Yvette, France
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Research Interest and Experience:	• Atmospheric chemistry and Physics with emphasis on the oxidation capacity of the atmosphere (both remote and polluted), physicochemical aerosol properties and their climatic role. • Global biogeochemical cycles of carbon, nitrogen, phosphorus and sulfur and their role on climate. • Air sea- exchange • Chemical kinetics • Environmental Analytical chemistry • Observations of key constituents of the atmosphere (greenhouse gases, aerosols).																						

• Trend analysis of long-term observations		
Administrative Experience:	2013-today: Director Institute for Environmental Research and Sustainable Development (IERSD), National Observatory of Athens (NOA). 2013-today: Vice-President of the National Observatory of Athens (NOA). 11-12/2016: Acting President of the National Observatory of Athens (NOA). 9/2010–12/2012: Vice-president of the department of Chemistry and president of the postgraduate studies committee of the department of Chemistry of the University of Crete. 9/2004–9/2006: President of the department of Chemistry 9/2004–6/2006: Member of the Senate of the University of Crete 6/2003–9/2004: Vice-president of the department of Chemistry and president of the postgraduate studies committee of the Department of Chemistry of the University of Crete. 2002–2009: Member of the research committee (ELKE, 7 members) of the University of Crete. 2/1996–6/1997: Member of the Senate of the University of Crete 9/1994–9/1996: Member of the undergraduate studies committee of the Department of Chemistry of the University of Crete.	
Teaching experience:	Since 1994 and up to date, Undergraduate and post graduate courses at the University of Crete and other Greek Universities and foreign Research Centers Advisor of 12 Post-docs, and supervision of 15 PhD, 36 MSc students and more than 60 undergraduate students for diploma thesis. Currently I am supervising 5 PhD and 2 MSc students. In addition I have acted as advisor for more than 30 PhD thesis and MSc degree students.	
Research experience:	Referee in 28 international scientific journals Participation in 45 Competitive Research Programs as PI or co-PI funded by EU (23) and National sources (22) with total amount for my team >7 M€. My milestone is the co-ordination of PANACEA, one of the 25 projects of the Greek Road Map for National Infrastructures, where for the first time all Greek Universities and Institutes working on atmospheric chemistry, physics and climate change will collaborate under a common umbrella.	
Publications:	260 publications in peer reviewed journals (1 Nature and 1 Science) and >100 in conference proceedings. > 10500 citations (>9000 third party citations) H-index=54 2 books and 1 monograph. (Sources: ISI/Scopus, April 2018)	
Participation in international conferences and	Invited talks: > 40 Participation at >200 international scientific conferences Contributed talks/posters: > 600 (500 with abstracts and 100 with	

workshops:	proceedings).
International recognition:	• Invited speaker at more than 40 international scientific conferences, at 4 of which as keynote speaker. The last 10 years, I am giving about 2 invited talks per year to Universities and Research Centers. • Member of the Editorial Board: Atmospheric Chemistry and Physics (ACP) http://www.atmos-chem-phys.org. (impact factor of 5.52). • Guest editor in 6 special issues of ACP: (Minos campaign, IGAC conference, Solar Eclipse, Pegasos, dust and its role on climate, Charmex) • Guest editor in a special issue of Journal of Marine Sciences (JMS, topic: Regional comparisons). • Regular referee of scientific articles (more than 200) in most of the international scientific journals of my discipline, • Reviewer for Proposals: 1) European Union (E.U.) 2) German Federal Ministry for Education and Research (BMBF), 3) General Secretary of Research and Technology (GSRT), 4) ANR-CNRS (France), 5) NSF (US), 6) NERC (UK), 7) ERC (EU) • Evaluator/ Examination of PhD thesis dissertations at non-Greek Universities: 1) University Paris VI, Pierre & Marie Curie (France; 3 times), 2) University Joseph Fourier, Grenoble (France; 2 times), 3) University Paris VII, Denis Diderot, (France, 4 times), 4) University of Helsinki, 5) University of Hamburg, 6) University of Lille • Evaluator/ Examination of Habilitations: 1) University of Bremen (Germany), 2) University Paris VII, Denis Diderot (France), 3) Mines de Douai (France) • Member and Chairman of the evaluation panel of NATO in the frame of the action ‘Science for Peace and Security, Environmental Security’ • Convener of more than 15 International Conferences (as member of the local organizing or scientific Committee). • President of the Scientific Organizing Committee of the International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Heraklion 2014. • Organizer of more than 10 International meetings (with up to 150 participants) and two International summer Schools (HAAR summer schools in Costa Navarino), in 2017 and 2018) • Co-organizer of the International Conference on climate Change in the frame of the EU project DARECLIMED Crete in May 2013 (see list of research projects). • Co-convener of a session on aerosols, gases and their climate impact in the Mediterranean at the European Geophysical Union (EGU) General Assembly in 2013, 2014, 2015, 2016, 2017 and 2018. • President of the Scientific Organizing Committee of the next International Aerosol Conference (IAC) to take place in Athens, in September 2022 (more than 1300 participants are expected). • National Representative at JRC (Joint Research Center) • Member of the National council for adaptation to climate change

- **Member (deputy)** of the National Scientific Council for Energy and Environment (TEΣ)

Prizes/Grants

- Foundation Onassis (Grant for PhD thesis)
- Foundation of Greek state scholarships (Grant for PhD thesis)
- EU grant (Marie-Curie) for post doctorate studies in Germany.
- Haagen-Smit Prize 2014 for highly cited work
- Ecopolis/Ecocity prizes: 2014 for IERSD work (as director), 2016 for my scientific achievements.

Member of associations:

- Secetaire of IARA (International AeRosol Association).
- Association of Greek Chemists
- Vice-president of HAAR, Hellenic Association of Aerosol Research, member of European Association of Aerosol Research which organises European Aerosol Conference (on a yearly basis) and International Aerosol Conference –every 4 years.
- European Geophysical Society

Personal details, education and professional experience

Name: Nikolaos MIHALOPOULOS

Born: April 1, 1961, Piraeus, Greece

Address: Institute for Environmental Research and Sustainable Development (IERSD), National Observatory of Athens (NOA), I. Metaxa & V. Pavlou str., Penteli, 15236, Athens.

Department of Chemistry
University of Crete,
Voutes University Campus
71003 Heraklion, Crete, Greece

Telephone: +30 210- 8109121/ +30 2810- 545062

E-mail: nmihalo@noa.gr/ mihalo@chemistry.uoc.gr

Education: Ph.D. Atmospheric Chemistry
University of Paris 7, France, April 1989

D.E.A Atmospheric Chemistry
University of Paris 7, France, September 1985

B.S. of Chemistry,
Department of Chemistry, University of Athens, Greece, April 1984

Employment after the Ph.D. thesis:

2013-today: Director Institute for Environmental Research and Sustainable Development (IERSD), National Observatory of Athens (NOA), and vice-President of NOA.

