

Curriculum vitae

of

Maria Kanakidou

Department of Chemistry, University of Crete,
P.O.Box 1470, 71409 Heraklion Crete, Greece
Tel: + 30-2810-393 633 Fax: + 30-2810-393 601
mariak@chemistry.uoc.gr

Born 6 February 1961, Athens, Greece
Married, two children.

Current position: Associate Professor (Computations of Environmental Chemistry) at the Environmental Chemical Processes Laboratory (ECPL <http://ecpl.chemistry.uoc.gr>) Division of Environmental and Analytical Chemistry of the Department of Chemistry (<http://www.chemistry.uoc.gr>), University of Crete.

Other ongoing scientific responsibilities:

- Member of the Commission on Atmospheric Chemistry and Global Pollution (CACGP) of the IAMAS since summer 1998.
- Member of the Science Panel of EU in the Field of Atmospheric Composition Change from June 2000 to May 2003.
- Member of the Advisory Board of TELLUS B since February 2000 and of Atmospheric Environment since February 2001.
- Member of the task force of the international scientific action on Global Analysis, Integration and Modelling (GAIM: <http://gaim.unh.edu>) of IGBP (International Geosphere-Biosphere Programme: <http://www.igbp.kva.se>) since 2001.
- **Principal Investigator** of the EU financed project **MOST** (Multiphase chemistry of Oxygenated Species in the Troposphere) (started December 2001, duration 3 years, 11 partners from 8 countries, <http://lace.univ-lyon1.fr/most>).
- **Coordinator** of the EU financed project **PHOENICS** (Particles of Human Origin Extinguish Natural solar Irradiance in the Climate System) (accepted by the EU, started January 2002, duration 3 years, 7 partners from 5 countries and JRC, <http://phoenics.chemistry.uoc.gr>).
- **Principal Investigator** of the EU financed project **UTOPIHAN-ACT** (Upper Tropospheric Ozone: Processes Involving HO_x and NO_x. The impact of Aviation and Convectively Transported pollutants in the tropopause region) (accepted by the EU, started January 2002, duration 3 years, 8 partners from 6 countries, <http://www.mpch-mainz.mpg.de/~reus/utopihan>).
- **PI** of the Greek participation to the German – Greece Collaboration programme entitled “Biomass burning over the Mediterranean region» (Oct. 2002-2004).

Main topic of interest:

Atmospheric Chemistry and Physics with focus on atmospheric chemistry and climate changes due to human activities and on gas/particle interactions: Modeling of homogeneous and heterogeneous tropospheric chemistry and aerosol formation. Study of the human-driven changes in the oxidizing power of the atmosphere and the aerosol composition and their interactions with climate.

Education:

- 1993: Habitation on Chemistry: ‘Study of the impact of volatile organic compounds on tropospheric chemistry’, University of Paris 7, France.
- 1988: PhD Thesis on Chemistry: ‘Sources of Nonmethane Hydrocarbons in the Atmosphere’, University of Paris 7, France.
- 1985: Diplome d’Etudes Approfondies (DEA) on Atmospheric Chemistry and Physics and Chemistry of Pollution, University of Paris 7, France.

- Principal Investigator of the French Contribution to the GLOMAC (EUROTRAC) [1992-1995] that has been financed by the French Government in 1993 and in 1994, no funding has been asked for 1995.

- Principal Investigator of the French programme on “Modeling physicochemical processes in the troposphere” that has been financed by the Ministry of Environment and the Ministry of Research and Education (1994–1996)

- Principal Investigator for the CFR of the programme on Modeling Tropospheric Photochemistry by using the Cray computer of the Computing Center of Paris at IDRIS. The programme has been financed after submission of scientific proposals and progress reports (1994: 90 hours CPU C-98; 1995: 350 CPU C-98; 1996 : 300 CPU C-98; 1997: 300 CPU C-98).

- Principal Investigator for the CFR of the French – Greek collaboration between the CFR (CNRS) and the University of Crete in 1995.

- Coordinator of the French programme “toward an integrated study of methane atmospheric cycle” supported financially by the Committee ECLAT of the French Ministry of Environment (1992).

Reviewer at the following scientific journals:

- Journal of Geophysical Research- Atmosphere
- Journal of Atmospheric Chemistry
- Tellus B
- Chemosphere
- Atmospheric Environment
- International Journal of Air and Water Waste management association.

Reviewer of Research proposals submitted at:

NSF-USA
NERC-UK
EU

Participation in field experiments and oceanographic cruises:

Auch (France) 31.06.86 - 06.07.86 (inhabited balloon sampling followed by analysis (at the laboratory) of air for hydrocarbons)

St. Vaast la Hougue (Normandy, France) 28.03.87-06.04.87 (sea water sampling followed by analysis (at the laboratory) for hydrocarbons)

TROPOZ I 11.12.87 - 22.12.87 (air sampling during aircraft flight followed by analysis (at the laboratory) for hydrocarbons)

OCEANONOX (Frenche Brittany, France 04.07.88 - 16.07.88 (hydrocarbon in situ measurements)

OCEANONOX (Frenche Brittany, France 04.06.89 - 16.06.89 (hydrocarbon in situ measurements)

RITS-87-3 (leg. 1) 28-29 May 1987 – North Pacific (sea water and air sampling on board the RV Researcher followed by analysis (at the laboratory) for hydrocarbons)

AEROBIC 96 (Tabua-Portugal), July-August 1996 (H₂O₂ and JNO₂ measurements)

AEROBIC 97 (Pertouli-Greece), July-August 1997 (H₂O₂ and JNO₂ measurements)

MINOS 2001 (Crete-Greece) July-August 2001.

Seminars outside the University of Crete and not listed as presentations at Conferences:

- University of Kaiserslautern, Department of mathematics: No linearity in the chemical processes in the atmosphere, Kaiserslautern, December 1991.
- Institut Max Planck de Chemie, Department of Atmospheric Chemistry: The oxidation of HCFCs and HFCs in the troposphere; Mainz, december 1992.
- Laboratoire de Modélisation du Climat et de l’Environnement: Modélisation globale tri-dimensionnelle de la photochimie troposphérique, Saclay, April 1993.

- European Research Course on Atmospheres, Grenoble, January 1996, January 1997 and January 1998: Models of tropospheric Chemistry. NMHC in the troposphere. Atmospheric sulfur cycle.

**Teaching experience at the University of Crete
Seminars/ Lectures since September 1997**

Winter semester 1997

- Seminars in the frame of the under graduated courses of 'Environmental Chemistry' (main courses given by Prof. E. Stephanou) on the "Structure and application of numerical models of Aquatic Environmental Chemistry".

Summer semester 1998

- Courses for master students ' Environmental Computing Chemistry' (under graduated students at the last semester of their studies can be also admitted)

Winter semester 1998

- Courses for master students ' Atmospheric Chemistry'

Summer semester 1999

- Under graduated courses (last semester): "Environmental Computing Chemistry I".
- Post graduated courses on "Environmental Computing Chemistry II"
- Seminars in the frame of the under graduated courses of 'Environmental Chemistry' (main courses given by Prof. E. Stephanou) on the "Structure and application of numerical models of Aquatic Environmental Chemistry".
- 3-hour seminar on post graduated level in the frame of the NATO/ASI 'Chemistry and Radiation Changes in the Ozone Layer' on «3-d Tropospheric model development: Impact of Non Methane Hydrocarbon Chemistry», Kolybari, May, 1999.

