

Curriculum vitae

Of

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and

Chair of the Department of Chemistry

also

Visiting faculty member at the Institute of Chemical Engineering and High Temperature Chemical Processes ([ICE-HT](http://ice-ht.forth.gr)) of the Foundation of Research and Technology-Hellas (FORTH).

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Personal Details:

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

EDUCATION:

- 1993: Habilitation in Chemistry: ‘Study of the impact of volatile organic compounds on tropospheric chemistry’, University of Paris 7, France.
1988: PhD Thesis in Chemistry of Air Pollution and Environmental Physics: ‘Sources of Nonmethane Hydrocarbons in the Atmosphere’, University of Paris 7, France.
1985: Diplôme d’Etudes Approfondies (DEA) in Chemistry of Pollution, University of Paris 7, France.
1984: Diploma of Chemistry, Department of Chemistry University of Athens, Greece.

Grants - Doctoral and Post-doctoral:

- Oct. 1985-Nov. 1988: National Greek State organization for financial support of Ph.D. students (competition with written examination).
Jan-Jun. 1989: Max Planck Society postdoctoral stipendium
Jul. 1989 - Dec. 1990: European Union post doctoral grants (competitive – prior the Marie Curie grants)
Jan. 1991-Sept. 1991: Max Planck Society postdoctoral stipendium.

Awards - Honors:

- Reviewer's award of editor assistance - Journal of Geophysical Research – Atmosphere 1998
- H. Julian Allen Award 1998 in recognition as co-author of the outstanding scientific paper for 1998 entitled “High concentrations and photochemical fate of carbonyls and alcohols in the global troposphere” (NASA Ames Research Center on the 20th of July 1998).
- 2014 Honorary member of the International Commission on Atmospheric Chemistry and Global Pollution, ICACGP, of International Association of Meteorology and Atmospheric Science IAMAS. www: <http://www.icacgp.org/>
- 2016 [Vilhelm Bjerknes Medal of the European Geosciences Union](#) EGU award for atmospheric sciences

Main topics of interest:

Atmospheric Chemistry and Physics with focus on **atmospheric chemistry, physics, biogeochemical cycles and climate changes** due to human activities and on gas/particle interactions, both via experimental and modelling studies. Recent focus on modelling 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.

- **Aerosols, air quality and climate:** Our research focuses on the secondary aerosol formation and especially the organic component, the factors that control its variability, and the climatic impact of aerosols.
- **The impact of volatile organic compounds on tropospheric chemistry and climate:** Air pollution and global change issues related to the impact of VOCs on tropospheric oxidants, on nitrogen cycle and subsequently on climate.

- **Biogeochemical Cycles:** Our research focuses on the N, P and Fe cycles, how they are interconnected via atmospheric organic chemistry and atmospheric deposition and what is the impact of this deposition to the marine environment.
- **The chemistry of the upper troposphere:** The central point of our interest is the impact of oxygenated species on HO_x UT/LS budget.

CAREER:

2014-	Chair of the Chemistry Department, University of Crete, Greece
2008-	Professor of Computational Environmental Chemistry at the Division of Environmental and Analytical Chemistry of the Department of Chemistry, University of Crete.
2002- 2007	Associate Professor of Computational Environmental Chemistry at the Division of Environmental and Analytical Chemistry of the Department of Chemistry, University of Crete.
1998-2002:	Assistant Professor of Environmental Chemistry at the Division of Environmental and Analytical Chemistry of the Department of Chemistry, University of Crete.
1991-1997:	Research scientist (Chargée de Recherche) at the Centre National de Recherche Scientifique, Gif-sur-Yvette, France (3-D global and 0-D modeling studies).
1989-1991:	Research fellow (post doctorate) at the Max Planck Institute for Chemistry, Atmospheric Chemistry Division, Mainz, Germany (2- and 3-dimensional global modeling studies in the group of Prof. P.J. Crutzen-Nobel Laureat 1995).
1984-1988:	PhD student - research fellow at the CNRS, Gif-sur-Yvette, France (experimental studies).

SERVICES to the International and National Scientific Community-Ongoing:

- Honorary member of the International Commission on Atmospheric Chemistry and Global Pollution (iCACGP) of the IAMAS/ICSU (member since 1998, served as President 2006-2010).
- Member of the Group of Experts on Scientific Aspects of Marine Environmental Protection (GESAMP/WMO) WG 38 on 'The Atmospheric Input of Chemicals to the Ocean' since 2008.
- External Member of the Advisory board of the IPSL (Institut Pierre-Simon Laplace) of Paris since January 2013.
- Member of the Greek Scientific Advisory Council for the Environment (since summer 2014).
- Member of ESA's Earth Science Advisory Committee (ESAC) since December 2014.
- Member of the SSC of the EU-FP7 project of BACCHUS

Services to the International Scientific Community- Past:

- Member of the Steering Scientific Committee of the EU-FP7 project Evaluating the Climate and Air Quality Impacts of Short-Lived Pollutants - ECLIPSE (2011-2015).
- Member of the Steering Science Committee of the International Atmospheric Chemistry (IGAC) a project of IGBP, cosponsored by iCACGP (2006-2010).
- Member of the steering committees of ACCENT-AT2 (WP10- remote sensing of the troposphere from space) and ACCENT-T&TP (WP14- transport and transformation of pollutants).
- 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>) (2001-2004).
- Member of the Scientific (external) Advisory Board of the EU Integrated Project QUANTIFY
- Member of the Scientific (external) Advisory Board of the International Project BIOSOL
- Member of the Advisory Editorial Board of Atmospheric Environment February 2001-2004.