2003-today Professor of Environmental Chemistry,
Department of Chemistry University of Crete, Heraklion

1999 – 2003. Associate Professor of Environmental Chemistry,
Department of Chemistry University of Crete, Heraklion

1993-1999 Assistant Professor of Environmental Chemistry,
Department of Chemistry University of Crete, Heraklion

11/1991-8/1993 Military Service Laboratory of Spectroscopic Analysis of
Fuels Air Force of Greece

2/1991 - 11/1991 Research Scientist
Centre des Faibles Radioactivités, CNRS Gif-sur-Yvette,
France.

- | | |
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| 6/1989-1/1991 | Research Scientist
Physicalische Chemie, Bergische Universität, Wuppertal,
Germany |
| 4/1989-6/1989 | Research Scientist
Centre des Faibles Radioactivités, CNRS, Gif-sur-Yvette,
France |

Long-term visits in foreign Universities and Research centers

- | | |
|----------------|---|
| 2011–today: | Visiting Pofessor Cyprus Institute, Cyprus |
| 12/2010-3/2011 | Visiting Professor, University of Sapporo, Japan. |
| 3/2002-7/2002 | Visiting Professor, Max-Planck Institute of Chemistry, Mainz,
Germany. |
- Short visits (up to 1 month): Several visits at Bergische Universität, Wuppertal, 1995, 1996, 2001 (Germany) and Laboratoire des Sciences du Climat et de l' Environement, 1994, 1997, 1998, France).

Prizes/Grants:

- Foundation Onassis (Grant for PhD thesis)
- Foundation of Greek state scholarships (Grant for PhD thesis)
- EU grant (Marie-Curie) for post doctorate studies in Germany.
- Haagen-Smit Prize 2014 for highly cited work
- Ecopolis/Ecocity prizes: 2014 for IERSD work (as director), 2016 for my scientific achievements.

Member of associations:

- Secetaire of IARA (International AeRosol Association).
- Association of Greek Chemists
- Vice-president of HAAR, Hellenic Association of Aerosol Research, member of European Association of Aerosol Research which organises European Aerosol Conference (on a yearly basis) and International Aerosol Conference –every 4 years.
- European Geophysical Society

Foreign Languages:

Fluent in English and French. Knowledge of German

B. Research Experience

Research activities

- Atmospheric chemistry and Physics with emphasis on the oxidation capacity of the atmosphere (both remote and polluted), physicochemical aerosol properties and their climatic role.
- Global biogeochemical cycles of carbon, nitrogen, phosphorus and sulfur and their role on climate
- Air sea- exchange
- Chemical kinetics
- Environmental Analytical chemistry
- Observations of key constituents of the atmosphere (greenhouse gases, aerosols).
- Trend analysis of long-term observations
- Responsible scientist of Finokalia station

Finokalia is a unique remote sampling station on Crete Island, and is considered as a reference site for the E. Mediterranean atmosphere disposing the longest reliable data record of environmental parameters in the area. Finokalia is (or was) part of several networks (Accent network of excellence, CREATE, EUSAAR, ACTRIS), and an official EMEP site of Greece. On an annual basis Finokalia hosts numerous international campaigns under the co-ordination of Prof. N. Nihalopoulos.

Publications

Since 1987 I have published **260 articles** in peer reviewed journals (**1 Nature, 1 Science, 1 PNAS**) receiving more than **10500 citations (9000 excluding self-citations; H = 54; source Scopus April 2018)**. In about 80 among the 260, I am either the first or corresponding author and in additional 25 the first or corresponding author is either my doctorate or post doctorate coworker. My policy in the publications with my team is to put my name at the end of the author's list.

The last 10 years (since 2007) I have published 140 articles in peer reviewed journals (1 PNAS). In more than 35 I am either the first or corresponding author and in additional 15 the first or corresponding author is my doctorate or post doctorate coworker.

In addition:

- More than 100 conference proceedings
- More than 600 international conference abstracts
- 1 Book, 3 chapters in Books and 1 monograph
- More than 500 international conference abstracts
- More than 50 articles and interviews in local and national journals, TV channels and radio.
- H-index 54, more than 10500 citations (Scopus). Third party citations > 9000
- Since 2002-today, 12-22 articles/year and 800-1000 citations/year (about 40 citations/publication).
- **Book:** Jakubowski N, Mihalopoulos N., Mann S., Lehmann W., Speciation of Sulfur, Handbook of Elemental Speciation II, pp 378-408, Volume Editors: R. Cornelis et al., .Willey eds, 2004.

Participation in conference and workshops

- >40 invited talks and more than 600 contributions in international conferences (>500 with abstracts and >100 with conference proceedings).

Participation in Competitive Research Programs as PI or co-PI:

Since the beginning of my carrier (1993) I participated in 45 Competitive Research Programs as PI or co-PI with total amount for my team >7 M€.

My milestone is the co-ordination of PANACEA, one of the 25 projects of the Greek Road Map for National Infrastructures, where for the first time all Greek Universities and Institutes working on atmospheric chemistry and physics will collaborate under a common umbrella.