Winter semester 1999

- Post graduated courses on "Atmospheric Chemistry – Selected topics"
- Under graduated courses (3rd semester): Introduction to Computing Sciences (lectures given partially by Assoc. Prof. Th. Kistopoulos). My part covered, introduction to the computers, to programming languages, algorithms, logical flow grams, UNIX and FORTRAN.
- Post graduated practical work on "Environmental Computing Chemistry - Applications"

Summer semester 2000

- Courses for master students ' Environmental Computing Chemistry' (under graduated students at the last semester of their studies were also admitted)
- Seminars in the frame of the under graduated courses of 'Environmental Chemistry' (main courses given by Prof. E. Stephanou) on the " Structure and application of numerical models of Aquatic Environmental Chemistry".
- Post graduated practical work on "Environmental Computing Chemistry - Applications"

Winter semester 2000

- Under graduated courses (3rd semester): Introduction to Computing Sciences (lectures given partially by Prof. S. Farantos). My part covered, introduction to the computers, to programming languages, algorithms, logical flow grams, UNIX and FORTRAN.
- Post graduated practical work on "Environmental Computing Chemistry - Applications"

Summer semester 2001

- Under graduated courses on ' Environmental Computing Chemistry' (theory, fortran applications)
- Post graduated courses on ' Environmental Computing Chemistry' (theory, fortran and facsimile applications)
- Post graduated courses on "Selected topics of Environmental Chemistry"
- Post graduated practical work on "Environmental Computing Chemistry - Applications"

Winter semester 2001

- Under graduated courses (1st semester): Introduction to Chemistry (lectures at the Dept of New Materials given partially by Assoc. Prof. N. Chaniotakis). My part covered, introduction to the structure of the atoms, period table, chemical bond, molecular and ion interactions, introduction to thermodynamics and to thermochemistry.
- Post graduated courses on “Selected topics of Environmental Chemistry”

Summer semester 2002

- Post graduated courses on ‘ Environmental Computing Chemistry’ (theory, fortran and facsimile applications) – also open to under graduated students
- Seminars in the frame of the under graduated courses of ‘Environmental Chemistry’ (main courses given by Prof. E. Stephanou) on the “Structure and application of numerical models of Aquatic Environmental Chemistry”.

Winter semester 2002

- Seminars in the frame of the under graduated courses of ‘Environmental Chemistry’ (main courses given by Prof. E. Stephanou) on the “Structure and application of numerical models of Aquatic Environmental Chemistry”.
- Post graduated courses on “Selected topics of Environmental Chemistry”

Summer semester 2003

- Post graduated courses on ‘ Environmental Computing Chemistry II’ (theory, fortran and facsimile applications)
- Under graduated courses on ‘ Environmental Computing Chemistry’ (theory and fortran applications)

Presentations at conferences after invitation (keynote speaker):

Kanakidou M., Feedbacks in tropospheric chemistry: How well do we understand the chemistry-climate system? Paper presented at the EGS meeting in Nice on April 2003.

Kanakidou M., Impact of fires on atmospheric chemistry, paper presented at the FIRE/GAIM/TRACE workshop , Igny-sur-Sorgues, France, on 23-26 Oct. 2002.

Kanakidou M., Marine Tropospheric Chemistry: Chemical Processes and Interactions with Transport. An Overview, presented at the EGS Conference, Nice, France, April 1998.

Kanakidou M., F.J. Dentener, T.K. Berntsen, W.J. Collins, D.A. Hauglustaine, S. Houweling, I. Isaksen, M. Krol, M.G. Lawrence, J.F. Muller, N. Poisson, G.J. Roelofs, Y. Wang, W.M.F. Wauben, C. Levy, 3-D global simulations of tropospheric O3 distributions - results of the GIM/IGAC intercomparison 1997 exercise, presented at the EGS 1998 Conference, Nice, April 1998.

Kanakidou M., The secondary source of carbon monoxide: Importance and Uncertainties, presented at the International Conference on Atmospheric CO and its environmental effects, Portland, 3-6 Dec., 1997.

Kanakidou M., Chemical processes in CTMs, presented at the IGAC meeting, Fairfax, Virginia, US, 6-8 Dec, 1995.

Kanakidou M., Crutzen P.J., and P.H. Zimmermann, 1991. Organic Nitrogen Compounds in Tropospheric Chemistry. European Geophysical Society, XVI General Assembly, Wiesbaden, 22-26 April, Annal. Geophys., supplement volume 9, C240.

Crutzen P.J., Valentin K. M., and Kanakidou M., 1991. Numerical Modeling of the Anthropogenic Influence on the CO and CH4 Global Budget since the Pre-industrial Period, NATO-ARW on the Atmospheric methane cycle, Mt. Hood, Oct. 6-11.

Publications:

Over 50 publications in journals and peer-reviewed books and 72 presentations at international conferences

LIST OF PUBLICATIONS of Maria KANAKIDOU

Peer reviewed papers at International journals

1. Bonsang B., Kanakidou M., and Lambert G., Non methane hydrocarbons chemistry in the atmosphere of an equatorial forest: a case of indirect photochemical production of OH radicals. Geophys. Res. Lett., **88**, 1250-1253, 1987.
2. Bonsang B., Kanakidou M., Lambert G., and Monfray P., The marine source of C2-C6 aliphatic hydrocarbons. J. Atm. Chem., **6**, 3-20, **1988**.
3. Kanakidou M., Bonsang B., Le Roulley J.C., Lambert G., Martin D., and Sennequier G., Marine source of atmospheric acetylene, Nature, **333**, 51-52, 1988.
4. Bonsang B., Kanakidou M., and Lambert G., Sur la faible variabilité de composition relative de l'eau de mer superficielle en hydrocarbures légers non méthaniques dissous, Compte Rendu de l'Academie de Science, **308**, Serie II, 495-500, 1989.
5. Kanakidou M., Bonsang B., and Lambert G., Light hydrocarbons vertical profiles and fluxes in a french rural area, Atmos. Environ., **23**, 921-927, **1989**.
6. Mihalopoulos N., Bonsang B., Nguyen B.C., Kanakidou M., and Belviso S., Evidence of carbonyl sulfide deficit near the ground. Implication of vegetation. Atmos. Environ., **23**, 2159-2166, 1989.
7. Bonsang B., Kanakidou M., and Lambert G., NMHC in marine atmosphere: Preliminary results of monitoring at Amsterdam island. J. Atmos. Chem., **11**, 169-178, **1990**.
8. Bonsang B., Martin D., Lambert G., Kanakidou M., Le Roulley J.C., and G. Sennequier, Vertical distribution of nonmethane hydrocarbons in the marine boundary layer, J. Geophys. Res., **96**, 1313-1324, **1991**.
9. Kanakidou M., H.B. Singh, K.M. Valentin, and P.J. Crutzen, A 2-D study of ethane and propane oxidation in the troposphere, J. Geophys. Res., **96**, 15,395-15,413, 1991.
10. Gaudry A., Kanakidou M., Mihalopoulos N., Bonsang B., Bonsang G., Monfray P., Tymen R., and B.C. Nguyen, Atmospheric Trace Compounds at a Coastal Site: Application to CO₂, CH₄, and COS Flux Determinations, Atmos. Environ., **26A**, 145-157, **1992**.
11. Singh H. B., Herlth D., Zahn K., O'Hara D., Bradshaw J., Sandholm S. T., Talbot R., Crutzen P. J., and M. Kanakidou, Relationship of PAN to active and total odd nitrogen at northern high latitudes: Influence of reservoir species on NO_x and O₃, J. Geophys. Res., **97**, 16523-16530, 1992.
12. Singh H.B., O'Hara D., Herlth, D., Bradshaw J., Sandholm S.T., Gregory G.L., Sachse G.W., Blake D.R., Crutzen P.J., M. Kanakidou, Atmospheric measurements of PAN and other organic nitrates at high latitudes: Possible sources and sinks, J. Geophys. Res., **97**, 16511-16522, 1992.
13. Singh H. B., and M. Kanakidou, An investigation of the Atmospheric Sources and Sinks of methyl Bromide, Geophys. Res. Lett., **20** (2), 133-136, **1993**.

