

Curriculum Vitae

Name: Kalliopi Violaki
Nationality: Greek
Address: Heraklion, Crete, Post. Code: 70006, Greece
e-mail: kviolaki@chemistry.uoc.gr

Education:

I. 2009 (May)

Doctorate in Environmental and Analytical Chemistry,
Department of Chemistry, University of Crete.

II. 2005 (July)

M.Sc in Environmental Sciences,
Department of Chemistry, University of Crete.

III. 2002 (March)

Bachelor in Chemistry, University of Thessaloniki

Languages:

I. Greek (mother tongue)

II. Certificate of Proficiency in English, University of Michigan.

III. Mittelstufe in German, Goethe-Institute

Research Experience:

-July 2014-today

Post Doc researcher in Earth and Atmospheric Sciences, Georgia Institute of Technology

Subject: Chemical speciation of atmospheric organic phosphorus

-2010-2014 (June)

Post Doc researcher in laboratory of Environmental and Chemical Processes in Chemistry
Department in University of Crete.

Subject: Biogeochemical cycle of nitrogen and phosphorus

-2004-2009

Researcher in laboratory of Environmental and Chemical Processes in Chemistry Department
in University of Crete.

Subject: Biogeochemical cycle of nitrogen.

-2000 (3 months)

Chemist in Department of Environment in Ministry of Macedonia and Thrace in Greece.

Subject: Determination of BOD and COD in waste water samples from industries, rivers (Loudia and Axio) and lakes (Koronia and Volvi). Also Mn and Pb were determined in aerosols samples from the atmosphere of Thessaloniki.

-1999 (6 months)

Chemist in Laboratory of Physical Chemistry in University of Thessaloniki.

Subject: “Photocatalytic oxidation of Nitrite and Ammonium in drinking water”

Experience in field measurements

-Participation in environmental sampling station of University of Crete¹

-Participation in aerosol sampling during ship cruise in South Atlantic Ocean in the frame of European research program OOMPH² (19 January- 28 February 2007)

-Participation in the international scientific research MESOAQUA-ATMOMED Experiment at the mesocosms facilities of the Hellenic Centre for Marine Research. (3-20 May 2012)

Seminars:

1. University of Crete, Department of Chemistry Heraklion, Crete, 4 November, 2012
"Training in Metrology in Chemistry" (www.trainmic.org)

2. Max Plank Institute and University of Utrecht, 7-13 October 2006.

“Autumn school on measurement techniques in atmospheric research”

3. University of Crete, Department of Chemistry Heraklion, Crete, 17-28 May, 2004
“Physicochemical Processes and Environmental Measurements”.

Analytical Skills:

-Chromatographic techniques such as IC, HPLC, HPLC-PAD and GC-FID

-Spectrophotometer analysis UV-Vis of TN & TP

-Analysis of Organic carbon (WSOC)

Teaching Experience:

-Laboratory assistant of undergraduate Analytical Chemistry. (1 semester)

-Supervisor of undergraduate students for Diploma and Master Thesis.

-Teaching Chemistry and Environmental Pollution in Greek High School.

¹ <http://finokalia.chemistry.uoc.gr>

² http://www.atmosphere.mpg.de/enid/40d050a08675c220a561969b4e23561c,0/Contact___Home/Home_4qb.html

Publications:

1. **Violaki Kalliopi**, Sciare Jean, Williams Jonathan, Baker Alex R., Martino Manuela and Mihalopoulos Nikos, Organic nitrogen in marine aerosols: A global perspective. Revised for Biogeosciences Discussions.
2. Longo Amelia F., Ellery D. Ingall, Julia M. Diaz, Michelle Oakes, Laura E. King, Nikolaos Mihalopoulos, **Kalliopi Violaki**, Anna Avila, Athanasios Nenes, Claudia R. Benitez-Nelson, Jay Brandes, Ian McNulty and David J. Vine, P-NEXFS Characterization of Phosphorus Composition in Mediterranean Aerosols, Geophysical Research Letters, Volume 41(11), 4043-4049, 2014. DOI:10.1002/2014GL060555
3. Im U., Christodoulaki S., **Violaki K.**, Zarbas P., Kocak M., Mihalopoulos N., Kanakidou M., 2013. Atmospheric deposition of nitrogen and sulfur over Southern Europe with focus on the Mediterranean and the Black Sea. Atmospheric Environment (81), 660-670, 2013.
4. **Violaki K.** and Mihalopoulos N. Urea: An important piece of WSON over the Eastern Mediterranean, Science of The Total Environment, 409 (22), 4796-4801, 2011. <http://dx.doi.org/10.1016/j.scitotenv.2011.07.060>
5. **Violaki K.** and Mihalopoulos N. Water-soluble organic nitrogen (WSON) in size-segregated atmospheric particles over the Eastern Mediterranean, Atmospheric Environment, 44, 4339-4345, 2010. [doi:10.1016/j.atmosenv.2010.07.056](https://doi.org/10.1016/j.atmosenv.2010.07.056)
6. **Violaki K.**, P. Zarbas and Mihalopoulos N.: Long-term measurements of water-soluble organic nitrogen (WSON) in atmospheric deposition in the Eastern Mediterranean: Fluxes, origin and biogeochemical implications, Marine Chemistry, 120, 179–186, 2010. [doi:10.1016/j.marchem.2009.08.004](https://doi.org/10.1016/j.marchem.2009.08.004)
7. Markaki, Z., Loÿe- Pilot, M.D., **Violaki, K.**, Benyahya,L., Mihalopoulos, N., Variability of atmospheric deposition of dissolved nitrogen and phosphorus in the Mediterranean and possible link to the anomalous seawater N/P ratio, Marine Chemistry, 120, 187-194, 2010. [doi:10.1016/j.marchem.2008.10.005](https://doi.org/10.1016/j.marchem.2008.10.005)

Manuscripts in preparation

1. **Violaki K.**, et. al., Atmospheric deposition of Phosphorus over the Eastern Mediterranean: Fluxes, origin and biogeochemical implications, in preparation.