1. "Platon" Bilateral Scientific Collaboration between France and Greece; **PI**, 1994- 1996.
2. Bilateral collaboration between Greece and Germany; **PI**, 1994- 1996.
3. "Marathon" (Marine Atmosphere Oxidation Capacity Experiment), **PI**, EU, Environment (1996-1998): 95 KECU.
4. "Aerobic" (AEROsol formation from Biogenic Carbon), EU, Environment (1996-1998): 100 KECU.
5. "Meduse" (Mediterranean DUst Study Experiment), EU, Environment (1996-1998): 110 KECU.
6. "Biogest" (Biogas Emissions from Estuaries) EU, MAST (1996-1999): **PI**, 20 KECU.
7. "ESCAPE" (Entangled Sulfur and carbon cycles in Phaeocystis dominated Ecosystems) EU, MAST (1996-1999): **PI**, 18 KECU.
8. "Mater" (Mass transfer and ecosystem response) EU, MAST (1997-1999): **PI**, 30KECU.
9. ETERPS (Ministry of Environment) Characterization of the Chemical Composition of the Atmosphere in the East Mediterranean Area (1997-1999): 88 KECU.
10. "DOMAC" (Dimethylsulfide DMS: Oxidation Mechanism in Relation to Aerosols and Climate) Marine Atmosphere Oxidation Capacity Experiment), EU, Environment (1998-2000): **PI**, 75 KECU.
11. Training Mobility Research program EU March 1998-March 2000: For J. Sciare to perform his PhD Thesis in Greece: **PI**, 67 KECU.
12. "Environmental Science and Engineering-Post Graduate Studies Programme", Associate director, PI. E. Stephanou, ca. 400 K€, Ministry of Education and European Commission, 1998-2003.
13. "El-CID" (Evaluation of the Climatic Role of Dimethylsulfide DMS), EU, Environment (1999-2003): **PI**, 109 KECU.
14. "Sub-Aero" (Sub-grid Scale Investigations of Factors Determining the Occurrence of Ozone and Fine Particles), (2000-2002): **PI**, 20 K€.
15. Emission of Nitrogen Compounds (NH_4^+ , NO_3^- , N_2O and NO_x) from Waste water treatment stations, GSRT, (2002-2005), **PI**, 59K€.
16. "ADIOS" (Atmospheric Deposition and Impact of pollutants, key elements and nutrients on the Open Mediterranean Sea), EU, Environment (1999-2003): **PI**, 119 K€.
17. "Create" (Creating an aerosol database for Europe), EU, Environment (2002-2004): **PI**, 78 K€.
18. Oxidation Capacity of the Eastern Mediterranean Atmosphere, GSRT, (2002-2005), **PI**, 89K€.
19. Aerosols in various Indoor locations in Greece, GSRT, (2003-2006), **PI**, 59 K€.

20. Evaluation of the Climatic Impact of the Tropospheric Aerosols in the Mediterranean Area. (ECITAMA)-MEIF-CT-2005-009578, EU (2005-2007), **PI**, 140K€.
21. Organics over the Ocean Modifying Particles in both Hemispheres (OOMPH), EU (2005-2008), **PI**, 131K€.
22. European Supersites for Atmospheric Aerosol Research EUSAAR - Co 026140, EU (2006-2011), **PI**, 110K€.
23. SESAME: Southern European Seas, Assessing and Modelling Ecosystem Changes - Co 036949-2 (EU 2006-2011), **PI**, 65K€.
24. CIRCE - 036961 (integrated project), EU (2007-2011), **PI**, 150K€.
25. Atmospheric deposition of N and P and their role on seawater productivity (Iraklitos I, for PhD Thesis of Z. Markaki; 2002-2007), **PI**, 36K€.
26. Characterization of physical and chemical parameters controlling climatic role of aerosols in the Eastern Mediterranean atmosphere, Ministry of Education, 2004-2007, **PI**, 80 K€.
27. Organic substances in the atmosphere, GSRT (2005-2009); **PI**, 106K€.
28. Climatic role of aerosols above eastern Mediterranean. **PI**, 12 K€ (Greek-Turkish collaborative projects; 2007-2008).
29. Understanding the climatic role of aerosols in the Mediterranean by synergistic use of satellites and ground based stations, **PI**, 12 K€ (Greek-French collaborative projects; 2004-2006).
30. Chemical composition of aerosol above Greek and Romanian Cities. **PI**, 12 K€ (Greek-Romanian collaborative projects; 2006-2008).
31. Co- Investigator of the ECPL/UoC Contribution to the European financed project CITYZEN (megaCITY - Zoom for the Environment) (1/9/2008-31/8/2011) **Co-PI** 200 K€)
32. Role of Megacities in air quality of the Eastern Mediterranean, (Iraklitos II, for PhD Thesis of P. Zampas; 2010-2013), **PI**, 45K€.
33. Relation between chemical composition, optical and climatic parameters above Athens, (Iraklitos II, for PhD Thesis of E. Paraskevopoulou; 2010-2013), **PI**, 45K€.
34. Particulates Monitoring, Modeling and Management over Cyprus, PM3, EU-Life project (1/1/2011-31/12/2013), **PI**, 60K€.
35. DARECLIMED, Data Repositories and Computational Infrastructure for Environmental and Climate Studies in the Eastern Mediterranean, FP7-INFRASTRUCTURES-2010, 1/2/2011-31/1/2013, **PI**, 70,5K€.
36. ACTRIS, Aerosols, Clouds, and Trace gases Research Infrastructure Network ", FP7-INFRASTRUCTURES-2010, 1/4/2011-31/3/2015, **PI**, 329 K€.
37. PERSEUS, Policy-oriented marine Environmental Research for the Southern European Seas, FP7-Ocean, **PI**, 250 K€.
38. SO_PHY_PRO_CLIM_GR, Sources and physicochemical properties of fine and ultrafine aerosol particles that affect the regional climate of Greece, THALIS proposal, **EY**, 170K€.
39. ACTRIS 2, Aerosols, Clouds, and Trace gases Research Infrastructure Network ", FP7-INFRASTRUCTURES-2010, 1/5/2015-30/4/2018, **EY**, 550 K€.
40. "THESPIA-Foundation of synergistic and integrated methodologies and monitoring tools, management and forecasting of environmental Parameters and pressures", 2013-2015, **EY**, 1060 K€ (Institutional program).
41. SIEMENS: Study of factors affecting the field of Solar Radiation in Greece - Demonstration and implementation of short and medium-term forecast of Solar Energy, **EY**, 150 K€.(Institutional program).
42. IKY, Excellence Siemens, Aerosol pH in Athens: factors that play a role, seasonal and interannual variability and impact on the environment, 2015-2017, **EY**, 50 K€.

43. ACTRIS PPP, Aerosols, Clouds, and Trace gases, Preparatory Phase project, INFRADEV-02-2016, 2017-2019, **EY**, 160 K€.
44. THESPIA-2 Foundation of synergistic and integrated methodologies and monitoring tools, management and forecasting of environmental Parameters and pressures”, 2013-2015, **PI**, 760 K€ (Institutional program).
45. PANACEA. One of the 25 projects of the Greek Road Map for National Infrastructures, 2018-2021, **PI**, 4000 K€ (under negotiation with GSRT)

Other projects and grants

- Exchanges of scientists between National Greek Research Institute and the CNRS 1994-1997
- Program of support of young researchers at the University of Crete (ELKE; 1994 and 1996).
- DAAD (German State) grant for 3 months to perform research in a German laboratory (July-September 1997).
- “PAUR II” (Photochemical Activity and solar Ultraviolet Radiation), EU, Environment (1998-2000): 8 KECU.