14. Kanakidou M., and P. J. Crutzen, Scale problems in global tropospheric chemistry modeling: Comparison of results obtained with a three-dimensional model, adopting longitudinally uniform and varying emissions of NO_x and NMHC, Chemosphere, 26, 1-4, 787-802, 1993.
15. Singh H.B., D. O'Hara, D. Herlth, W. Sachse, D. R. Blake, J. D. Bradshaw, M. Kanakidou, P. J. Crutzen, Acetone in the atmosphere: distribution, sources and sinks, J. Geophys. Res., 99, 1805-1819, **1994**.
16. Kanakidou M., F.J. Dentener, P.J. Crutzen, A Global three-dimensional study of the fate of HCFCs and HFC-134a in the troposphere, J. Geophys. Res., 100, 18781-18802, **1995**.
17. F. Stordal, F.G. Derwent, I.S.A. Isaksen, D. Jacob, M. Kanakidou, J.A. Logan, and M.J. Prather, 1995. Model Simulations of Global Tropospheric Ozone, Chapter 7, Scientific Assessment of Ozone Depletion/ 1994. United Nations Environment Programme and World Meteorological Organization. 1994, 33 pp.
18. Singh H.B., M. Kanakidou, P.J. Crutzen and D. Jacob, High concentrations and photochemical fate of carbonyls and alcohols in the global troposphere, Nature, 378, 50-54, 1995
19. Singh H.B., A. N. Thakur, Y.E. Chen and M. Kanakidou, Tetrachloroethylene as an Indicator of Extremely Low Cl Atom Concentrations in the Troposphere, Geophys. Res. Lett., 23, 1529-1532, 1995.
20. Singh H.B., D. Herlth, R. Kolyer, L. Salas, J.D. Bradshaw, S.T. Sandholm, D.D. Davis, Y.Kondo, M. Koike, R.Talbot, G.L. Gregory, G.W. Sachse, E. Browell, D. R. Blake, F.S. Rowland, R. Newell, J. Merrill, B. Heikes, S.C. Liu, P.J. Crutzen and M. Kanakidou, Reactive Nitrogen and Ozone over the Western Pacific: Distribution, partitioning and sources, J. Geophys. Res., 101, 1793-1808, **1996**.
21. Boissard Ch., B. Bonsang, M. Kanakidou and G. Lambert, TROPOZ II: Global Distributions and budgets of methane and light hydrocarbons, J. Atmos. Chem., 25, 115-148, 1996.
22. Gogou A., N. Stratigakis, M. Kanakidou and E. G. Stephanou, Fine organic aerosols in the Eastern Mediterranean: Components source reconciliation by using molecular markers and atmospheric back trajectories, Organic Geochemistry, 25, 79-96, 1996.
23. Olson J., M. Prather, T. Berntsen, G. Carmichael, R. Chatfield, P. Connell, R. Derwent, L. Horowitz, S. Jin, M. Kanakidou, P., Kasibhalta, R. Kotomathi, M. Kuhn, K. Law, S. Sillman, J. Penner, L. Perliski, F. Stordal, A. Thompson, and O. Wild, results from the IPCC Photochemical Model Intercomparison: Some insights into tropospheric chemistry, J. Geophys. Res., 102, D5, 5979-5992, **1997**.
24. Mihalopoulos N., E. Stephanou, M. Kanakidou, S. Pilitsidis and P. Bousquet, Tropospheric aerosol ionic composition above the Eastern Mediterranean Area, Tellus B, 314-326, 1997.
25. Ezat U., Dulac F., Lambert C., Kanakidou M., Mihalopoulos N., and Kouvarakis G., Dust and Lead in Rainwaters of Crete, J. Aerosol Science, September, 1997.
26. Gros V., Martin D., Poisson N., Kanakidou M., Bonsang B., F. Le Guern, Ozone, C₂-C₅ hydrocarbons and Radon-222 measurements in the Marine Boundary layer between 45°S and 77°S, Tellus, 50B, 430-448, **1998**