Conferences:

1. **Violaki Kalliopi**, Panayiota Nikolaou, Kanakidou M & Mihalopoulos N, The influence of air mass origin to the solubility of atmospheric P, COMECAP, 12th International Conference on Meteorology, Climatology and Atmospheric Physics, 28-31 May 2014.
2. **Violaki Kalliopi**, Panayiota Nikolaou, Loÿe-Pilot Marie-Dominique, Bourrin François, Mihalopoulos Nikos. Atmospheric deposition of organic and inorganic dissolved nitrogen and phosphorus in the North Western Mediterranean, 40th CIESM Congress–Marseille, France, 28 October-1 November 2013. (poster presentation)
3. a) **Violaki K**, Kanakidou M & Mihalopoulos N, Phosphorus Speciation in Atmospheric Deposition Samples in the East Mediterranean,
b) Pitta, V., Krom, M.D., Tsagaraki, T.M., Giannakourou, A., Gogou, A., Lagaria, A., Mihalopoulos, N., Panagiotopoulos, C., Parinos, C., Rahav, E., Shi, Z., Tsiola, A., **Violaki, K.**, and Herut, B. Impact of Saharan dust and polluted Aerosol on the microbial food web on the Eastern Mediterranean-A mesocosm approach. GOLDSCHMIDT. Florence, Italy, August 25-30, 2013 (Both Oral Presentations)
4. Ulas Im, **Violaki Kalliopi**, Pavlos Zarpas, Sylvia Christodoulaki, Mustafa Kocak, Nikos Mihalopoulos, Maria Kanakidou, Vol. 15, EGU2013-2582, 2013 EGU General Assembly, 7-12 April 2013. Title:"Atmospheric nitrogen deposition over the Mediterranean, Black Sea and Europe as simulated by the WRF-CMAQ model system" (Oral Presentation)
5. **Violaki Kalliopi**, Mara Paraskevi, Spyros Apostolos, Kanakidou Maria, Mihalopoulos Nikos. 12^o IGAG Conference, 17-21 September, 2012, Beijing,China. Title:"Atmospheric deposition of P over the East Mediterranean" (Poster Presentation)
6. Christodoulaki S., Kanakidou M., Petihakis G., Mihalopoulos N., Tsiaras K., **Violaki K.**, Triantafyllou G., **Air Quality and Climate Change: Interactions and Feedbacks, ACCENT-Plus Symposium, 2011, Urbino.** Title: "Evaluating the importance of atmospheric deposition of nitrogen on the marine ecosystem in the east Mediterranean" (Oral Presentation)
7. **Violaki Kalliopi**, Zarpas Pavlos, Mihalopoulos Nikos, 10^o IGAG Conference, 7-12 September, 2008, Annecy-le-Vieux, France. Title:"Organic Nitrogen in Marine atmosphere" (Poster Presentation)
8. **Violaki Kalliopi**, Zarpas Pavlos, Mihalopoulos Nikos, 2nd SOLAS Open Science Conference, 6-9 March, 2007, Xiamen, China. Title: "Organic Nitrogen Cycle in East Mediterranean" (Poster Presentation)
9. **Violaki Kalliopi**, Zarpas Pavlos, Mihalopoulos Nikos, **Open Science Conference on the GHG Cycle in the Northern Hemisphere, 2006, Crete.** Title: "Organic Nitrogen Cycle in Eastern Mediterranean" (Poster Presentation)

- 10. Violaki K.** and N. Mihalopoulos, ACCENT- Workshop on Understanding and quantifying the atmospheric nitrogen cycle (convenors: Paul Monks, Tony Cox, David Fowler), 2005, Barnsdale. Title: Organic Nitrogen: An important missing piece of the Global Nitrogen cycle
- 11.** a) **Violaki Kalliopi**, Zampas Pavlos, Mihalopoulos Nikos, Title: "Organic Nitrogen: a missing piece of the nitrogen cycle in the Eastern Mediterranean" (Oral Presentation)
- b) Cecilia Arsene, Romeo-Iulian Olariu, **Kalliopi Violaki**, Nikolaos Mihalopoulos, Title: "Dissolved organic nitrogen deposition on land in the northeastern part of Romania" (Poster Presentation), 9^o IGAG Conference, 17-23 September, 2006, Cape Town.
- 12.** Cecilia Arsene, Romeo-Iulian Olariu, **Kalliopi Violaki** and Nikos Mihalopoulos, Workshop on Agricultural Air Quality, 2006, Washington, USA. Title:"Total Nitrogen Deposition on Land in the Northeastern part of Romania" (Poster Presentation)
- 13. Violaki K.** and N. Mihalopoulos, ACCENT- Workshop on Understanding and quantifying the atmospheric nitrogen cycle (convenors: Paul Monks, Tony Cox, David Fowler), 2005, Barnsdale. Title: Organic Nitrogen: An important missing piece of the Global Nitrogen cycle
- 14.** Poullos I, **Violaki K.** P.Tsoubaris, B.Katsougianopoulos, 6th International Conference of Environmental Science and Technology, 1999, Greece.
Title: Photocatalytic oxidation of Nitrite and Ammonium in drinking water. (Oral Presentation)