C. Administrative/ Organizational/ Coordinating experience

- 2013-today: Director Institute for Environmental Research and Sustainable Development (IERSD), National Observatory of Athens (NOA) and Vice-President of the National Observatory of Athens (NOA).
- 11-12/2016: Acting President of the National Observatory of Athens (NOA).
My achievements during my first term at IERSD are summarized at the following three graphs (figure 1, 2, 3) depicting the year to year variability in publications, citations and funding during my term compared to previous years. Despite the financial crisis and the decrease in personnel, IERSD presents an increase in publications and citations (figures 1 and 2) during the 2014-2017 period compared to 2008-2013 by 50% and 270% respectively. Similarly an increase in funding during the last 3 years (2013-2016) compared to (2008-2012 period) by more than 60% can be seen (figure 3). Note that 2017 was the best year for IERSD in terms of funding for the last 10 years and perspectives for 2018 are even better.
More details about the 4 first years of my term can be found at the document presented during my evaluation by the personnel and resulted to a score of 3,7/4 (average) and 4/5(median).
- 9/2010-12/2012: Vice-president of the Department of Chemistry and President of the post graduate studies committee of the Department of Chemistry of the University of Crete.
- 2009-2010: Member of the Undergraduate studies of the Department of Chemistry of the University of Crete.
- **9/2004-9/2006: President of the Department of Chemistry, University of Crete:** During my term as President of the Chemistry Department, the construction of the new building of the Department was completed and the scientific infrastructure and all activities of the Department moved to the new location, at the University Campus of Voutes. When my term as President started, the new building was at a starting stage and its construction partly frozen. In coordination with the Rector of the University and relevant services, 2M€ were allocated at the University and were dedicated to the completion of the construction works of the Chemistry Department. An additional 1.5M€ enabled the purchase of new, complementary to the existing, infrastructure to appropriately furnish and equip the building, for all educational and research activities (laboratory benches, chemical exhaust evacuation systems etc) and the transport of the entire pre-existing research infrastructure from the old building to the new one. The Chemistry Department was fully operational in the new building at Voutes University Campus, on January 2006. Early 2006 the first oath-taking of the graduating students of the Department took place in the pretty new large amphitheater of the new building, putting the finishing touch to a project and realizing a vision that started a decade ago.
- 6/2003-9/2004: Vice-President of the Department of Chemistry, University of Crete and President of the Committee for postgraduate studies of the Department of Chemistry, University of Crete.
- **2002-2009: Member of the Research Account of the University of Crete (ELKE, 7-members administrative Committee).** The 7 member Committee manages the

scientific budget of the University and draws its research strategy. During this period ELKE developed from a deficit of 500K€ to a benefit of 5000K€.

- 2/1996-6/1997 and 9/2004-6/2006: Member of the Senate of the University of Crete.
- 9/1994-9/1996: Member of the Undergraduate studies of the Department of Chemistry of the University of Crete.
- Since 1998: Advisor Professor for undergraduate students of the Chemistry Department of the University of Crete.

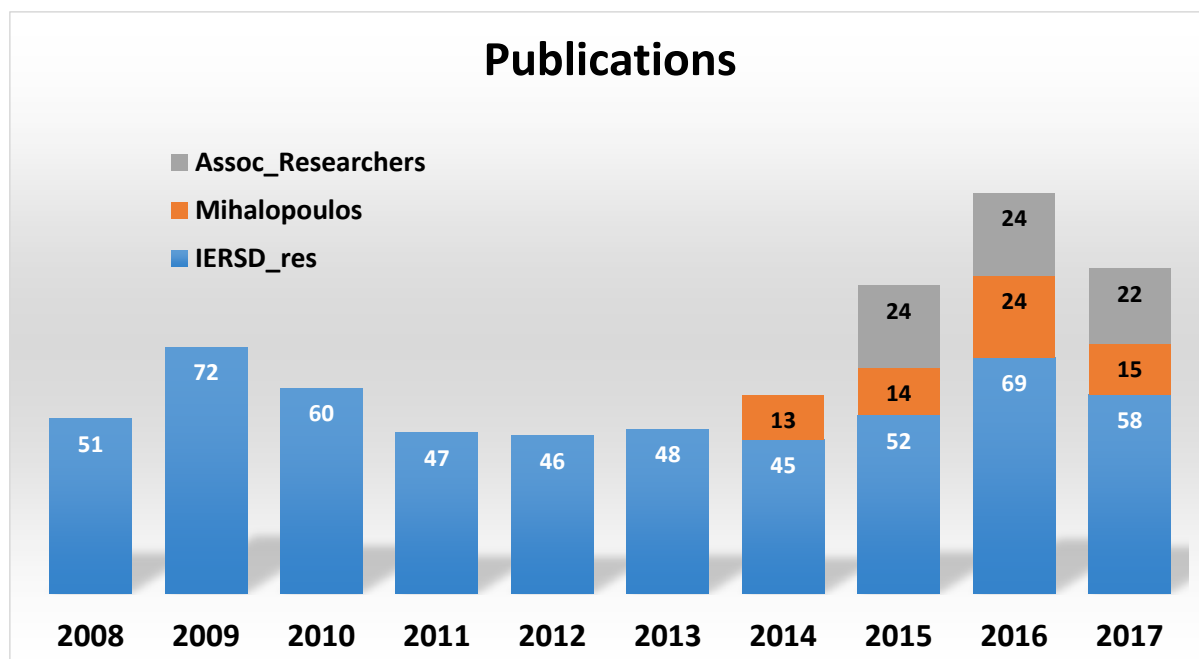


Figure 1: Variability of the IERSD publications (2008-2017). The contribution of the director and the associate researchers is depicted separately.

