

Mihalopoulos Nikolaos

Professor of Environmental Chemistry
Department of Chemistry
University of Crete

CURRICULUM VITAE

November 2013

Biographic outline

Education:	<p>Ph.D. Chemistry of Air Pollution and Environmental Physics, University of Paris 7, France, 4/1989</p> <p>D.E.A in Chemistry of Pollution, University of Paris 7, France, 9/1985</p> <p>B.S. of Chemistry, Department of Chemistry, University of Athens, Greece, 4/1984</p>
Employment after the Ph.D. thesis:	<p>10/2013–today: Director of IERSD, NOA</p> <p>2003–today: Professor of Environmental Chemistry, Department of Chemistry University of Crete, Heraklion, Greece</p> <p>12/2010–3/2011: Visiting Professor, University of Sapporo, Japan</p> <p>1999–2003: Associate Professor of Environmental Chemistry, Department of Chemistry, University of Crete, Heraklion, Greece</p> <p>3/2002–7/2002: Visiting Professor, Max-Planck Institute of Chemistry, Mainz, Germany.</p> <p>1993–1999: Assistant Professor of Environmental Chemistry, Department of Chemistry, University of Crete, Heraklion, Greece</p> <p>11/1991–8/1993: Military Service Laboratory of Spectroscopic Analysis of Fuels Air Force of Greece</p> <p>2/1991–11/1991: Research Scientist, Centre des Faibles Radioactivités, CNRS Gif-sur Yvette, France.</p> <p>6/1989–1/1991: Research Scientist, Physicalische Chemie, Bergische Universität, Wuppertal, Germany</p> <p>4/1989–6/1989: Research Scientist, Centre des Faibles Radioactivités, CNRS, Gif-sur-Yvette, France</p>
Research Interest and Experience:	<p>Atmospheric Chemistry and Physics, Global Biogeochemical Cycles, Chemical Kinetics, Environmental Analytical Chemistry</p>
Administrative Experience:	<p>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.</p> <p>9/2004–9/2006: President of the department of Chemistry</p>

	<p>9/2004–6/2006: Member of the Senate of the University of Crete</p> <p>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.</p> <p>2002–2009: Member of the research committee (ELKE, 7 members) of the University of Crete.</p> <p>2/1996–6/1997: Member of the Senate of the University of Crete</p> <p>9/1994–9/1996: Member of the undergraduate studies committee of the Department of Chemistry of the University of Crete.</p>
Teaching experience:	<p>Undergraduate and post graduate courses at Greek Universities and foreign Research Centers</p> <p>Supervision of 13 PhD and 31 Master students and more than 50 undergraduate students for the diploma work.</p>
Research experience:	<p>Referee in 28 international scientific journals</p> <p>Participation as PI or Co-PI in 38 projects funded by EU (22) and National sources (16) > 3,5 M€</p> <p>Editor of 1 book and six special issues of ACP and JMS</p>
Publications:	<p>170 publications in peer reviewed journals (1 Nature and 1 Science) and 51 in conference proceedings.</p> <p>> 5700 citations (>4100 third party citations)</p> <p>H-index=41</p> <p>1 book and 1 monograph.</p> <p style="text-align: right;">(Sources: ISI/Scopus, October 2013)</p>
Participation in international conferences and workshops:	<p>Invited talks: 21</p> <p>Participation at >100 international scientific conferences</p> <p>Contributed talks/posters: 309 (250 with abstracts and 59 with proceedings).</p>
International recognition:	<p>Editorial Board of Atmospheric Chemistry and Physics (ACP, IF=5.52) http://www.atmos-chem-phys.org.</p> <p>Guest editor of five special issues in ACP and one in Journal of Marine Sciences (JMS).</p> <p>Member of scientific committee in more than 10 International conferences</p> <p>Referee for PhD Thesis in Foreign Universities: 1) University Paris VI,</p>

Pierre & Marie Curie (France; Three times), 2) University Joseph Fourier, Grenoble (France; Twice), 3) University Paris VII, Denis Diderot, (France, Twice), 4) University of Helsinki, 5) University of Hamburg

Referee for Habilitation Thesis: University of Bremen and University Paris VII

Reviewer for Proposals, president and member of the Environment committee, NATO (Science for Peace), 2004-2007

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)

Personal details, education and professional experience

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Born: April 1, 1961, Piraeus, Greece

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:

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.
- 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

- 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' Environnement, 1994, 1997, 1998, France).

Grants:

- Foundation Onassis (Grant for PhD thesis)
- Foundation of state scholarships (Grant for PhD thesis)
- EU grant (Marie-Curie) for post doctorate studies in Germany.