27. Gros V. Poisson N., Martin D., Kanakidou M., B. Bonsang, Observation and modelling of the seasonal variation of surface ozone at Amsterdam island: 1994-1996. The role of continental sources of O₃ precursors, J. Geophys. Res., 103, 28103-28109, 1998.
28. M. Kanakidou, F.J. Dentener, G.P. Brasseur, T.K. Berntsen, W.J. Collins, D.A. Hauglustaine, S. Houweling, I.S.A. Isaksen, M. Krol, M.G. Lawrence, J.F. Muller, N. Poisson, G.J. Roelofs, Y. Wang, W.M.F. Wauben, 3-D global simulations of tropospheric CO distributions - results of the GIM/IGAC intercomparison 1997 exercise, Chemosphere: Global Change Science, 1, 263-282, 1999.
29. M. Kanakidou* and P.J. Crutzen, The photochemical source of carbon monoxide: Importance, Uncertainties and feedbacks, Chemosphere: Global Change Science, 1, 91-109, 1999.
30. G. Kouvarakis, K. Tsigaridis, M. Kanakidou, and N. Mihalopoulos, Temporal variations of surface background ozone over Crete Island in the South-East Mediterranean, J. Geophys. Res., 105, 4399-4410, 2000.
31. Baboukas E. D., Kanakidou M., and Mihalopoulos N., Carboxylic acids in gas and particulate phase above the Atlantic Ocean, J. Geophys. Res., 105, 14459-14472, 2000.
32. Sciare J., Baboukas E.D., Kanakidou M., Krtsche U., Belviso S., Bardouki H., Mihalopoulos N., Spatial and temporal variability of atmospheric sulfur containing gases and particles during the Albatross campaign, J. Geophys. Res., 105, 14433- 14448, 2000.
33. Law K.S., Planttevin, P.H., Thouret, V., Marengo, A., Asman W.A.H., Lawrence, M., Crutzen, P.J., Muller, J.F., Hauglustaine, D., Kanakidou M., Comparison between global chemistry transport model results and measurement of Ozone and water vapour by Airbus In-Service Aircraft (MOZAIC), Data, J. Geophys. Res., 105, 1503-1525, 2000.
34. Sciare J., Kanakidou M., N. Mihalopoulos, Diurnal and seasonal variation of atmospheric dimethyl sulfoxide (DMSO) at Amsterdam island in the southern indian ocean, J. Geophys. Res., 105, 17257-17265, 2000.
35. Poisson N., Kanakidou M.* and P. J. Crutzen, Impact of Non Methane Hydrocarbons on tropospheric chemistry and particular the oxidizing power of the global troposphere: 3-Dimensional Modelling results, J. Atmos. Chem., 36, 157-230, 2000.
36. Kanakidou M.*, K. Tsigaridis, F. J. Dentener and P.J. Crutzen, Human activity enhances the formation of organic aerosols by biogenic hydrocarbon oxidation, J. Geophys. Res., 105, 9243-9254, 2000.
37. Poisson N., Kanakidou M.*, Bonsang B., T. Behmann, J. Burrows, C. Gözl, H. Harder, A. Lewis, G. K. Moortgat, T. Nunes, C. Pio, U. Platt, F. Sauer, G. Schuster, P. Seakins, J. Senzig, R. Seuwen, D. Trapp, A. Voltz-Thomas, T. Zenker, R. Zitzelberger, The Impact of Natural NonMethane Hydrocarbon Oxidation on the Free Radical and Ozone budgets above a Eucalyptus forest, Chemosphere., Global Change Science, 3, 353-366, 2001.
38. Bonsang B., and M. Kanakidou, Nonmethane hydrocarbon measurements during the FIELDVOC 1994 experiment, Chemosphere, Global Change Science, 3, 259-273, 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., et al.. 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** (27), 4699-4711, 2001.
- 40.** Moortgat G.K., Bonsang B., Kanakidou M., Field studies on the atmospheric chemistry of volatile organic compounds emitted in a eucalyptus forest (FIELDVOC'94), *Chemosphere - Global Change Science*, **3**, 209-210, 2001.
 - 41.** Tsigaridis K. and Kanakidou M.*, Importance of Volatile Organic Compounds Photochemistry Over a Forested Area in Central Greece, *Atmos. Environ.*, **36**, 19, 3137-3146, 2002.
 - 42.** Gros V., Tsigaridis K., Bonsang B., Kanakidou M.* and Pio C., Factors Controlling the Diurnal Variation of CO Above a Forested Area in South East Europe, *Atmos. Environ.*, **36**, 19, 3127-3135, 2002.
 - 43.** Tsigaridis K., Kanakidou M.*, Global modelling of secondary organic aerosol in the troposphere: A sensitivity analysis, *Atmos. Chem. Phys. Discuss.*, **3**, 2879-2929, 2003.
 - 44.** M. Vrekoussis, Kanakidou M.*, Mihalopoulos N., Crutzen P. J., Lelieveld J., Perner D., Berresheim H., Baboukas E., Role of NO₃ radicals in oxidation processes in the eastern Mediterranean troposphere during the MINOS campaign, *Atmos. Chem. Phys. Discuss.*, June, 2003.

Books and other journals (reviewed papers)

- 1.** Bonsang B., Kanakidou M., Lambert G., **1988**. Echanges océan / atmosphère d'hydrocarbures non méthaniques. Revue du Comité National Français des Recherches Antarctiques (*CNFRA*), **59**, 445-454.
- 2.** Robertson G.P., Andreae M.O., Bingemer H.G., Crutzen P.J., Delmas R.A., Duyer J.H., Fung I., Harriss R.C., Kanakidou M., Keller M., Melillo J.M., and G.A. Zavarzin, **1989**. Trace Gas Exchange and the Chemical and Physical Climate: Critical Interactions. in "Exchanges of Trace Gases between Terrestrial Ecosystems and the Atmosphere" M.O. Andreae and D.S. Schimel (eds.) pp. 303-320.
- 3.** Kanakidou M., P. J. Crutzen, P. H. Zimmermann, and B. Bonsang, **1992**. A 3-dimensional global study of the photochemistry of ethane and propane in the troposphere: Production and transport of organic nitrogen compounds, in NATO/CCMS 19th ITM on Air Pollution Modelling and its Application XI, H. van Dop and G. Kallos (eds), Plenum Press, New York, 415-426.
- 4.** Μιχαλοπουλος Ν., Μ. Κανακιδου και Π. Σισκος, 1992, Το πρόβλημα του τροποσφαιρικού οζοντος: Αύξηση της συγκεντρώσης του εξ αιτίας των ανθρωπινών δραστηριοτήτων, *Χημικά Χρονικά*, **54** (7-12) 21-32.
- 5.** Fishmann J., P. E. Artaxo, H. Cachier, G. R. Carmichael, R. Dickinson, M. A. Fosberg, G. Helas, M. Kanakidou, J. Logan, J. P. Lacaux, F. Rohrer, 1993. What is the impact of fires on Atmospheric Chemistry, Climate and Biogeochemical Cycles?, in Fire in the Environment, J. Goldamer and P. J. Crutzen (eds), 345-356.
- 6.** M. Kanakidou, **1996**. Tropospheric Chemistry Models, in ERCA book Volume 2, C. F. Bourton (eds.), Les éditions de physique, Les Ulis, France, 245-264.

7. M. Kanakidou, F.J. Dentener, G. P. Brasseur, W.J. Collins, T.K. Berntsen, D.A. Hauglustaine, S. Houweling, I. S.A. Isaksen, M. Krol, K. S. Law, M.G. Lawrence, J.F. Muller, P.H. Plantevin, N. Poisson, G.J. Roelofs, Y. Wang, W.M.F. Wauben, **1998**. 3-D Global Simulations of Tropospheric Chemistry with focus on Ozone Distributions - Results of the GIM/IGAC Intercomparison 1997 Exercise, *report to the EU*, December 1998.
8. Kanakidou M., 3-d Tropospheric model development: Impact of Non Methane Hydrocarbon Chemistry, in the NATO/ASI Proceeding on 'Chemistry and Radiation Changes in the Ozone Layer', Ch. Zerefos (eds), 1999.
9. Granier C., Kanakidou M., Kasibhalta P., Modeling, Chapter 7, in the IGAC Integration and Synthesis, in press to appear November 2002.