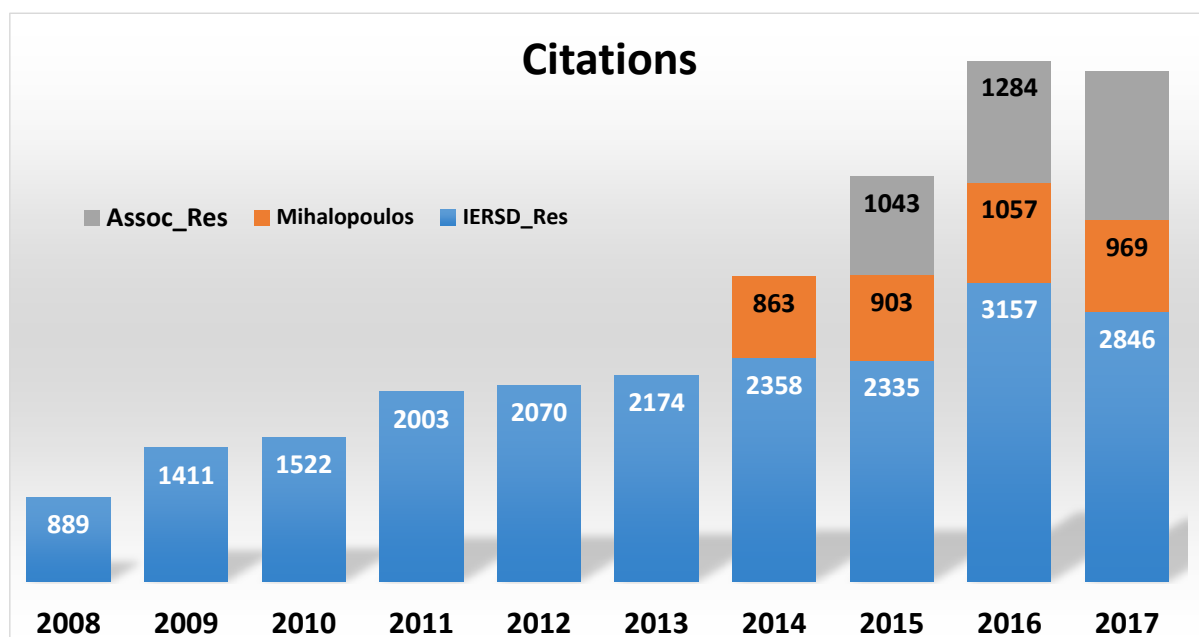


Figure 2: Variability of the IERSD citations (2008-2017). The contribution of the director and the associate researchers is depicted separately.

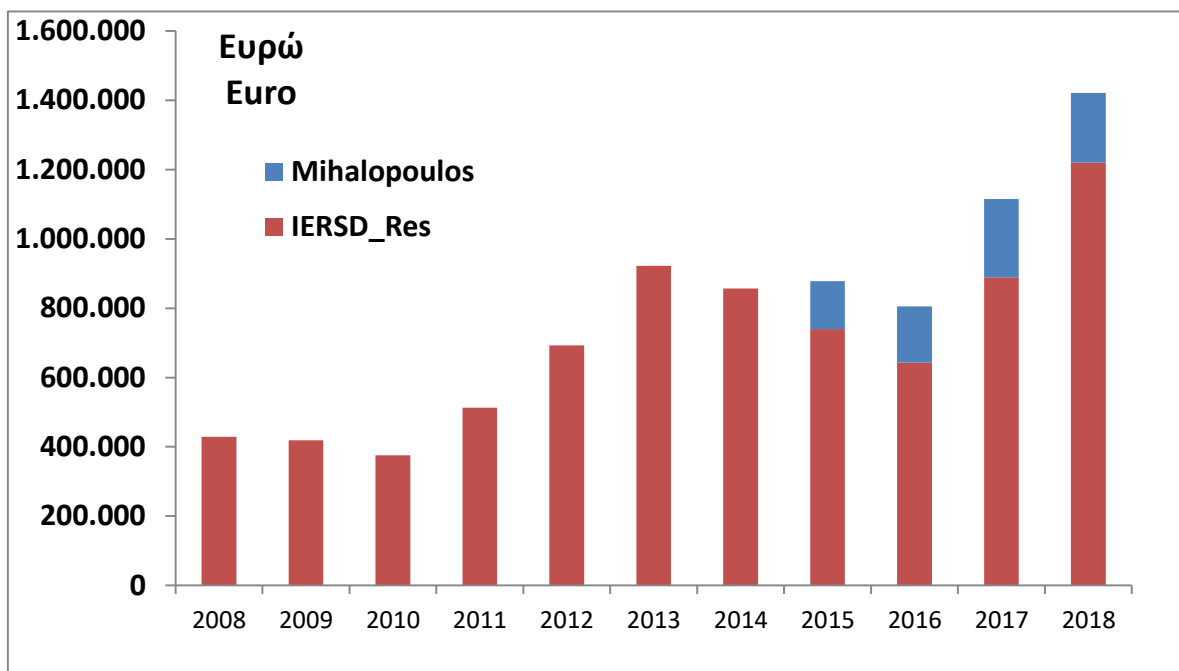


Figure 3: Variability of the IERSD funds (2008-2017). The contribution of the director and researchers is depicted separately. Note: Institutional funds (Kripis I, II and Siemens) as well as projects with participation of IERSD researchers without being PI or Co-PI (e.g BEYOND, GEO-CRADLE) are not considered.

D. Teaching experience

I: Lecturing.

- Instrumental techniques in Analytical Chemistry (Undergraduate students; 4h/week continuous since 1994).
- Atmospheric Chemistry (Undergraduate students; 3h/week continuous since 1994).
- Quantitative and qualitative chemistry ((Undergraduate students; 4h/week, 2010).
- Responsible for the laboratory of Instrumental Analytical Chemistry (Undergraduate students; since 1996).
- Environmental Analytical Chemistry (Chromatographic techniques; Post-graduate students; continuous since 1998).
- Environmental Analytical Chemistry (Trace metals in the Environment; Post-graduate students; continuous since 2008).
- Training in Environmental Analytical Chemistry (Post-graduate students; continuous since 1998).

Post graduate courses at Greek Universities and foreign Research Centers.

- Atmospheric Chemistry at the University of Athens and Patras for Master students (in 1995, 1997, 2007, 2009, 2014, 2015, 2016, 2017 and 2018).
- Atmospheric Chemistry for PhD students at Cyprus Institute (2012, 2013, 2014, 2015, 2016, 2017, 2018).

II: PhD and Master Theses supervising .

Advisor of 12 Post-docs and supervision of 15 PhD, 36 MSc students and more than 60 undergraduate students for diploma thesis. Currently I am supervising 5 PhD and 2 MSc students. In addition I have acted as advisor for more than 30 PhD thesis and MSc degree students.