- Member of the Science Panel of EU in the Field of Atmospheric Composition Change from June 2000 to May 2003.
- Co-convenor of the Global Integration Modeling (GIM) activity of IGAC of the IGBP from summer 1996 – summer 2001.
- Member of the Steering Committee of the modeling effort (CS pole modélisation) of the IPSL (Institut Pierre-Simon Laplace) of Paris from its foundation in 1996 until 1998.
- Member of the Scientific Council of the IPSL (Institut Pierre-Simon Laplace) of Paris from its foundation in 1994 until 1998.

Scientific conferences/workshop organisation

Organisation of International Conferences (not exhaustive)

1. Convenor of GESAMP related session at the EGU 2016 (AS4.21/BG3.4/OS3.2- Air-sea exchanges: Impacts on Biogeochemistry and Climate), Vienna, April 2016
2. Co-convenor at the IUGG 2015 session M06 on ‘Observations of Anthropogenic Aerosol-Cloud Interactions’, Prague, June-July 2015.
3. **Member of the Organizing Committee (local host) of the European Space Agency’s Conference ATMOS 2015 on Advances in Atmospheric Science and Applications, Crete 8-12 June 2015.(245 participants)**
4. Convenor of GESAMP related session at the EGU 2015 (AS4.21/BG3.4/OS3.2- Air-sea exchanges: Impacts on Biogeochemistry and Climate), Vienna, April 2015
5. Convenor of GESAMP session at the EGU 2014 (AS4.3/BG3.4/OS3.2- Atmospheric Deposition to the Ocean: Impacts on Marine Biogeochemistry and Climate), Vienna 2014.
6. Convenor of Session at the CACGP/IGAC Quadrennial Symposium, Natal/Brazil Sept 2014
7. **Organization of the 12th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2014), Heraklion, Crete, 28-31 May 2014.**
8. **Sharing data and information in the Eastern Mediterranean and the Middle East Chania, Crete, 23-25 July 2013, DARECLIMED Kolympari, 22-27 July 2013**
9. Convenor of Symposia at the Davos Atmosphere and Cryosphere Assembly DACA-13 took place in Davos from 8 - 12 July, 2013
10. Member of Scientific Committee of the International Conference on Environmental Science and Technology, Greece, 2013
11. Member of Scientific Committee of the Conference on Meteorology, Climatology and Atmospheric Physics COMECAP-2012, Athens, May 2012
12. Convenor of Symposia at the IUGG 2011 General Assembly, Melbourne, 28 June – 7 July 2011.
13. Convenor and member of program committee at the CACGP/IGAC Quadrennial Joint Symposium, Halifax, 11-16 July 2010.
14. Member of Scientific Committee of the COMECAP-2010, Patras, 2010
15. Member of Scientific Committee of the International Conference on Environmental Science and Technology 2011
16. Member of the scientific committee of the International Conference on Space Technology, Thessaloniki 2011
17. Convenor at the Symposium M15 on Atmospheric Composition Change: Air Pollution in the Global Environment at MOCA (IAMAS-IAPSO-IACS) 2009 joint Assembly, Montreal, 19-29 July 2009.
18. Member of the scientific committee of the International Conference on Space Technology, Thessaloniki 2009
19. **Co-organiser of the “Aerosols - Properties, Processes and Climate” (APPC), Conference, Heraklion, April 22-24, 2007**
20. Member of the organising committee of Advanced workshop “Regional Climate Variability and its Impacts in the Mediterranean Area” at Marrakech, Nov 2006
21. **Organisation of the AT2- annual Conference at Heraklion, Crete, June 2006**
22. Member of the organizing committee of the OA workshop in Oslo May 2006-12-06

23. **Organiser of the Multiphase chemistry of Oxygenated solvents in the troposphere: from Laboratory studies to global Impacts (MOLI) workshop, Heraklion, Crete, 1-3 June 2005**
24. Co-organiser of the PHOENICS Organic Aerosol Workshop, Bavero, Italy, Sept. -21-23, 2003
25. **Chair of science and organizing committees of the quadrennial CACGP/IGAC International Symposium on ‘Atmospheric Chemistry within the Earth System: From Regional Pollution to Global Change’ that took place on Crete in Sept 2002 (<http://atlas.chemistry.uoc.gr/IGAC2002>) (550 participants).**

Reviewer:

For research articles submitted at peer reviewed journals including:

Nature
 Science
 Nature Geosciences
 Journal of Geophysical Research- Atmosphere
 Journal of Atmospheric Chemistry
 Tellus B
 Chemosphere
 Atmospheric Environment
 International Journal of Air and Water Waste management association.
 Atmosfera
 Geophysical Research Letters
 Environmental Chemistry
 Atmospheric Chemistry and Physics
 Environmental Science and Technology
 Water, Air and Soil Pollution
 PNAS
 IPCC reports
 WMO O3 Assessments
 Science of Total Environment

For Research proposals submitted at (not exhaustive):

ERC- starting grants (panel member 2013, 2015)
 NSF-USA
 NERC-UK
 EU
 NSF- Norway
 ANR- Young research grants- France
 DFG- Germany
 SRF- Sweden

Helmutz Association – Atmospheric Chemistry & Climate program

Editor of peer reviewed international journals and books:

- COMECAP 2014 proceeding, University of Crete press (and e-book), May 2014.
- Editor of Atmospheric Chemistry and Physics since Nov 2009
- Member of the editorial board of Atmosphere since 2010
<http://www.mdpi.com/journal/atmosphere/editors/>

- Member of the Advisory Board of TELLUS B since February 2000-2011
- Guest editor of Atmospheric Chemistry and Physics special issue on CACGP/IGAC 2002 International Symposium, 2004.
- PHOENICS Integration and Synthesis Report (ISBN 960-88712-0-4), 2005.