Member of associations:

- Association of Greek Chemists
- 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

A. Research Experience

Research activities

- Atmospheric chemistry and Physics with emphasis on oxidation capacity of the atmosphere, physicochemical aerosol properties and their climatic role.
- Global biogeochemical cycles of carbon, nitrogen, phosphorus and sulfur.
- Air sea- exchange
- Chemical kinetics
- Environmental Analytical chemistry
- Responsible scientist of Finokalia station

Finokalia is a unique remote sampling station on Crete, which is considered as a reference for the E. Mediterranean atmosphere and disposes the longest reliable data record of environmental parameters. Finokalia is (or was) part of several networks (Accent network of excellence, CREATE, EUSAAR, ACTRIS), and an official EMEP site of Greece.

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

Total amount for University of Crete:	3,5 M€
Total amount the last 5-years:	1,17 M€

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. "EI-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. Zarmpas; 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, **PI**, 170K€.

B. International recognition

- > 5700 citations in the international literature.
- > **4100 third-party citations** (without the references from collaborators and self-citations). The detailed list of publications is provided in section below.
- **Invited speaker** at 21 international scientific conferences, at 3 of which as **keynote speaker**. The detailed list is provided below.
- 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** for 5 special issues of ACP: (Minos campaign, IGAC conference, Solar Eclipse, Pegasos, dust and its role on climate)
- Guest editor of a special issue of Journal of Marine Sciences (JMS, topic: Regional comparisons).
- Regular **referee** of scientific articles (more than 70) in most of the international scientific journal of my discipline as well as for scientific monographs, a non complete list is given below:
 - 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
 - Particuology
 - Journal of Marine Systems
 - Journal of Photochemistry and Photobiology A
 - Int J Hyg Environ Health
 - Environmental Pollution
 - Environmental Modelling and Software,
 - Deep-Sea Research, Part 1
 - Journal of Aerosol Science

- Journal of Hazardous Materials

Referee/Evaluator of research projects submitted for financial support by 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).
- 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:
 - 1) University of Bremen (Germany)
 - 2) University Paris VII, Denis Diderot (France)
 - Member and subsequently Chairman of the evaluation panel of NATO in the frame of the action ‘Science for Peace and Security, Environmental Security’. For the first time has been invited as evaluator in 2004, the year after served as vice-chair of the panel and in 2006 as Chairman.
 - Convener of 10 International and several Greek Conferences (as member of the organizing scientific Committee), .
 - President of the Scientific Organizing Committee of the next International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP) to take place in Crete in May 2014.
 - 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 of the next European Geophysical Union (EGU) General Assembly 2013, Vienna/Austria, 07 – 12 April 2013.

C. Publication list

- 170 publications in peer reviewed journals (*1 in Nature and 1 in Science*)
- 59 conference proceedings
- 1 Book and 1 monograph
- More than 300 international conference abstracts
- More than 20 articles and interviews in local and national journals, TV and radio.
- H-index 41, 5760 citations (Scopus). Third party citations > 4100
- Since 2002-today, 12articles/year and 500 citations/year (28 citations/publication).

PUBLICATIONS IN PEER-REVIEWED JOURNALS

* = **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.
9. Bingemer H., Andreae, M.O., Andreae T., Artaxo P., Hellas G., Jacob R.A., Mihalopoulos N., Nguyen B.C. Sulfur gases and aerosols in and above the equatorial African forest, J. Geophys. Res. 97, D6, 6207-6217, 1992.
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.

17. Nguyen B.C., Mihalopoulos N., Putaud J.P., Rice straw burning in Southeast Asia as a source of CO and COS to the Atmosphere. J. Geophys. Res., 99, 16435-16439, 1994.

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.

19. Barnes I., Becker K.H., Mihalopoulos N., FT-IR product study of the photooxidation of dimethyl disulfide, J. Atmos. Chem. 18, 267-289, 1994.

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.

21. Mihalopoulos N*, Stephanou E., Pilitsidis S., Kanakidou M., Bousquet P., Atmospheric aerosol composition above the Eastern Mediterranean region, Tellus, 49B, 314-326, 1997.

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.

24. Patroescu J., Barnes I., Becker K.H., Mihalopoulos N., FTIR product study of the OH

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 monoterpene photo-oxidation products over forests, Geophys. Res. Letters, 26, 55-58, 1999.

26. Putaud J.P., Davison C., Watts S.F., Mihalopoulos N., Hewitt N., Nguyen B.C., Dimethylsulfide and its oxidation products at two sites in Brittany, Atmos. Environ., 33, 647-659, 1999.

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.

28. Kavouras I.G., Mihalopoulos N., Stephanou E.G., Secondary organic aerosol formation vs primary organic aerosol emission: In situ evidence for the chemical coupling between monoterpene acidic photooxidation products and new particle formation over forests, Environ. Sci. Technol., 33, 1028-1037, 1999.