Proceedings

1. Bonsang B., Kanakidou M., and Lambert G., **1986**. Vertical profiles of nonmethane hydrocarbons in the troposphere: Application to the indirect determination of OH radicals. Proceeding of the 2nd French - German workshop on the study of chemical reaction with tropospheric interest, 11-13 Mar., St Hugues de Biviers, France, 108-110.
2. Bonsang B., I. Bertrand, and Kanakidou M., **1991**. Simultaneous variations of the concentrations of non methane hydrocarbons, ozone and radioactive tracers during the "Oceano Nox" field campaign at the "Pointe de Penmarc'h". CEC report N° 35, CEC eds., edited by G. Le Bras, June 1991, 181-190.
3. Kanakidou M., **1993 (INVITED PAPER)** The role played by anthropogenic emissions in determining O₃/NO_x/VOCs budgets, in the Proceeding of the EUROTRAC Symposium '92, edited by P. Borrell et al., 269-275.
4. Kanakidou M., and P. J. Crutzen, **1993**. Scale problems in global tropospheric chemistry modeling, in the Proceeding of the EUROTRAC Symposium '92, edited by P. Borrell et al., 471-474.
5. Kanakidou M., F. J. Dentener, P.H. Zimmemann, and P. J. Crutzen, 1993. A global three-dimensional study of the distribution of HCFC-22 and its oxidation products in the troposphere, in the proceedings of the AFEAS workshop on Atmospheric Wet and Dry Deposition of Carbonyl and Haloacetyl Halides, Sept. 22, Brussels, 1992, p.103-117.
6. M. Kanakidou, F.J. Dentener and P.J. Crutzen, 1993. A global three-dimensional study of the fate of HCFCs and HFCs in the troposphere, in the Proceedings of the STEP/AFEAS workshop, Dublin, Ireland, March 23-25, 1993, 113-129.
7. M. Kanakidou, F.J. Dentener and P.J. Crutzen, 1993. Chlorofluoromethane (HCFC-22) and its oxidation products in the troposphere, in the proceedings of the 3rd Conference on Environmental Science and Technology, 6-10 Sep., Lesvos, Greece, 1993, p.33-41.
8. Kanakidou M., B. Bonsang and N. Poisson, Impact of biomass burning emissions on the oxidizing capacity of the troposphere, in the proceedings of the 4th Conference on Environmental Science and Technology, Lesvos, 4-7 Sep., 797-802, 1995.
9. M. Kanakidou, Poisson N, Lattuati M, Aumont B, Beekmann M, Bey I, Behra P, Chaumerliac N, Gregoire P, Hauglustaine D, Huret N, Losno R, Maalez A, Martin D, Martinerie P, Mercier P, Pham M, Pirre M, Ramaroson R, Suhre K., Comparaison entre 11 modèles utilisés en France pour

- la description de la photochimie troposphérique, Atelier Modelisation, Toulouse, Nov., 283-291, 1995.
10. N. Poisson and M. Kanakidou, 1995. Etude de l'impact global 3D des hydrocarbures non méthaniques sur la photochimie troposphérique, in the proceedings of Atelier Modelisation, Toulouse, Nov., 397-406, 1995.
 11. Kanakidou M., P.J. Crutzen and P. H. Zimmermann, 1994. Estimates from the changes in tropospheric chemistry which result from human activity and their dependence on NO_x emissions and model resolution, in NASA Conference Publication 3266, pp.66-69.
 12. B. Bonsang, M. Kanakidou and Ch. Boissard, Contribution of biomass burning to the global budget of hydrocarbons, carbon monoxide and tropospheric ozone, International Symposium on "Non-CO₂ Greenhouse Gases. Why and how to control?", Maastricht -The Netherlands, 13-15 Dec 1993, pp. 261-270, J. van Ham et al. (ed.), Kluwer, 1994.
 13. Poisson N. and M. Kanakidou, Impact of non methane hydrocarbons on global tropospheric chemistry, in the Proceedings of EUROTRAC symposium 1996, 601-605, 1996.
 14. Touaty M., B. Bonsang, M. Kanakidou, and N. Poisson, Monitoring and Model Comparison of the Seasonal Variation of Tropospheric Light Hydrocarbons at Amsterdam Island, in the Proceedings of EUROTRAC symposium 1996, 613-619, 1996.
 15. E. Baboukas, J. Sciare, G. Kouvarakis, N. Mihalopoulos, B.C. Nguyen, and M. Kanakidou, 1996. Sulfur cycle in the Indian Ocean: Rainwater composition at three islands in the southern Indian Ocean, in the proceedings of the 7th European Symposium on Physico-Chemical Behaviour of Atmospheric Pollutants on the Oxidizing Capacity of the Troposphere, Venice, Italy, Oct 2-4, 1996.
 16. Gros V., D. Martin, B. Bonsang, N. Poisson and M. Kanakidou, Seasonal variation of O₃ at Amsterdam island: Preliminary Results (1994-95), in the proceedings of the 7th European Symposium on Physico-Chemical Behaviour of Atmospheric Pollutants on the Oxidizing Capacity of the Troposphere, Venice, Italy, Oct 2-4, 1996.
 17. Bonsang B., N. Poisson, and M. Kanakidou, J. Burrows, Th. Behmann, A. Voltz-Thomas, A. Harder, D. Trapp, R. Seuwen, G. Moortgat, U. Platt, Ch. Göltz, J. Senzig, P. Seakins, A. Lewis, C. Pio, T. Nunes, Impact of natural non methane hydrocarbon oxidation on free radical and organic acid formation., in the Proceeding of the 7th European Symposium on Physico-Chemical Behaviour of Atmospheric Pollutants on the Oxidizing Capacity of the Troposphere, Venice, Italy, Oct 2-4, 1996.
 18. Kanakidou M. and F. Dulac, 1990-1995 air-flow climatology at the sampling station of Finokalia, Crete, Technical report to UE DGXII Environment and Climate 1994-1998 Programme, contract No. ENV4-CT95-0036 (Centre des Faibles Radioactivités, Gif-Sur-Yvette) December 1996.
 19. Kanakidou M., Poisson N., David P., The French Contribution to the GLOMAC programme, in the EUROTRAC final report 1998.
 20. Kanakidou M., The secondary source of carbon monoxide: Importance and Uncertainties, in the Proceedings of the International Conference on Atmospheric CO and its environmental effects, Portland, 3-6 Dec., 1997. (INVITED PAPER)
 21. Kanakidou M., F.J. Dentener, T.K. Berntsen, W.J. Collins, D.A. Hauglustaine, S. Houweling, I. Isaksen, M. Krol, M.G. Lawrence, J.F. Muller, N. Poisson, G.J. Roelofs, Y. Wang, W.M.F.

Wauben, 3-D global simulations of tropospheric CO distributions - results of the GIM/IGAC intercomparison 1997 exercise, in the Proceedings of the International Conference on Atmospheric CO and its environmental effects, Portland, 3-6 Dec., 1997.

22. Boissard Ch., M. Kanakidou and B. Bonsang, Secondary organic aerosols, An overview, CFR Report, Centre des Faibles Radioactivités, CNRS, Gif-sur-Yvette, 1997.
23. Kanakidou M., K. Tsigaridis, Human activity enhances ozone and aerosol production from natural ecosystems: Implications for South Europe and Global Climate. In the proceedings of the first Symposium on Climate changes in the S. E. Mediterranean, Greek Academy of Science (eds), Athens, Greece, 2001 in press.
24. Tsigaridis, K. and Kanakidou, M. Anthropogenic versus natural secondary organic aerosol in the global troposphere. *A changing atmosphere – 8th European Symposium on the Physico-Chemical behavior of atmospheric pollutants*, (CD-Rom publication), 17-20 September, Torino, Italy, 2001.