Services to the University of Crete :

- Chair of the Department of Chemistry of the University of Crete since Sept 2014.
- Vice Chair of the Department of Chemistry of the University of Crete (2013-2014) and responsible for the Master and PhD programs of the Department.
- Member of the committee for computations and network of the Department of Chemistry (2002-today)
- Scientific responsible of the EPEAEK (Greek) project on “upgrading the under graduated studies at the Department of Chemistry, University of Crete” (1/4/2003-31/8/2008).
- Representative of the Department of Chemistry at the Computation Centre of the University of Crete (2002-2005).
- Member of the selection committees of the University for buying new scientific instruments, chemical consumables and furniture in 2005.

TEACHING Activities:

Seminars & summer school courses outside the University of Crete:

- Les aérosols carbonés dans le système terrestre: Impacts et incertitudes, College de France, Paris, 22 May 2015 (**broadcasted <http://www.college-de-france.fr/site/edouard-bard/seminar-2014-2015.htm>**)
- Organics in the Atmosphere: from air pollution to biogeochemical cycles and climate, University of Patras, Chemical Engineering Department, 4 February 2015
- Ατμοσφαιρική Ρύπανση στη Μεσόγειο: Αιτία, επιπτώσεις και αναγκαίες δράσεις για βιώσιμη ανάπτυξη, ΕΝΕΡΓΕΙΑ, ΠΕΡΙΒΑΛΛΟΝ ΚΑΙ ΥΓΕΙΑ, Ίδρυμα Ιατροβιολογικών Ερευνών της Ακαδημίας Αθηνών, 18 Ιουνίου 2014
(**broadcasted <http://www.blod.gr/lectures/Pages/viewlecture.aspx?LectureID=1479#>**)
- Kanakidou M., Particle formation: processes and modeling, Santiago, Chile January, 2012
- 5th International SOLAS Summer School, Cargèse, Corsica, France, 29th Aug.t - 10th Sept. 2011
<http://www.solas-int.org/summerschool/>
- Organic Aerosols: A 3-d vision, University of Sapor, Sapor, Japan, February 2011.
- ΠΕΚ Ηρακλείου - Δεκέμβρης 2010: Κλιματικά μοντέλα και προβλέψεις τους για το κλίμα και την ποιότητα του αέρα
- Global Sources of Organic Aerosols in the Atmosphere, University of Iasi, Romania, October 2009.
- Summer school on: Climate change: causes and impacts seminar on ‘Global and regional aerosol modeling’, Paphos Cyprus, 12-19 October, 2008
- Ατμοσφαιρική Ρύπανση και Κλιματικές Αλλαγές, *Κλιματική Μεταβολή – Πόλη και Κτήριο*, 22 Μάρτη 2008– Ηράκλειο
- Ανθρωπογενούς προέλευσης Κλιματικές Αλλαγές, *Ημερίδα Περιβάλλοντος της Ένωσης Κρητών στην Αθήνα*, 11 Μάη 2008, Αθήνα.
- Global modeling of the oceanic source of organic aerosols: primary and secondary sources, GISS, NASA – New York, Aug. 2008.
- Organic Aerosols: Past, Present and Future, Biogeochemical cycling and climate, MISU, Stockholm, May 23, 2008

- GEIA-ACCENT-INTROP Summer School, ile d'Oleron, Sept. 2007.
- NOAA, Boulder, August 2007
- *Ατμοσφαιρική Ρύπανση και Κλιματικές Αλλαγές- ΚΕΠ - Κατανάλωση και Φύση 17 Μάρτη 2007 – Αρχάνες*
- CESAR Introp Summer school at KFA Julich, Germany, Aug. 2006
- German-French Summer school at ile d'Oleron, France Sept. 2004
- European Research Course on Atmospheres, Grenoble, January 1996, January 1997 and January 1998: Models of tropospheric Chemistry. NMHC in the troposphere. Atmospheric sulfur cycle
- Laboratoire de Modélisation du Climat et de l'Environnement: Modélisation globale tri-dimensionnelle de la photochimie troposphérique, Saclay, April 1993.
- Institut Max Planck de Chemie, Department of Atmospheric Chemistry: The oxidation of HCFCs and HFCs in the troposphere; Mainz, December 1992.
- University of Kaiserslautern, Department of mathematics: No linearity in the chemical processes in the atmosphere, Kaiserslautern, December 1991.