29. Kettle A.J., Andreae M.O., Amouroux D., Andreae T.W., Bates T.S., Berresheim H., Bingemer H., Boniforti R., Curran M.A., Ditullio G.R., Helas G., Jones G.B., Keller M.D., Kiene R.P., Leck C., Lévassieur M., Malin G., Maspero M., Matrai P., McTaggart A.R., Mihalopoulos N., Nguyen B.C., Novo A., Putaud J.P., Rapsomanikis S., Roberts G., Schebeske G., Sharma S., Simo R., Staubes R., Turner S., Uher G., A global data base of sea surface dimethylsulfide measurements and a procedure to predict sea surface DMS as a function of latitude, longitude and month, Global Biogeochem. Cycles, 399-444, 1999.

30. Sciare, J., and N. Mihalopoulos*, A new technique for sampling and analysis of atmospheric dimethylsulfoxide (DMSO), Atmos. Environ., 34, 151-156, 2000.

31. Kouvarakis G., Tsigaridis K., Kanakidou M., and N. Mihalopoulos*, Temporal variations of surface regional background ozone over Crete Island in the Southeast Mediterranean. J. Geophys. Res., 105, 4,399 - 4,407, 2000.

32. Belviso, S., Morrow, R., Mihalopoulos, N., An Atlantic meridional transect of surface water dimethyl sulfide concentrations with 10-15 km horizontal resolution and close examination of ocean circulation, J. Geophys. Res. 105, 14,423 – 14,457, 2000.

33. Sciare, J., Baboukas, E., Kanakidou, M., Krischke, U., Belviso, S., Bardouki, H., N. Mihalopoulos*, Spatial and temporal variability of atmospheric sulfur-containing gases and particles during the Albatross campaign, J. Geophys. Res., 105, 14,433 – 14,448, 2000.

34. Patris, N., Mihalopoulos, N., Baboukas, E. D., Jouzel, J., Isotopic composition of sulfur in size-resolved marine aerosols above the Atlantic Ocean, J. Geophys. Res., 105, 14,449 – 14,457, 2000.

35. Baboukas, E. D., Kanakidou, M., N. Mihalopoulos*, Carboxylic acids in gas and particulate phase above the Atlantic Ocean, J. Geophys. Res., 105, 14,459 – 14,471, 2000.

36. Sciare, J., Kanakidou M., and N. Mihalopoulos*, Diurnal and seasonal variation of atmospheric dimethylsulfoxide at Amsterdam Island in the southern Indian Ocean. J. Geophys. Res., 105, 17,257-17,265, 2000.
37. Sciare, J., N. Mihalopoulos*, and Dentener F., Interannual variability of atmospheric dimethylsulfide in the Southern Indian Ocean. J. Geophys. Res., 105, 26,369-26,377, 2000.
38. Sciare, J., Baboukas E., and N. Mihalopoulos*, Short-term variations of atmospheric DMS and its oxidation products at Amsterdam Island during summer time. J. Atmos. Chem., 39, 281-302, 2001.
39. Harrison, D., Hunter M.C., Lewis A.C., Seakins P.W, Bonsang B., Gros V., Kanakidou M., Touaty M., Kavouras I, Mihalopoulos N., Stephanou E., Alves C., Nunes T., Pio C., Ambient isoprene and monoterpene concentrations in a Greek fir (*Abies Borisii-regis*) forest. Reconciliation with emissions measurements and effects on measured OH concentrations, Atmos. Environ., 35, 4,699-4,711, 2001.
40. Stephanou, E.G., Kavouras I., Mihalopoulos N., Comment on “Formation of new particles in the gas-phase ozonolysis of monoterpenes ”by Koch et al. Atmospheric Environment 34 (2000) 4031 –4042), Atmos. Environ., 35, 4523 –4524, 2001.
41. N. Mihalopoulos*, Nguyen B.C., Vertical distribution of Carbonylsulfide in a eucalyptus forest, Chemosphere, 3, 275-282, 2001.
42. Kouvarakis, G., N. Mihalopoulos*, Tselepides T., Stavrakakis S., On the importance of atmospheric nitrogen inputs on the productivity of Eastern Mediterranean, Global Biogeochem. Cycles, 15, 805-818, 2001.
43. Kouvarakis G., and N. Mihalopoulos*, Seasonal variation of dimethylsulfide in the gas phase and of methanesulfonate and non-sea-salt sulfate in the aerosol phase measured in the Eastern Mediterranean atmosphere, Atmos. Environ., 36, 929-938, 2002.
44. Economou C., and N. Mihalopoulos*, Formaldehyde in the rainwater in the Eastern Mediterranean: Concentration, deposition and contribution to organic carbon budget, Atmos. Environ., 36, 1337-1347, 2002.
45. Sciare, J., N. Mihalopoulos*, Nguyen B.C., Spatio-temporal variability of dissolved sulfur compounds in European estuaries, Biogeochemistry, 59, 121-141, 2002.
46. Kouvarakis G., Bardouki H., and N. Mihalopoulos*, Sulfur budget above the Eastern Mediterranean: Relative contribution of anthropogenic and biogenic sources, Tellus, 54B, 201-212, 2002.
47. Bardouki H., Barcellos da Rosa M., N. Mihalopoulos*, Palm U., and Zetzsch C., Kinetics and Mechanism of the Oxidation of Dimethylsulfoxide (DMSO) and Methanesulphinate (MSI) by OH Radicals in Aqueous Medium, Atmos. Environ., 36, 4627-4634, 2002.
48. Kouvarakis G., Vrekoussis M., N. Mihalopoulos*, Kourtidis K., Rappengluck B., Gerasopoulos E. and Zerefos C., Spatial and temporal variability of tropospheric ozone (O₃) in