Conferences

1. Bonsang B., Lambert G., Kanakidou M., and Bergeret C., Long range transport of light non-methane hydrocarbons in the oceanic atmosphere. IAMAP/IAPSO Joint assembly, 5-16 Aug. Honolulu - Hawaii (USA), EOS, 66. 1985.
2. Bonsang B., Kanakidou M., and Lambert G., Vertical profiles of non methane hydrocarbons in the troposphere, application to the indirect determination of OH radicals. 2nd French-German workshop on the study of chemical reactions with tropospheric interest. St Hugues de Biviers (France), 11-13 Mars. 1986.
3. Bonsang B., Kanakidou M., and Lambert G., Production of light non methane hydrocarbons in intertropical oceanic and forest area. 2nd International Symposium on biosphere-atmosphere exchanges. Mainz (FRG), 16-21 Mars. 1986.
4. Le Guern F., Kanakidou M., Mihalopoulos N., Bonsang B., et Nguyen B.C., Composition et origine du gaz de lac Nyos. Conférence Internationale Scientifique de la catastrophe naturelle du lac Nyos. Yaounde, Cameroun, 16-20 Mars. 1987.
5. Kanakidou M., Bonsang B., Monfray P., and Lambert G., 1987. Light hydrocarbons fluxes in a rural area. Sixth International Symposium of the Commission for Atmospheric Chemistry and Global Atmospheric Chemistry. Trent University, Peterborough, Ontario, Canada. 23-29 August.
6. Bonsang B., Lambert G., and Kanakidou M., 1987. Dynamic of the transport of non-methane hydrocarbons from surface sources to the boundary layer. Sixth International Symposium of the Commission for Atmospheric Chemistry and Global Atmospheric Chemistry. Trent University, Peterborough, Ontario, Canada. 23-29 August.
7. Gaudry A., Kanakidou M., Monfray P., Bonsang B., Bonsang G., Fontugne M., and Lambert G., 1987. Origin of CO₂ variations observed at a coastal site. Sixth International Symposium of the Commission for Atmospheric Chemistry and Global Atmospheric Chemistry. Trent University, Peterborough, Ontario, Canada. 23-29 August.
8. Bonsang B., Kanakidou M., and Lambert G., Echanges Océan/Atmosphère d'hydrocarbures légers. Colloque sur la Recherche Française dans les Terres Australes et à partir des navires qui les desservent. Strasbourg, 14-17 Sept. 1987.

9. Bonsang B., Kanakidou M. and Lambert G., Preliminary results of NMHC monitoring at Amsterdam Island. SABOAC II meeting, Melbourne, Australia, November 14-18, 1988.
10. Bonsang B., Kanakidou M., Le Rouley J.C., Lambert G., Martin D., and Sennequier G., 1988. Sources and sinks of NMHC deduced from their vertical distributions: application to OH radicals concentrations. International Congress of Geochemistry, Current Trends in atmospheric chemistry, Paris, Aug.29 - Sept. 2., Chem. Geology, 70,1/2, 95.
11. Bonsang B., Kanakidou M., Lambert G., and Rudolph J., Vertical Profiles and Fluxes of NMHC in the Equatorial Forest of CONGO. AGU Fall Meeting in San Francisco on Dec.5, EOS, October, 1988.
12. Kanakidou M., Bonsang B. and Lambert G., Marine emissions of non methane hydrocarbons. dans le "Global and Regional Environmental Atmospheric Chemistry", Proceedings of the International Conference on Global and Regional Environmental Atmospheric Chemistry, Beijing, China, Mai 3-10, 210, 1989.
13. Carlier P., Fresnet P., Pashalidis S., Petitot F., Tsetsi M., Lescoat V., Dupont B., Ritz D., Nguyen B.C., Bonsang B., Mihalopoulos N., Kanakidou M., Putaud J.P., Bertrand I., Boissard C., Campin J.M., Platt U., Dorm H.P., Brauers T., Koch T., Neuroth R., Marenco A., Nedelec P., Perros P., Overview of the Atmospheric Field Campaign at the "Pointe de Penmarc'h". Seventh International Symposium of the Commission on Atmospheric Chemistry and Global Pollution. Chamrousse, France 5-11 Sept. 1990.
14. Gaudry A., Kanakidou M., Mihalopoulos N., Bonsang B., Bonsang G., Monfray P., Tymen R., and B.C. Nguyen, 1990. Variation of Atmospheric Trace Compounds at a Coastal Site: Application to CO₂, CH₄, and COS Flux Estimates. Seventh International Symposium of the Commission on Atmospheric Chemistry and Global Pollution. Chamrousse, France 5-11 Sept.
15. Kanakidou M., Crutzen P.J., and P.H. Zimmermann, 1990. Importance of organic nitrogen compounds in tropospheric chemistry, AGU Fall Meeting in San Francisco on Dec.6, EOS, 71, No 43, Oct. 23, 1258.
16. Bonsang B., Kanakidou M., and I. Bertrand, 1990. Simultaneous variations of the concentrations of non methane hydrocarbons, ozone and radioactive tracers during the "Oceano Nox" field campaign at the "Pointe de Penmarc'h". Seventh International Symposium of the Commission on Atmospheric Chemistry and Global Pollution. Chamrousse, France 5-11 Sept.
17. Bonsang B., Fontaine E., Martin D., Lambert G., Kanakidou M., and J.C Le Rouley, Vertical distribution of nonmethane hydrocarbons in the marine boundary layer. Seventh International Symposium of the Commission on Atmospheric Chemistry and Global Pollution. Chamrousse, France 5-11 Sept. 1990.
18. Kanakidou M., Crutzen P.J., and P.H. Zimmermann, Effect of CO and C1-C3 Alkanes on Tropospheric Chemistry: A Three-Dimensional Global Model Study. Seventh International Symposium of the Commission on Atmospheric Chemistry and Global Pollution. Chamrousse, France 5-11 Sept. 1990.
19. Kanakidou M., Crutzen P.J., and P.H. Zimmermann, (**INVITED PAPER**) Organic Nitrogen Compounds in Tropospheric Chemistry. European Geophysical Society, XVI General Assembly, Wiesbaden, 22-26 April, Annal. Geophys., supplement volume 9, C240. 1991.
20. Kanakidou M., and P. J. Crutzen, Scale problems in global tropospheric chemistry modeling: Comparison of results obtained with a three-dimensional model, adopting longitudinally uniform