Development of e-learning module on NO₂ observations from space

http://dev1.nilu.no/moodle/at2/exerciseTutor/ExerciseModule.htm?moodle/at2/at2-els_NO2/at2-els_NO2.htm

<http://www.iup.uni-bremen.de/eng/lehre/elearning/index.html>

Together with the University of Bremen – Institute for Environmental Physics in the frame of the ACCENT (AT2) EU network

Teaching experience at the University of Crete

- Lectures on Physics and Chemistry of the Atmosphere (Master course)
- Lectures on the “Structure and application of numerical models of Aquatic Environmental Chemistry” as part of the undergraduate course on Environmental Chemistry.
- Lectures on ‘Environmental Computing Chemistry I’ for graduated students including practice.
- Lectures on ‘Atmospheric Chemistry’ for undergraduate students.
- Post graduated courses on “Environmental Computing Chemistry II” including practice Seminars in the frame of the under graduated courses of ‘Environmental Chemistry’ on the “Structure and application of numerical models of Aquatic Environmental Chemistry”.
- Introduction to Computing Sciences for undergraduate students covering introduction to the computers, to programming languages, algorithms, logical flow grams, UNIX and FORTRAN.
- Post graduated courses on “Selected topics of Environmental Chemistry”
- Introduction to Chemistry (lectures at the Dept. of New Materials for undergraduate students) covering introduction to the structure of the atoms, period table, chemical bond, molecular and ion interactions, introduction to thermodynamics and to thermochemistry.
- Qualitative and Quantitative Analytical Chemistry (undergraduate studies)
- Contribution to the development of an e-learning course on NO₂ observations from space developed in the frame of the European Network of Excellence for Atmospheric Composition Change ACCENT.

Post doctoral research advisor:

Dr. Geogios Kouvarakis (now research Engeneering at University of Crete)

Dr. Evangelos Gerasopoulos (now at National Observatory of Athens)

Dr. Kostas Tsigaridis (now at Columbia University/NASA-GISS)

Dr. Mihalis Vrekoussis (now at IUP, University of Bremen and the Cyprus Institute)

Dr. Ulas Im (now at Aarhus University Denmark)

Dr. Stelios Myriokefalitakis (ongoing)

Dr. Sylvia Christodoulaki (ongoing/HCMR)

Dr. Georgios Fanourgakis (ongoing)

Dr. Maria Sfakianaki (ongoing)

Supervisor of the following PhD and Master works:

PhDs awarded:

1. Nathalie Poisson, Thèse d'Université de Paris 7, 1997 «Impact des hydrocarbures non méthaniques sur la chimie troposphérique» (now ADEME- Paris France)
2. Kostas Tsigaridis, PhD thesis, University of Crete, Dec, 2003 «Προσομοίωση της επίδρασης των οργανικών αερολυμάτων στην ατμόσφαιρα και στο ενεργειακό ισοζύγιο της με τη χρήση τρισδιάστατων μοντέλων» (Impact of organic aerosols on tropospheric chemistry and the energy balance of the atmosphere evaluated using a 3-dimensional global chemistry-transport model). (now research associate at Center for Climate Systems Research, Columbia University and NASA-GISS, New York, USA)
3. Mihalīs Vrekousis PhD Thesis, University of Crete, Nov, 2005 «Νιτρικές ρίζες: Ο ρόλος τους στο κύκλο του αζώτου και στην οξειδωτική ικανότητα της ατμόσφαιρας» (Nitrate radicals: Their role in nitrogen cycle and in the oxidising capacity of the atmosphere) (now researcher at The Cyprus Institute and Professor at the University of Bremen, Germany)
4. Lazaros Perakis, February 2008. «Αριθμητικές προσομοιώσεις της επίδρασης διαλυτών στη τροποσφαιρική χημεία» (Numerical simulations of the impact of solvents on tropospheric chemistry). (Περιφέρεια Κρήτης, Διεύθυνση αναπτυξιακού προγραμματισμού, τώρα με απόσπαση ως Research Programme Officer - Intellectual Property Rights - National Expert at European Commission)
5. Maria Sfakianaki, (Heraklitos grant) Dec 2007 «Σχηματισμός και κλιματικές επιπτώσεις των αιωρούμενων σωματιδίων στην Ανατολική Μεσόγειο –μελέτη μέσω ανάκτησης δορυφορικών δεδομένων» (Formation and climatic impact of aerosols in the East Mediterranean – a study based on satellite retrievals). (now at Doxastakis and post doc at ECPL)
6. Stelios Myriokefalitakis (PENED grant 03EΔ373) June 2009 «Μελέτη του ρόλου των ετερογενών αντιδράσεων στο τροποσφαιρικό όζον, το γίνεσθαι των αερολυμάτων και το ενεργειακό ισοζύγιο της ατμόσφαιρας βάσει 3-διάστατων προσομοιώσεων παγκόσμιας εμβέλειας, επίγειων και δορυφορικών παρατηρήσεων» (Study of the impact of heterogeneous reactions on tropospheric ozone, fate of aerosols and energy balance of the atmosphere by using global 3-d simulations and ground and satellite based observations). (now post doc researcher at ECPL)
7. Eirini Dermitzaki (PENED grant 03EΔ169) March 2010 «Μελέτη της επίδρασης διακριτών πηγών ρύπανσης στο τροποσφαιρικό όζον και στο ενεργειακό ισοζύγιο της ατμόσφαιρας στον Ελλαδικό χώρο με τη χρήση παρατηρήσεων εδάφους, δορυφορικών παρατηρήσεων και 3-διάστατων μαθηματικών προσομοιώσεων» (Study of the impact of distinct pollution sources on tropospheric ozone and on the energy balance of the atmosphere over Greece by using ground and satellite based observations and 3-d numerical modeling). (now teacher at the secondary education)
8. Sylvia Christodoulaki (July 2011) « Αριθμητικές προσομοιώσεις της επίδρασης της ατμοσφαιρικής εναπόθεσης αζώτου και φωσφόρου στο θαλάσσιο οικοσύστημα της Ανατολικής Μεσογείου » (Numerical simulations of the impact of atmospheric deposition of Nitrogen and Phosphorus on the marine ecosystem of the East Mediterranean). (now post doc researcher at HCMR and ECPL)
9. Nikolaos Daskalakis (February 2015) Numerical simulations of atmospheric chemistry and transport focusing on the oxidizing capacity of the troposphere and the organic aerosol (now post doc at CNRS, Paris).