A: Master Students

NAME	
Pakioufaki	Vasileia
Skoulikari	Emmanouella
Violaki	Kalliopi
Kristallas	Apostolos
Psaroudaki	Antonia
Giakoumaki	Kondulia
Mara	Paraskevi
Kassotaki	Eleftheria
Pilitsidis	Spiros
Mesarchaki	Evridiki
Theodosi	Christina
Kalivitis	Nikolaos
Zarmpas	Pavlos
Babasakalis	Paraskevas

Xylouri	Alexandra
Markaki	Zambia
Liakakou	Eleni
Bardouki	Haido
Economou	Konstantina
Perakis	Lazaros
Koulouri	Evangelia
Poulakis	Emmanouil
Smouliwtis	Dimitrios
Antoniou	Maria
Kokotos	Athanasios
Vardavas	Alexandros
Stavroulas	Iasonas
Bairamis	Antonios
Koulaki	Fotini
Mitsotaki	Anna
Tsagaraki	Maria
Fourtziou	Luciana
Variakaki	Evanthia
Panopoulou	Anastasia
Konstantinou	Andreas
Tsiorda	Irini

B: PhD Students

NAME	
Sciare*	Jean
Bougiatioti	Aikaterina
Baboukas	Evangellos
Kalivitis	Nikolaos
Kouvarakis	Giorgos
Violaki	Kalliopi
Markaki	Zambia
Liakakou	Eleni
Bardouki	Haido
Mara**	Paraskevi
Theodosi	Christina
Zarmpas	Pavlos
Paraskevopoulou	Despoina
Nicolaou	Panagiota
Gratsea	Mirto
Stavroulas	Iasonas
Tsagaraki	Maria
Panopoulou	Anastasia
Tsiorda	Irini
Kalkavouras	Panagiotis

*: Part of his PhD was performed in Greece and I acted as his PhD co-director with Dr. B.C. Nguyen

** : Co-direction with Professor K. Emeis (Hamburg, University).

C: Post-Doctorate coworkers

NAME		Duration
Bougiatioti	Aikaterina	2009-2012, 2015-2017
Kalivitis	Nikolaos	2009-2010 2013-2017
Kouvarakis	Giorgos	2002-2006
Violaki	Kalliopi	2009-2017
Markaki	Zambia	2008
Liakakou	Eleni	2007
Gerasopoulos	Evangelos	2005-2007
Arsene	Cecilia	2007-2009
Theodosi	Christina	2011-2018
Zarmpas	Pavlos	2015-2018
Paraskevopoulou	Despoina	2015-2018

III. Major contributions to the early careers of excellent researchers;

As Professor of the University of Crete I supervised (as PI) 12 Post-doctorate, 16 PhD, 36 Master students and more than 60 undergraduate students for their diploma work. **I am proud for all my coworkers but here I mention the name of few for which I had major contribution in their excellent career.**

- 1) **Prof. Dr. Jean Sciare** (research Director at LSCE France and actually Professor and EEWRC director at Cyprus institute). I acted via a EU grant (3/1998-3/200) as his PhD co-advisor.
- 2) **Prof. Dr. Vrekoussis Mihalis**, Professor at Bremen University (DE). Mihalis performed his PhD in the frame of a GRST grant (PENED) for which I was the PI (2002-2005).
- 3) **Dr. E. Gerasopoulos** (Research Director at NOA). Vangelis was my Post-doctorate collaborator (2004-2007) under a research program funded by the Ministry of education (Pythagoras) for which I was the PI.
- 4) **Prof. Dr. Mustafa Kocak** (Professor at METU-Turkey). Mustafa was a doctorate and then a Post-doctorate collaborator (2006 and 2009 respectively) under an EU Project (CITYZEN) for which I was the PI.
- 5) **Prof. Dr. C. Arsene** (Professor at Iasi, Romania) was a Post-doctorate collaborator (2005-2007) under a Marie-Curie grant (2005-2007) for which I was the PI.
- 6) **Dr. E. Liakakou** (Associate Researcher at NOA). Eleni performed her Master and PhD under my guidance in the frame of a GRST grant (PENED) for which I was the PI (2002-2005).

E. International recognition

- > 10500 citations in the international literature.
- > **9000 third-party citations** (without the references from collaborators and self-citations). The detailed list of publications is provided in section (F) below.
- **Invited speaker** at more than 40 international scientific conferences, at 4 of which as **keynote speaker**. The last 10 years, I am giving about 2 invited talks per year to Universities and Research Centers. A list with selected presentations is provided in section F.
- Member of the **Editorial Board**: Atmospheric Chemistry and Physics (ACP) <http://www.atmos-chem-phys.org>.
ACP is one of the official international scientific peer –reviewed journals of the European Geosciences Union, and the most reliable scientific journal of atmospheric science in Europe (since 2005) with an **impact factor of 5.52**.
- **Guest editor** in 6 special issues of ACP: (Minos campaign, IGAC conference, Solar Eclipse, Pegasos, dust and its role on climate, Charmex)
- **Guest editor** in a special issue of Journal of Marine Sciences (JMS, topic: Regional comparisons).

Regular **referee** of scientific articles (more than 200) in most of the international scientific journal of my discipline as well as for scientific monographs, a non exhaustive list is given below:

- PNAS
- Atmospheric Environment
- Geophysical Research Letters
- Journal of the Air and Waste Management Association
- Marine Chemistry
- Tellus
- Journal of Geophysical Research.
- Chemosphere
- Water, Air and Soil Pollution
- Oceanologica Acta
- Aquatic Sciences (AS)
- Canadian Journal of Fisheries & Aquatic Sciences
- Journal of Arid Environment
- Environment International
- Science of the total Environment
- Journal of Atmospheric Chemistry
- Atmospheric research
- Atmospheric Chemistry and Physics
- Environmental Science and technology
- Environmental Monitoring and Assessment.

Referee/Evaluator of research projects submitted for financial support to national and international organizations:

- 1) European Union (E.U.) DGXII “Environment” & “MAST “Programmes,
- 2) German Federal Ministry for Education and Research (BMBF),
- 3) General Secretary for Research and Technology (GRST),
- 4) ANR-CNRS (France),
- 5) NSF (US),

6) NERC (UK).

7) ERC (EU)

- Evaluator/ Examination of PhD thesis dissertations at non-Greek Universities:
 - 1) University Paris VI, Pierre & Marie Curie (France; 3 times)
 - 2) University Joseph Fourier, Grenoble (France; 2 times)
 - 3) University Paris VII, Denis Diderot, (France, 4 times)
 - 4) University of Helsinki
 - 5) University of Hamburg
- Evaluator/ Examination of Habilitations:
 - University of Bremen (Germany)
 - University Paris VII, Denis Diderot (France)
 - Mines de Douai (France)
- **Member and Chairman** of the evaluation panel of NATO in the frame of the action ‘Science for Peace and Security, Environmental Security’. First invitation as evaluator was in 2004, then a year after he served as vice-chair of the panel and in 2006 as Chairman.
- **Convener** of 15 International Conferences (as member of the organizing scientific Committee).
- **President** of the Scientific Organizing Committee of the Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP), Crete, May 2014.
- **Organizer** of more than 10 International meetings (with up to 150 participants) and two International summer Schools (HAAR summer schools in Costa Navarino), in May 2017 and June 2018)
- **Co-organizer** of the International Conference on climate Change in the frame of the EU project DARECLIMED Crete in May 2013 (see list of research projects).
- **Co-convener** of a scientific session on aerosols and their climate impact in the Mediterranean at the European Geophysical Union (EGU) General Assembly in 2013, 2014, 2015, 2016, 2017, 2018.
- **President** of the Scientific Organizing Committee of the next International Aerosol Conference (IAC) to take place in Athens, in September 2022 (more than 1300 participants are expected).
- **National Representative** at JRC (Joint Research Center)
- **Member** of the National council for adaptation to climate change
- **Member (deputy)** of the National Scientific Council for Energy and Environment (TEΣ)

International and National Collaborations.