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

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MONOGRAPHS

Mihalopoulos N., Long range transport of pollutants above the Eastern Mediterranean: Implications for air quality and regional climate change, in Regional Climate Variability and its impact in the Mediterranean Area, A. Mellouki and A.R. Ravishankara (eds), NATO Science Series, Earth and Environmental Sciences, Vol 79, pp1-15, Springer, 2007

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PRESENTATIONS IN CONFERENCES:

A: INVITED TALKS

1. Mihalopoulos, N., (INVITED TALK, **Keynote talk**) Impact of marine emissions on atmospheric chemistry and climate, A Changing Atmosphere: the 8th European Symposium on the Physico-Chemical Behaviour of Atmospheric Pollutants", 17-20 September 2001, Torino, Italy.
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.
3. Mihalopoulos N., (INVITED TALK) The biogeochemical cycle of dimethylsulfide (DMS): Importance and uncertainties, Third Informal Conference on Reaction Kinetics and Atmospheric Chemistry, June 7 to 9, 2002 at the LO-Skolen Conference Center, Helsingør, Denmark.
4. Mihalopoulos N., (INVITED TALK) Global Air Pollution crossroads above Mediterranean, First IGBP Italian Conference, Paestum (SA), November 14th-16th, 2002.
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.
6. Mihalopoulos, N., (INVITED TALK), Role of atmospheric deposition of Nitrogen species to the seawater productivity: Case of the Eastern Mediterranean Sea, ACCENT-Workshop on Understanding and quantifying the atmospheric nitrogen cycle, Barnsdale, 31 Oct.- 2 Nov, 2005.
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.
8. Mihalopoulos N., (INVITED TALK, **Keynote talk**), Implications of Mediterranean pollution for air quality and regional climate, Regional Climate Variability and its Impacts in the Mediterranean Area, NATO Advanced Research Workshop on Regional Climate Variability and its Impacts in the Mediterranean Area, Marrakech, Morocco, 25-28/11, 2006.
9. Mihalopoulos N., (INVITED TALK), Biogeochemical Nitrogen cycle, Euroceans Summer School, Ankara, 16-21/8/2007.

10. Mihalopoulos N., (INVITED TALK, **Keynote talk**), Climate relevant aerosol properties above Mediterranean, "From Deserts to Monsoons", Crete, Greece, 1-6 June 2008.
11. Mihalopoulos N., (INVITED TALK), Sources of carbonaceous aerosols in the Eastern Mediterranean inferred from long-term observations, Telluride workshop on organic aerosols, USA, 4-8 August 2008.
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.
15. Mihalopoulos N., (INVITED TALK), Global dust cycle: a geochemical, atmospheric and modelling perspective, School of Earth & Environment, Leeds University, U.K. November 15th-16th 2010.
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.
18. Mihalopoulos N., (INVITED TALK), Origin and impacts of atmospheric pollution over the Eastern Mediterranean, Cyprus Institute, Nicosia, 9th of May 2011.
19. Mihalopoulos N., (INVITED TALK), "Aerosol measurements: going beyond mass concentrations", towards an integrated observing system for South America: Air quality assessment and forecasting in Megacities, Workshop and white paper, Santiago de Chile, January 9-12 2012.
20. Mihalopoulos N., (INVITED TALK), Interaction between atmospheric pollution and seawater productivity: case of the Eastern Mediterranean, Middle East Technical University (METU), 6th of September 2012.
21. Mihalopoulos N., (INVITED TALK), ChArMEX-related activities in Greece and Cyprus, 3rd International ChArMEX Workshop, Cargèse, Corsica, France, November 5 to 9, 2012.

B: CONFERENCE PROCEEDINGS

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