PhD Thesis (on going):

- ✚ Dimitrios Amanatidis (started 2013) – WRF-CHEM regional simulations over the East Mediterranean
- ✚ Evangelia Tzitzikalaki (started 2013) – Amine observations and aerosol formation and growth modeling.

MScs awarded:

1. Kostas Tsigaridis (2000) «Αριθμητική προσομοίωση της επίδρασης των βιογενών υδρογονανθράκων στη χημική σύσταση της ατμόσφαιρας: Το δάσος του Πετρουλίου Τρικάλων» (Numerical simulation of the impact of biogenic hydrocarbons on the chemical composition of the atmosphere: The forest of Pertouli, Trikala)
2. Christos Donousis (2003) “Μελέτη της φωτοχημείας του θαλάσσιου στρώματος ανάμιξης στη περιοχή της Φινοκαλίας με τη χρήση ενός μοντέλου μηδέν διαστάσεων – Επίδραση των αλογονούχων ριζών” (Study of the photochemistry of the marine boundary layer at Finokalia using a 0-d model – Impact of halogen radicals)
3. Maria Sfakianaki (2002) «Προσομοίωση της χημικής σύστασης των αιωρούμενων σωματιδίων στο στρώμα ανάμιξης στην Ανατολική Μεσόγειο με τη χρήση θερμοδυναμικού μοντέλου» (Simulation of the chemical composition of aerosols in the boundary layer of the East Mediterranean using a thermodynamic model).
4. Eirini Sfakianaki (2005) «Αξιολόγηση τρισδιάστατων προσομοιώσεων του ατμοσφαιρικού κύκλου του θείου» (Evaluation of the 3-d simulation of the atmospheric sulfur cycle).
5. Nikos Galanis (2005) “Επίδραση Διαλυτών στα επίπεδα του τροποσφαιρικού όζοντος.» (Impact of solvents on the levels of tropospheric ozone).
6. Georgios Manoussakis (2006) “Ρυθμοί φωτοδιάσπασης του διοξειδίου του αζώτου και του όζοντος στο σταθμό της Φινοκαλίας: Μελέτη της διακύμανσης τους και επίδραση σε αυτούς του οπτικού πάχους της ατμόσφαιρας.” (Rates of NO₂ and O₃ photodissociation at Finokalia station: Study of their variability and their response to changes in the aerosol optical thickness of the atmosphere).
7. Stelios Myriokefalitakis (2006) «Ανάπτυξη χημικού κώδικα και εφαρμογή στη μελέτη της παγκόσμιας κατανομής της Γλυοξάλης και της Φορμαλδεΐδης με τη χρήση τρισδιάστατου μοντέλου» (Development of a chemical code and its application to the study of the global distribution of glyoxal and formaldehyde by using a 3-d global model)
8. Sylvia Christodoulaki (2007) “Επίδραση της ατμοσφαιρική εναπόθεσης αζώτου και φωσφόρου στη θαλάσσια παραγωγικότητα: Μονοδιάστατη μελέτη του Κρητικού Πελάγους” (Impact of atmospheric deposition of nitrogen and phosphorus on the net marine primary production: A 0-dimensional study of the Cretan Sea).
9. Despina Giannadaki (started 2006 –August 2007) Διακύμανση της ηλιακής ακτινοβολίας στη περιοχή της Ανατολικής Μεσογείου: Παράγοντες που την επηρεάζουν και επίδραση στο ισοζύγιο του όζοντος (Variation of the solar radiation over the east Mediterranean: factors that control it and impact on the chemical budget of boundary layer ozone).
10. Evaggelia Tzitzikalaki (Ιούλης 2008) Αριθμητικές προσομοιώσεις του σχηματισμού των σωματιδιακών θειούχων ενώσεων (θειικά και μετασουλφονικά ιόντα) στην Ανατολική Μεσόγειο (Numerical simulations of the formation of particulate sulfur species (sulfate and methanesulfonate) over the Eastern Mediterranean).
11. Georgia Tziriti (Σεπτέμβρης 2009) Επίδραση των Ετερογενών Αντιδράσεων πάνω σε Σωματίδια Σκόνης στην Τροποσφαιρική Χημεία του Στρώματος Ανάμιξης στην Ανατολική Μεσόγειο
12. Maria Katantonaki (Σεπτέμβρης 2009) Βιοκαύσιμα και Επίδραση τους στην Τροποσφαιρική Χημεία