Collaboration in the frame of research projects and student exchanges with the following Greek and International Institutes and Universities.

Greece:

- National Technical University of Athens, Department of Chemical Engineering, Prof., A. Chaloulakou; General Department Prof. A. Papayiannis.
- Foundation for Research and Technology, Hellas (FORTH), Institute of Chemical Engineering Sciences (ICE-HT) Prof. S. Pandis

- University of Patras, Department of Chemical Engineering,, Prof. S. Pandis, Department of Chemistry, Prof. S. Glavas
- Aristotle University of Thessaloniki, Physics Department, Profs. A. Bais, D. Balis, D. Melas, Geology Department, Prof. P. Zanis.
- National and Kapodestrian University of Athens, Department of Physics, Profs. G. Kallos, M. Tombrou.
- University of Ioannina, Prof. N. Hatzianastassiou
- Technical University of Crete, Prof. M. Lazaridis
- University of the Aegean Profs. Ch. Pilinis
- Academy of Athens Prof. Ch. Zerefos
- Demokritos National Center for Scientific Research: Dr. K. Eleftheriadis
- Hellenic Center for Marine Research HCMR, Drs, E. Papathanassiou, A. Gogou, G. Petihakis.

International Collaborations:

- Max Planck for Chemistry, Mainz, (Germany), Profs. P. Crutzen, J. Lelieveld.
- CNRS (France), Drs S. Belviso, V. Gros
- CEA (France), Dr, F. Dulac
- University Paris VI, Pierre & Marie Curie, (France), Dr., M.D. Loye-Pilot
- University Joseph Fourier, Grenoble, (France), Drs., P.Laj, M. Legrand
- University Paris VII, Denis Diderot, (France), Drs. R. Losno, K. Desboeufs.
- University of Helsinki (Finland), Profs., M. Kulmala, V.M. Kerminen
- University of Hamburg (Germany), Prof., K. Emeis
- University of Bremen (Germany), Prof., J. Burrows, Prof. M. Vrekoussis
- Institute of Tropospheric Chemistry (Leipzig, Germany), Prof., A. Widensholer
- Paul Scherrer Institute, (Switzerland), Prof, Urs Baltensperger
- Istituto di Scienze dell'Atmosfera e del Clima, (Italy), Drs., Sandro Fuzzi, Cristina Facchini
- University of Leeds, (U.K.), Prof. M. Krom
- School of Earth and Atmospheric Sciences, Georgia Institute of Technology, (US), Prof. A. Nenes
- Sapporo University, Institute of Low Temperature, (Japan), Prof. K. Kawamura
- Cyprus Institute, (Cyprus), Prof. J. Sciare
- University of Oslo, (Norway), Dr. M. Gauss
- Bergische Universität, Wuppertal, (Germany), Prof. K.H. Becker, Dr. I. Barnes.
- Ispra (Italy), Drs. J.P. Putaud, F. Dentener.
- Middle East Technical University, METU, (Turkey), Prof. M. Kocak.
- Israel Oceanographic and Limnological Research, (Israel), Prof. H. Barak.
- School of Geography, Earth and Environmental Sciences, University of Plymouth, UK, Dr. M. Nimmo.

F. Publication list

PUBLICATIONS IN PEER-REVIEWED JOURNALS

Since 1987 I have published 260 articles in peer reviewed journals (1 Nature, 1 Science, 1 PNAS) receiving more than 10500 citations (>9000 excluding self-citations; H = 54; source Scopus April 2018). In about 80 among these, I am either the first or corresponding author and in additional 25 the first or corresponding author is either my doctorate or post doctorate coworker. My policy in the publications with my team is to put my name at the end of the author's list.

The last 10 years (since 2007) I have published 140 articles in peer reviewed journals (1 PNAS). In more than 35 I am either the first or corresponding author and in additional 15 the first or corresponding author is my doctorate or post doctorate coworker.

Below is the complete list of publications. * = **corresponding author**

1. Belviso S., Mihalopoulos N., Nguyen B.C., The supersaturation of carbonyl sulfide (OCS) in rain waters, Atmos. Environ., 21, 1363-1367, 1987.
2. Nguyen B.C., Belviso S., Mihalopoulos N., Gostan J., Nival P. Dimethylsulfide production during natural phytoplanktonic blooms, Marine Chemistry, 24, 133-141, 1988.
3. Mihalopoulos N., Bonsang B., Nguyen B.C., Kanakidou M., Belviso S. Field observations of carbonyl sulfide deficit near the ground: Possible implication of vegetation, Atmos. Environ., 10, 2159-2166, 1989.
4. Nguyen B.C., Mihalopoulos N., Belviso S. Seasonal variation of atmospheric dimethylsulfide at Amsterdam island in the southern Indian ocean, J. Atmos. Chem., 11, 123-143, 1990.
5. Jean-Baptiste P., Belviso S., Alaux G., Nguyen B.C., Mihalopoulos N. 3He and methane in the Gulf of Aden, Geochim. Cosmochim. Acta, 54, 111-116, 1990.
6. Belviso S., Kim S.K., Rassoulzadegan F., Krajka B., Nguyen B.C., Mihalopoulos N., P. Buat-Menard. Production of dimethylsulfonium propionate (DMSP) and dimethylsulfide (DMS) by the microbial food web. Limnol. Oceanogr., 35, 1810-1821, 1990.
7. Mihalopoulos N., Putaud J.P., Nguyen B.C., Belviso S. Annual variation of atmospheric carbonyl sulfide in the marine atmosphere in the southern Indian Ocean, J. Atmos. Chem., 13, 73-82, 1991.
8. Gaudry A., Kanakidou M., Mihalopoulos N., Bonsang B., Bonsang G., Monfray P., Tymen R., Nguyen B.C. Atmospheric trace compounds at a European coastal site: Application to CO₂, CH₄ and COS fluxes determinations, Atmos. Environ., 26A, 145-157, 1992.
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10. Mihalopoulos N., Nguyen B.C., Boissard C., Campin J.M., Putaud J.P., Belviso S., Barnes

I., Becker K.H. Field study of Dimethylsulfide oxidation in the boundary layer: Variation of Dimethylsulfide, Methanesulfonic acid, Sulfur dioxide, non-sea-salt-sulfate and Aitken Nuclei at a coastal site, J. Atmos. Chem., 14, 459-477, 1992.