- and varying emissions of NO_x and NMHC, NATO-ARW on the Atmospheric methane cycle, Mt. Hood, Oct. 6-11. 1991.
21. Crutzen P.J., Valentin K. M., and Kanakidou M., **(INVITED PAPER)** Numerical Modeling of the Anthropogenic Influence on the CO and CH₄ Global Budget since the Pre-industrial Period, NATO-ARW on the Atmospheric methane cycle, Mt. Hood, Oct. 6-11, 1991.
 22. Bonsang B., Lambert G., Kanakidou M., and Polle C., Importance of marine unsaturated NMHC in the remote atmosphere chemistry, Chemraw VII Conference, 2-6 Dec. 1991, Baltimore (Maryland-USA), 1991.
 23. M. Kanakidou, and H.B.Singh, An investigation of the Atmospheric Sources and Sinks of methyl Bromide, 1rst IGAC International Conference, EILAT, Israel, April 18-22, 1993.
 24. M. Kanakidou, F. J. Dentener, and P. J. Crutzen, A three-dimensional study of the relative importance of the pathways involved in the degradation of HCFCs and HFC-134a in the troposphere, sixth European Symposium on Physico-Chemical Behaviour of Atmospheric Pollutants, Varese, 18-22 Oct., 1993.
 25. M. Kanakidou, F.J. Dentener and P. J. Crutzen, A global 3D model of HCFCs and HFCs and their oxidation products in the troposphere, AGU fall meeting, San Francisco, 6-10 Dec, 1993.
 26. B. Bonsang, Ch. Boissard, and M. Kanakidou, Contribution of biomass burning to the global budget of hydrocarbons, carbon monoxide and tropospheric ozone, International Symposium on “Non-CO₂ Greehouse Gases. Why and how to control?”, Maastricht -The Netherlands, 13-15 Dec, 1993.
 27. M.Kanakidou, Impact of Organic Nitrogen Compounds Formation on Nitrogen Oxides Distribution in the Troposphere, EUROTRAC Symposium, Garmish Paterkirchen, Germany, 11-15 April 1994.
 28. H.B. Singh and M. Kanakidou. Acetone in the Global Troposphere: Its possible role as a global source of PAN, 2nd Scientific Conference of the International Global Atmospheric Chemistry Project, on Atmospheric Chemistry and Global Pollution, Fuji-Yoshida, Japon, 5-9 Sept 1994, p26.
 29. Poisson N. and M. Kanakidou, A three-dimensional modeling study of the impact of NMHC on tropospheric chemistry, EGS XX General Assembly, 3-7 Avril, Hambourg, Annal. Geophys., 13, Sup II, C406, 1995.
 30. M. Kanakidou, **(INVITED PAPER)** Chemical processes in CTMs, paper presented at the IGAC meeting, Fairfax, Virginia, US, 6-8 Dec, 1995.
 31. Poisson N., and M. Kanakidou, A global 3-dimensional study of the impact of NMHC on tropospheric chemistry, paper presented at the Eurotrac Symposium “Transport and Chemical Transformation of Pollutants in the Atmosphere”, March 29-31, Garmich-Paterckirchen, Germany, 1996.
 32. E. Baboukas, B.C Nguyen, N. Mihalopoulos, G. Polian and M.Kanakidou, Long range transport of continental derived aerosols above the southern indian ocean, paper presented at the EGS General Assembly, Le Hague May, 1996.

33. Kavouras, N. Mihalopoulos, E. Stephanou, C. Liousse, H. Cachier, B.C. Nguyen, F. Dulac, M. Kanakidou, P. Chazette and J.P. Quisefit, 1996. Measurements of aerosol composition and optical depth above the eastern Mediterranean area, paper presented at the EGS General Assembly, Hague May, 1996. Abstract in Ann. Geophys., Vol. 14/Suppl. II, C592, 1996.
34. N. Mihalopoulos, E. Stephanou, S. Pilitsidis, E. Baboukas and M. Kanakidou, 1996. Atmospheric aerosol major ion composition above the eastern Mediterranean area, paper presented at the EGS General Assembly, Hague May, 1996.
35. Gogou A., E.G. Stephanou, M. Kanakidou, Marine organic aerosols in eastern Mediterranean: Study of their origin and occurrence, paper presented at the EGS General Assembly, Hague May, 1996.
36. Touaty M., Bonsang B., M. Kanakidou and N. Poisson, 1996. Monitoring and Model Comparison of the Seasonal Variation of Tropospheric Light Hydrocarbons at Amsterdam Island, paper presented at the Eurotrac Symposium "Transport and Chemical Transformation of Pollutants in the Atmosphere", March 29-31, Garmich-Paterckirchen, Germany, 1996.
37. E. Baboukas, J. Sciare, G. Kouvarakis, N. Mihalopoulos, B.C. Nguyen, and M. Kanakidou, 1996. Sulfur cycle in the Indian Ocean: Rainwater composition at three islands in the southern Indian Ocean, paper presented at the 7th European Symposium on Physico-Chemical Behaviour of Atmospheric Pollutants on the Oxidizing Capacity of the Troposphere, Venice, Italy, Oct 2-4, 1996.
38. Gros V., D. Martin, B. Bonsang, N. Poisson and M. Kanakidou. Seasonal variation of O₃ at Amsterdam island: Preliminary Results (1994-995), paper presented at the 7th European Symposium on Physico-Chemical Behaviour of Atmospheric Pollutants on the Oxidizing Capacity of the Troposphere, Venice, Italy, Oct 2-4, 1996.
39. Bonsang B., N. Poisson, and M. Kanakidou, 1996. Impact of natural non methane hydrocarbon oxidation on free radical and organic acid formation., paper presented at the 7th European Symposium on Physico-Chemical Behaviour of Atmospheric Pollutants on the Oxidizing Capacity of the Troposphere, Venice, Italy, Oct 2-4, 1996.
40. N. Poisson, and M. Kanakidou, 1996, A global three-dimensional study of the impact of NMHC on tropospheric photochemistry, AGU Fall meeting, San Francisco, Dec., 1996.
41. Kanakidou M. Overview of CTMs used for simulations of the global troposphere in chemistry, IGAC-GIM (Intern. Global Atmosph. Chem. : IGBP Project - Global Integration Modeling), Gif-sur-Yvette (France), Nov. 18-19, 1996.
42. Kanakidou M., Dentener F. J. O₃-GIM intercomparison exercise : results and discussion. IGAC-GIM (Intern. Global Atmosph. Chem. : IGBP Project - Global Integration), Gif-sur-Yvette (France), Nov 18-19, 1996.
43. Kanakidou M., N. Poisson, The impact of Nonmethane hydrocarbon chemistry on the global troposphere, presented on July 4th at the 1997 joint assemblies of IAMAS and IAPSO, Melbourne, 1-9 July 1997.
44. Baboukas E., Nguyen B.C., Mihalopoulos N., and Kanakidou M., Composition of precipitation in the southern Indian ocean, presented on July 7th at the 1997 joint assemblies of IAMAS and IAPSO, Melbourne, 1-9 July 1997.