13. Kristallia Sifakaki (Σεπτέμβρης 2009) Προσομοίωση της εκπομπής αέριων ρύπων από θερμοηλεκτρικούς σταθμούς. Εφαρμογή στους θερμοηλεκτρικούς σταθμούς της ΔΕΗ στην Κρήτη.
14. Eri Tzanaki (Σεπτέμβρης 2009) Διασπορά αέριων ρύπων που προέρχονται από τους θερμικούς σταθμούς ηλεκτρικής ενέργειας στην Κρήτη. Dispersion of air pollutants from the power plants in Crete.
15. Anthoula Strataki (Nov 2009) Μελέτη της χρονικής διακύμανσης του Ραδονίου 222 στο στρώμα ανάμιξης στη Φινοκαλιά (Study of the diurnal variability of Radon 222 in the boundary layer at Finokalia).
16. Nikolaos Daskalakis (Sept 2010) Evaluation of Organic Aerosol global 3-dimensional simulations.
17. Panajiotis Nikolidakis (Oct 2011) Αποτίμηση των περιβαλλοντικών επιπτώσεων σε μνημεία: Εφαρμογή στα ιστορικά τείχη του Ηρακλείου Κρήτης
18. Kallia Vrentzou (June 2012) Computations of the high resolution biogenic emissions of isoprene and their temporal variability in the East Mediterranean.
19. Grigorios Epitropakis (Sept. 2012) Απλοποιημένες προσομοιώσεις της θερμοκρασίας της γης
20. Dimitris Amanatidis (Feb. 2013) Εκτίμηση Φυσικών Εκπομπών ιχνοενώσεων στην ατμόσφαιρα: Βιογενείς πτητικές οργανικές ενώσεις

Diploma Thesis at UoC:

1. Ioannis Alexandropoulos (2001) Προσαρμογή Τρισδιάστατου Παγκόσμιας Κλίμακας Ατμοσφαιρικού Μοντέλου για την Προσομοίωση του τροποσφαιρικού Όζοντος. (Application of a global 3-d model to simulate tropospheric ozone).
2. Nikos Kalivitis (2001-2002) Photo dissociation rates calculation of trace gases using a numerical model of tropospheric chemistry
3. Nikos Galanis (2001-2002) Επίδραση Αριθμητικών Επιλυτών στους υπολογισμούς τροποσφαιρικής χημείας. (Impact of numerical solvers on the computations of tropospheric chemistry).
4. Stelios Myriokefalitakis (2004) Εφαρμογή χημικού μοντέλου μηδέν διαστάσεων για την προσομοίωση της φωτοχημικής παραγωγής του όζοντος σε θαλάσσιο στρώμα ανάμιξης της Ανατολικής Μεσογείου. (Application of a 0-d model to simulate the photochemical production of ozone in the marine boundary layer of the East Mediterranean).
5. Evaggelia Tzitzikalaki (2004-2005) Oxidation of dimethylsulfide in the boundary layer of Finokalia during summer of 2000
6. Nikitas Malliaros (Oct 2013) Επίδραση των NO_x και του Ισοπρενίου στη χημική σύσταση του ατμοσφαιρικού επιφανειακού στρώματος ανάμιξης

RESEARCH Activities:

Research responsibilities - ongoing:

- **Principal Investigator** of the ECPL/UoC (member of Steering Committee and WP leader) to Impact of Biogenic versus Anthropogenic emissions on Clouds and Climate: towards a Holistic Understanding (BACCHUS, EU/FP7) (Dec 2013-Nov 2017- 250 Keuro).

- **Coordinator** of the Pollution Alters Natural aerosol composition: Implications for Ocean Productivity, cLimate and air qualitY (PANOPLY 10/9/2012- 31/10/2015 – 400 Keuro)
- **Principal Investigator**, Atmospheric Deposition And MediterrANEan seawater productivity-(ADAMANT –THALES – 1/3/12 – 30/11/15 – 140 Keuro for UoC- Coordinator, NCMR- Dr. G. Petyhakis)
- **Co-Investigator** of the ECPL/UoC Contribution to the European Financed project PERSEUS (Protecting EuRopean SEas and boarders through the intelligent Use of Surveillance) (1/1/2012- 31/12/2015)

Research Responsibilities - past:

1. **Workpackage leader** et the European financed integrated project PEGASOS (Pan-European Gas-AeroSOls-climate interaction Study) (1/1/2011-31/12/2014) (80 Keuro)
2. **Principal Investigator** of the ECPL/UoC & FORTH-ICE-HT Contribution to the European financed project ECLIPSE (Evaluating the Climate and Air Quality Impacts of Short-Lived Pollutants) (1/11/2011-30/10/2014 -127 K euro)
3. **Principal Investigator** of the ECPL/UoC Contribution to the European financed project **CITYZEN** (megaCITY - Zoom for the Environment) (1/9/2008-31/8/2011) (200 Keuro)
4. **Co-Investigator** of the UoC Contribution to the European financed project **CIRCE** (Climate Change and Impact Research: the Mediterranean Environment) (2007-2010 : UoC-PI N. Mihalopoulos) (for modeling: 75 Keuro)
5. **Principal Investigator** of the UoC Contribution to the European financed project **EUCAARI** (European Integrated project on Aerosol Cloud Climate and Air Quality Interactions) (2007-2010) (70 Keuro)
6. **Principal Investigator** of the UoC contribution to the European Network of Excellence for Atmospheric Composition Change (**ACCENT**) (5 years project, 2004-2009) (50 Keuro for UoC + targeted travel funds)
7. **Principal Investigator** of the EPEAEK (Greek) project on “upgrading the under graduated studies at the Department of Chemistry, University of Crete” (1/4/2003-31/8/2008) (297 Keuro)
8. **Principal Investigator** of the Greek participation to the French – Greece Collaboration programme PLATON (2005-2007) (12 Keuro)
9. **Scientific responsible** for the PYTHAGORAS II grant on “Study of the relative contribution of the natural variability and the anthropogenic influence on the levels and the climate role of aerosols and ozone over the East Mediterranean and on a global scale” (1/5/2005 – 31/12/2007) (90 Keuro)
10. **Scientific responsible** for the HERAKLITOS grant from the Greek Ministry of Education (2002-2006) (35 Keuro).
11. **Scientific responsible** for the PENED 2003 grant 03EΔ373 from the General Secretariat for Research and Technology (1/12/2005-30/6/2009). (101 Keuro)
12. **Scientific responsible** (collaborating University) for the PENED 2003 grant 03EΔ169 from the General Secretariat for Research and Technology (2005-2008) (coordinated by the National Technical University of Athens, A. Papayannis). (39 Keuro)