11. Mihalopoulos N., Barnes I., Becker K.H. Infrared Absorption spectra and integrated band intensities for gaseous methanesulphonic acid (MSA), Atmos. Environ., 26A, 807-812, 1992.

12. Nguyen B.C., Mihalopoulos N., Gaudry A., Putaud J.P., Gallet L., Keene W.C., Galloway J.N., Covariations in oceanic dimethylsulfide its oxidation products and rain acidity at Amsterdam island in the southern Indian ocean, J. Atmos. Chem., 15, 39-53, 1992.

13. Putaud J.P., Mihalopoulos N., Nguyen B.C., J.M. Campin, Belviso S. Seasonal variation of atmospheric sulfur dioxide and dimethyl sulfide concentrations at Amsterdam island in the Southern Indian Ocean, J. Atmos. Chem., 15A, 117-131, 1992.

14. Mihalopoulos N., Nguyen B.C., Putaud J.P., Belviso S. The oceanic source of carbonyl sulfide (COS), Atmos. Environ., 26A, 1383-1394, 1992.

15. Mihalopoulos N., Putaud J.P., Nguyen B.C., Seasonal variation of methanesulfonic acid in precipitation at Amsterdam Island in the Southern Indian Ocean. Atmos. Environ., 27A, 2069-2073, 1993.

16. Putaud J.P., Belviso S., Nguyen B.C., Mihalopoulos N., Dimethylsulfide, aerosol and condensation nuclei over the Tropical Northeastern Atlantic Ocean, J. Geophys. Res., 98, 14863-14871, 1993.

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18. Nguyen B.C., Putaud J.P., Mihalopoulos N., Bonsang B., CH₄ and CO emissions from rice straw burning in Southeast Asia. J. Environmental Monitoring and Assessment, 31, 131-137, 1994.

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20. Nguyen B.C., Mihalopoulos N., Putaud J.P., Bonsang B., Carbonyl sulfide emissions from biomass burning in tropics. J. Atmos. Chem. 22, 55-65, 1995.

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22. Sciare J., Baboukas E., Hancy R., N. Mihalopoulos*, Nguyen B.C., Seasonal variation of dimethylsulfoxide in rainwater at Amsterdam Island : Implications for the Biogenic Sulfur cycle. J. Atmos. Chem. 30, 229-240, 1998.

23. Kavouras I.G., Mihalopoulos N., Stephanou E.G., Formation of atmospheric particles from organic acids produced by forests, Nature, 395, 683-686, 1998.

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initiated oxidation of DMS in the presence of NO_x, Atmos. Environ., 33, 25-35, 1999.

25. Kavouras I.G., Mihalopoulos N., Stephanou E.G., Formation and gas/particle partitioning of monoterpenes photo-oxidation products over forests, Geophys. Res. Letters, 26, 55-58, 1999.

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27. Sciare J., N. Mihalopoulos*, and Nguyen B.C.. Summer-time seawater concentrations of dimethylsulfide in the western Indian Ocean: Reconciliation of fluxes and spatial variability with long-term atmospheric observations. J. Atmos. Chem. 32, 357-373, 1999.

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the boundary layer above the Aegean Sea (Eastern Mediterranean), *J. Geophys. Res.*, 107, 8137, 10.1029/2000JD000081, 2002.

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PRESENTATIONS IN CONFERENCES:

A: INVITED TALKS (selected)

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2. Mihalopoulos N., (INVITED TALK) On the importance of atmospheric deposition of N and P species in the productivity of sea water: The Mediterranean case., CERC3 Young Chemist Workshop on Atmospheric Chemistry and Particulate Matter, Denmark, June 3-6, 2002.
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5. Mihalopoulos N., (INVITED TALK), Long-range transport of pollutants above Mediterranean: Implications for air quality and regional climate, "International Conference on Atmospheric Pollution", 21-25 February 2004, Dubai.
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7. Mihalopoulos N., (INVITED TALK), Αιωρούμενα σωματίδια στην ατμόσφαιρα: Πηγές, επίπεδα, χημική σύσταση. Η Ελληνική «εμπειρία», 15ο ΠΑΝΕΛΛΗΝΙΟ ΠΝΕΥΜΟΝΟΛΟΓΙΚΟ ΣΥΝΕΔΡΙΟ, 1-4 Νοεμβρίου 2006, Κρήτη.
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9. Mihalopoulos N., (INVITED TALK), Biogeochemical Nitrogen cycle, Euroceans Summer School, Ankara, 16-21/8/2007.
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12. Mihalopoulos N., (INVITED TALK), Atmospheric pollution and climate, NATO Science for Peace and Security meeting, Balchik, Varna, Bulgaria, 10th March, 2008
13. Mihalopoulos N., (INVITED TALK), Air quality trends in the Mediterranean area, "climate change, causes and impacts" Summer school on: Climate change: causes and impacts seminar on 'Global and regional aerosol modeling', Paphos Cyprus, 12-19 October, 2008.
14. Mihalopoulos N., (INVITED TALK), Origin of Air Pollution over the E. Mediterranean, Cyprus Technical University, Limassol, Cyprus, 22nd of October 2010.
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16. Mihalopoulos N., (INVITED TALK), Sources of aerosols in the Eastern Mediterranean and their climatic impact, Institute of Low Temperature, Sapporo, Japan, 19th of December 2010.
17. Mihalopoulos N., (INVITED TALK), The significance of atmospheric inputs of dissolved and particulate trace metals to the Eastern Mediterranean seawater, University of Hambourg, Germany, 12th of April 2011.
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21. Mihalopoulos N., (INVITED TALK), ChArMEX-related activities in Greece and Cyprus, 3rd International ChArMEX Workshop, Cargèse, Corsica, France, November 5 to 9, 2012.
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23. Mihalopoulos N., (**Keynote talk**), Atmospheric pollution in the Mediterranean: Sources and Impact on Air Quality, Health and Climate, EGU, 24th April 2017.

CONFERENCE PROCEEDINGS and CONFERENCE ABSTRACTS

More than 600 presentations in conferences either as oral or poster with more than 100 as extended conference proceedings.