45. Ezat U., Dulac F., Lambert C., Kanakidou M., Mihalopoulos N., and Kouvarakis G., Dust and Lead in Rainwaters of Crete, presented at the European Aerosol Conference, Hamburg, September, 1997.
46. Kanakidou M., The secondary source of carbon monoxide: Importance and Uncertainties, International Conference on Atmospheric CO and its environmental effects, Portland, 3-6 Dec., 1997.
47. Kanakidou M., F.J. Dentener, T.K. Berntsen, W.J. Collins, D.A. Hauglustaine, S. Houweling, I. Isaksen, M. Krol, M.G. Lawrence, J.F. Muller, N. Poisson, G.J. Roelofs, Y. Wang, W.M.F. Wauben, 3-D global simulations of tropospheric CO distributions - results of the GIM/IGAC intercomparison 1997 exercise, International Conference on Atmospheric CO and its environmental effects, Portland, 3-6 Dec., 1997.
48. Kanakidou M., marine Tropospheric Chemistry: Chemical Processes and Interactions with Transport. An Overview, paper presented at the EGS Conference, Nice, April 1998. (INVITED)
49. M. Kanakidou, F.J. Dentener, T.K. Berntsen, W.J. Collins, D.A. Hauglustaine, S. Houweling, I. Isaksen, M. Krol, M.G. Lawrence, J.F. Muller, N. Poisson, G.J. Roelofs, Y. Wang, W.M.F. Wauben, C. Levy, 3-D global simulations of tropospheric O₃ distributions - results of the GIM/IGAC intercomparison 1997 exercise, paper presented at the EGS 1998 Conference, Nice, April 1998.(INVITED)
50. M. Kanakidou, J. Sciare, E. Baboukas, S. Belviso, T. Brauers, H.P. Dorn, U. Krichke, N. Mihalopoulos, How well can we simulate the atmospheric chemistry of the marine boundary layer of the Atlantic ocean? paper presented at the EGS 1998 Conference, Nice, April 1998.
51. B. Bonsang, M. Kanakidou, N. Mihalopoulos, H. Kavouras, E. Stephanou, C. Pio, T. Nunes, A. Celia, P. Gomes, P. Seakins, A. Lewis, D. Harisson, C. Boissard, V. Gros, J. Sanak, Field Observation and Modelling of the Formation of Biogenic Organic Aerosols in Mediterranean areas. paper presented at the EGS 1998 Conference, Nice, April 1998
52. M. Kanakidou, Impact of the formation of secondary organic aerosols from naturally emitted hydrocarbons on ozone and organic aerosol global budgets. A global three-dimensional study paper presented at the 4th CACGP International Conference in Seattle, August 21, 1998.
53. M. Kuhlman, U. Pulsch, P. J. Crutzen, N. Poisson and M. Kanakidou, Development of a chemical mechanism for isoprene chemistry, paper presented at the 4th CACGP International Conference in Seattle, August 21, 1998.
54. P.J. Crutzen, M. Kanakidou, K. Tsigaridis, and F.J. Dentener, Human-activity-enhanced formation of organic aerosols by biogenic hydrocarbon oxidation, to be presented at the Seventh International Conference on Carbonaceous Particles in the Atmosphere will be held November 26 - 29, 2000 in San Juan, Puerto Rico. (INVITED TALK of Paul Crutzen)
55. Tsigaridis, K., Kanakidou, M., Dentener, F. J. and Crutzen, P. J. Human activity enhances the formation of organic aerosols by biogenic hydrocarbon oxidation. *Sixth scientific conference of the International Global Atmospheric Chemistry Project (IGAC)* 13-17 September, Bologna, Italy, 1999.
56. Tsigaridis, K. and Kanakidou, M. Modeling atmospheric chemistry: a challenge to synthesize and test knowledge acquired from field and chamber experiments. *1st workshop on collaborative actions in the study of atmospheric chemistry*. 4 December, Heraklion, Greece, 2000.

57. Kanakidou M., K. Tsigaridis, Human activity enhances ozone and aerosol production from natural ecosystems: Implications for South Europe and Global Climate. Paper presented at the first one-day Symposium on Climate changes in the S. E. Mediterranean, organized by the Greek Academy of Science, Athens, Greece, April 2001.
58. Tsigaridis, K. and Kanakidou, M. Uncertainties in tropospheric chemistry simulations related to emission inventories of reactive trace gases. Emissions of chemical species and aerosols into the atmosphere, 19-22 June, Paris France, 2001.
59. Bardouki H, M. Kanakidou, M. Vrekoussis, N. Mihalopoulos, J. Sciare, Characterisation of DMS oxidation products in the eastern Mediterranean: Results of the first EL CID campaign, *A Changing Atmosphere: the 8th European Symposium on the Physico-Chemical Behaviour of Atmospheric Pollutants*, 17-20 September 2001, Torino, Italy, 2001.
60. Tsigaridis, K. and Kanakidou, M. Anthropogenic versus natural secondary organic aerosol in the global troposphere. A changing atmosphere – 8th European Symposium on the Physico-Chemical behavior of atmospheric pollutants, 17-20 September, Torino, Italy, 2001. (paper available on CD-Rom and on the web)
61. Tsigaridis, K. and Kanakidou, M., Formation and Occurrence of Secondary Organic Aerosols in the Global Troposphere. Joint CACGP/IGAC International Symposium on *Atmospheric Chemistry within the Earth System: From regional pollution to global change*, 19-25 September, Heraklion, Greece, 2002
62. Kanakidou M., M.Vrekoussis, H.Berresheim, H.Bardouki, J. Sciare, G. Kouvarakis, C. Economou, J. Schneider, S.Borrmann, N. Mihalopoulos, Gaseous (DMS, MSA, SO₂, H₂SO₄ and DMSO) and particulate (sulfate and methanesulfonate) sulfur species during the MINOS campaign: 2. A Modelling approach. Joint CACGP/IGAC International Symposium on *Atmospheric Chemistry within the Earth System: From regional pollution to global change*, 19-25 September, Heraklion, Greece, 2002
63. Vrekoussis M., H.Berresheim, V.Baboukas, V. Gros, M. Kanakidou, J. Lelieveld, N. Mihalopoulos, The role of NO₃ in the oxidation capacity of Eastern Mediterranean atmosphere as deduced by measurements during the MINOS campaign, Joint CACGP/IGAC International Symposium on *Atmospheric Chemistry within the Earth System: From regional pollution to global change*, 19-25 September, Heraklion, Greece, 2002
64. Vrekoussis M., D. Perner, T. Kluepfel, J. Lelieveld, M. Kanakidou, N. Mihalopoulos, Seasonal variability of NO₃ in the Eastern Mediterranean atmosphere, Joint CACGP/IGAC International Symposium on *Atmospheric Chemistry within the Earth System: From regional pollution to global change*, 19-25 September, Heraklion, Greece, 2002
65. F. Dulac, P. Chazette, C. Moulin, U. Ezat, J.-F. Leon, D. Paronis, M. Kanakidou, N. Mihalopoulos, G. Kouvarakis, I. Kavouras, E. Stephanou, I. Chiapello, M. Legrand, O. Pancrati, R. Losno, J.-P. Quisefit, G. Malingre, Overview of observational results from the Mediterranean Dust Experiment (MEDUSE) and correlative measurements, Joint CACGP/IGAC International Symposium on *Atmospheric Chemistry within the Earth System: From regional pollution to global change*, 19-25 September, Heraklion, Greece, 2002
66. Kanakidou M., Impact of fires on atmospheric chemistry, paper presented at the FIRE/GAIM/TRACE workshop, Igny-sur-Sorgues, France, on 23-26 Oct. 2002 (**INVITED**)
67. Vrekoussis M., M. Kanakidou, N. Mihalopoulos, D. Perner, P. J. Crutzen, J. Lelieveld, Εποχιακή διακύμανση των νιτρικών ριζών (NO₃) στην ατμόσφαιρα της Ανατολικής Μεσογείου, Nov 2002.

- 68.** M. Kanakidou, Tropospheric Ozone budget, SPARC/IGAC workshop on chemistry/climate interactions, Giens, 2003.
- 69.** K. Tsigaridis and M. Kanakidou, Human Impact on Atmospheric oxidant and carbonaceous aerosol concentrations in the global troposphere since preindustrial times, EGS- Nice April 2003.
- 70.** K. Tsigaridis and M. Kanakidou Aerosols in the global troposphere, EGS- Nice April 2003.
- 71.** M. Kanakidou, Feedbacks in tropospheric chemistry: How well do we understand the chemistry-climate system? EGS- Nice April 2003. **(INVITED)**
- 72.** G. Kouvarakis, K. Tsigaridis, M. Kanakidou The impact of convection and chemistry of oxygenated organics on HO_x budget in the upper troposphere: A 3 –d global modeling. EGS- Nice April 2003.