13. **Scientific responsible** of the UoC contribution to the modeling WPs of the European financed project MAP (2006-2008: UoC- PI: E. Stephanou) (for modeling: 66 Keuro)
14. MOLI – workshop organization ESF grant June-Aug. 2005 (European Science Foundation supported workshop).
15. **Principal Investigator** of the EU financed project MOST (Multiphase chemistry of Oxygenated Species in the Troposphere) (started December 2001, ended May 2005, 11 partners from 8 countries, <http://lace.univ-lyon1.fr/most>). (154 Keuro)
16. **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, ended March 2005, 7 partners from 5 countries and JRC, <http://phoenics.chemistry.uoc.gr>) (350 Keuro for UoC)
17. **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, ended December 2004, 8 partners from 6 countries, <http://www.mpch-mainz.mpg.de/~reus/utopihan>) (133 Keuro)
18. **Principal Investigator** of the Greek participation to the German – Greece Collaboration programme entitled “Biomass burning over the Mediterranean region» (Oct. 2002-June 2005) (15 Keuro)
19. **Coordinator** - Organisation of the CACGP/IGAC International Symposium on ‘Atmospheric Chemistry within the Earth System: From Regional Pollution to Global Change - **ACES**’ that took place on Crete in Sept 2002 (<http://atlas.chemistry.uoc.gr/IGAC2002>) granted by EU (36 Keuro) and by the 25 yrs University of Crete
20. **Principal Investigator** of the Greek participation to the French – Greece Collaboration programme PLATON entitled “Processus contrôlant le niveau et la variabilité de l’ozone et des aérosols en Méditerranée orientale» (Nov. 1999-Nov 2001). (12 Keuro)
21. **Principal Investigator** of the programme entitled “Interactions between gas and particulate phase in the troposphere over Greece and on a global scale” financed by the University of Crete (ELKE) in 1998-1999.
22. **Principal Investigator** of the French Contribution to the **EU SINDICATE** (Study of Indirect and Direct Influences on Climate of Anthropogenic Trace Gas Emissions) programme for the 3 phases:
 - α. 1st phase: 1/93-4/95 (99 Keuro)
 - β. 2nd phase : 1/96-12/97 (130 Keuro)
 - χ. 3rd phase: 1/98-12/99 (110 Keuro French and Greek contribution)

Coordinator Prof. L. Bengtsson MPI-meteorology- Hamburg; Scientific manager: Prof. J. Lelieveld, MPI-Chemistry- Mainz & University of Utrecht.
23. **Principal Investigator** of the French Contribution to the GLOMAC (EUROTRAC) [1992-1995] that has been financed by the French Government in 1993 (50 KF) and in 1994 (18 KF), no funding has been asked for 1995.
24. **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) (230 KF)
25. **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: 300h CPU C-98; 1997: 300 CPU C-98).

26. **Principal Investigator** for the CFR of the French – Greek collaboration between the CFR (CNRS) and the University of Crete in 1995.
27. **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).

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.

SCIENTIFIC PUBLICATIONS:

More than 100 publications (2 Nature) in peer-reviewed international journals and 14 in reviewed books; 35 invited/ keynote talks at international conferences and workshops and more than 150 additional (oral and poster) presentations at international conferences. Citations (Scopus): >6000; h-factor 38. ResaerchID: D-7882-2012

Google scholars (31/5/2015) citations 8564; h-index: 42; i10-index: 79

Most cited article: Kanakidou et al., Atmos. Chem. Phys., 2015 (1228 citations Scopus)

Presentations at conferences after invitation (keynote/invited speaker):

1. Kanakidou M., S. Myriokefalitakis, P. Nikolaou, N. Daskalakis, C. Theodosi, A. Nenes, K. Tsigaridis , N. Mihalopoulos, Human impact on the role of dust as carrier of nutrients to the ocean, JM3 Geochemical Process and Cycles, IUGG Prague, 27-30 June 2015 (oral -invited)
2. Kanakidou M., Known unknowns in the oxidizing capacity of the atmosphere, Gordon Research Conference on Chemistry, USA, July 2013
3. Kanakidou M, Atmospheric fluxes of organic N & P to the global ocean, Duce Symposium, AMS, January 2013, Austin, USA.
4. Kanakidou M., Particle Formation: Processes and Modeling, Towards an Integrated Assessment System in South America: Air Quality Assesement and Forecasting in Megacities, San Diego, Chile, 9-12 January 2012

5. Kanakidou M., Megacities as hot spots of air pollution in the East Mediterranean: Results from the CITYZEN project, MEGAPOLI International Conference, 26-28 Sept. 2011 Paris.
6. Kanakidou M., and Tsigaridis K., Organic aerosols in the Earth System: An overview of our understanding , EGU, Vienna, April 2011
7. Kanakidou M. and Tsigaridis K., Organic aerosols in the Earth System: An overview of our understanding , IUGG, Melbourne, July 2011.
8. Kanakidou M., Synergistic use of chemistry-transport models and satellite observations: Focus on the East Mediterranean and the Black Sea, United Nations/Turkey/European Space Agency Workshop on Space Technology Applications for Socio-Economic Benefits, Istanbul, Turkey, 14-17 Sept. 2010. <http://www.tubitak.gov.tr/spaceworkshop>
9. Kanakidou M. and the East Mediterranean team, Impact of growing urbanisation on air quality and climate in the East Mediterranean - An overview of the first results from the CITYZEN project, EGU annual Conference, Geophysical Research Abstracts, Vol. 12, EGU2010-11547, 2010, EGU General Assembly 2010, Session AS3.7, Vienna, May 3rd, 2010.
10. Kanakidou M., Roland von Glasow, Laura Gallardo, How do marine emissions affect megacity air pollution? Megacities And The Coastal Zone, IGBP Fast Track Initiative meeting, Norwich, 13-15 April 2010.
11. Kanakidou M., Organic aerosols in the marine atmosphere: What do we learn from TM4-ECPL global model results and comparison with observations “ Secondary Marine Organic Aerosol Formation” COST Action 735 Working Group 1, Bologna (Italy) April 26-28, 2010.
12. Kanakidou M., Atmospheric composition changes in the global environment, MOCA 2009, Montreal, July 23, 2009 (keynote plenary)
13. M. Kanakidou, S. Myriokefalitakis, K. Tsigaridis, N. Daskalakis, Global Sources of Organic Aerosols in the Atmosphere: Reconciling model results with observations, paper presented at the Goldschmidt Conference, Davos, 23 June, 2009
14. Kanakidou M., Organics – more surprises to be expected ? IGAC-SPARC Joint Workshop “The One Atmosphere : Integration, Interface and Impacts, Kyoto, 25 Oct 2009.
15. Kanakidou M., Investigation of global budgets of reactive trace gases by synergistic use of model simulations and satellite observations, ACCENT workshop on Remote Sensing & Emission Inventories: Best of two worlds, IIASA, Dec. 5, 2007.
16. Kanakidou M., Global modeling of secondary organic aerosol (SOA) formation: Knowledge and Challenges, NATO advanced workshop on Simulation and Assessment of Chemical Processes in a Multiphase Environment, Alushta, Ukraine, 1-4 Oct., 2007.
17. Kanakidou M., Boucher O., Dentener F., Tsigaridis K., Vrekoussis M., Needs and challenges in improving current capabilities of chemistry- climate models, INTROP, ACCENT, EUROCAMP workshop on Aerosols – properties, processes and climate, Crete 21-25 April 2007.
18. Kanakidou M., Aerosols in Global Models – Focus on Europe, presented at the workshop on Regional climate variability and its impacts in the Mediterranean area, 23-27 November 2006, Marrakech, 2006.
19. Kanakidou M., Production, Properties, and removal of SOA – the fate of VOC – Volatile Organic Compounds in the Polluted Atmosphere, The 3rd ACCENT Barnsdale Expert Workshop, Oct 29- Nov 2, 2006.
20. Kanakidou M., Secondary Organics and Dust: Natural contributors to PM levels over Europe “Experience” from Crete, Contributions of natural sources to PM levels in Europe, JRC 12-13 Oct. 2006.
21. Kanakidou M., Transport and Transformation processes in the Eastern Mediterranean, presented at the ACCENT Hellenic day, October 2006.

22. Kanakidou M., Modelling Secondary Organic Aerosol Formation in the Troposphere: Knowledge and Challenges, EGU, AS3.02 Aerosol Chemistry and Microphysics (General Session), Vienna, April 4, 2006.
23. Kanakidou M., K. Tsigaridis, Secondary Organics Aerosol Involvement in the Feedbacks between biosphere, atmosphere and climate. Knowledge and Challenges, ILEAPS 1st Science Conference – Boulder, Jan 21-26, 2006.
24. Kanakidou M. and K. Tsigaridis, The role of secondary organics in aerosol formation: A global modelling approach, INTROP scientific workshop on “the routes of organics”, Jan 7-11, Alpes d’Huez, France 2006.
25. Kanakidou M. et al., PHOENICS & Global modelling of secondary organic aerosols – Natural versus Anthropogenic impacts, “The changing chemical climate”, 1st ACCENT Symposium, Sept. 12-16, Urbino, Italy, 2005
26. Kanakidou M., Modelling Secondary Organic Aerosol Formation in the Troposphere: Knowledge and Challenges, European Aerosol Conference, Gent, Belgium, August-Sept. 2005.
27. Kanakidou M., K. Tsigaridis, Secondary organic aerosol in climate models, uncertainties and involved feedback mechanisms, paper presented at the IGAC - iLEAPS - SOLAS workshop on organic aerosols and global change, 10. - 12.5.2004, Hyytiälä, Finland, 2004.
28. 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.
29. 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.
30. Kanakidou M., Marine Tropospheric Chemistry: Chemical Processes and Interactions with Transport. An Overview, presented at the EGS Conference, Nice, France, April 1998.
31. 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.
32. 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.
33. 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.
34. Kanakidou M., Chemical processes in CTMs, presented at the IGAC meeting, Fairfax, Virginia, US, 6-8 Dec, 1995.
35. 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.
36. 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. (presented by M. Kanakidou)

LIST OF PUBLICATIONS

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., Zahnie 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 Low Cl Atom Concentrations in the Troposphere, *Geophys. Res. Lett.*, **23**, 1529-1532, 1996.
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. Kotomarthi, 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 observations 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., Kriscke 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.
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