PERSONAL INFORMATION

Rita Traversi

Università di Firenze
Chemistry Department “Ugo Schiff” (DICUS)
Via della Lastruccia, 3, 50019, Sesto F.no (FI)

0

rita.traversi@unifi.it

https://www.unifi.it/p-doc2-2016-0-A-2b333c323b27-0.html

[redacted] | *Date of birth* | *IT*

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
☐ Mid-Management Level	X Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

RESEARCHER IDENTIFICATION CODES

ORCID ID: orcid.org/0000-0002-9790-2195 (https://orcid.org/0000-0002-9790-2195)

RESEARCHER ID: M-7586-2015 (http://www.researcherid.com/rid/M-7586-2015)

SCOPUS AUTHOR ID: 6603640442(https://www.scopus.com/authid/detail.uri?authorId=660364044

BIBLIOMETRIC INDEXES AT 29.06.2023

ISI WEB OF SCIENCE:
Number of publications: 136
Total citations: 4028
H-index: 32

SCOPUS:
Number of publications: 138
Total citations: 4152
H-index: 32

WORK EXPERIENCE

Oct 2018 - now
Associate Professor in Analytical Chemistry
University of Florence, Chemistry Department “Ugo Schiff” (DICUS)

Nov 2002 - Sep 2018
Permanent Researcher in Analytical Chemistry
University of Florence, Chemistry Department “Ugo Schiff” (DICUS)

EDUCATION AND TRAINING

1996-2000 PhD in Environmental Sciences, University of Florence

1990-1995 Master-level degree in Chemistry, University of Florence (110/110)

WORK ACTIVITIES

Awards AIRUSE Project (LIFE11 ENV/ES/000584) was awarded as Best LIFE+ project 2017 in the class "Green city". Ceremony of LIFE Best Project Awards was held at BluePoint Conference Centre at Bruxelles on 23.05.2018.

In May 2010, the European TALDICE (TALos Dome Ice CorE) project was awarded by the Minister of Environment and Territory and Sea Protection, Dr. Stefania Prestigiacomo, for the scientific excellence in the field of environmental research (http://www.taldice.org/prize/index.php). The award was delivered on 22.05.2010, i the framework of the ceremony for the “International Day of Biological Diversity”, at the presence of the President of Italian Republic Giorgio Napolitano.

Editorial activity Guest Editor in “Sensors” Journal (MDPI) Special Issue “Special Issue Sensors for Emerging Environmental Markers and Contaminants”

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English (Advanced - Equivalent C1 Level)
French (Elementary - Equivalent A2 Level)

Job-related skills Set-up and optimization of analytical methods (HPLC, ICP, ICP-MS, molecular spectrofluorimetry and spectrophotometry) for major and trace components in natural and synthetic matrices. Pollution in urban, peri-urban, and coastal settlements; bio-geo-chemical processes in the atmosphere and cryosphere at high latitudes. Reconstruction of paleo environment and paleoclimate from natural archives (ice and sediment cores).

Digital skills Understanding and use of common digital platforms and software (Microsoft Office, MacOS)

Other skills Keen to teamwork and to build effective professional relationships with internal and external co-workers; open to new approaches and changes of traditional strategies to improve efficiency

Selected publications in the last ten years (2012-2022)

1. **Becagli, S., C. Scarchilli, R. Traversi, U. Dayan, M. Severi, D. Frosini, V. Vitale, M. Mazzola, A. Lupi, S. Nava, R. Udisti.**
   Study of present-day sources and transport processes affecting oxidised sulphur compounds in atmospheric aerosols at Dome C (Antarctica) from year-round sampling campaigns. Atmos. Environ., 2012, 52, 98-108, doi:10.1016/j.atmosenv.2011.07.053.
2. **Traversi R., I.G. Usoskin, S.K. Solanki, S. Becagli, M. Frezzotti, M. Severi, B. Stenni, R. Udisti.**
   Nitrate in polar ice: a new tracer of solar variability.
   Solar Physics, 2012, 280, 237-254. doi: 10.1007/s11207-012-0060-3.
3. **De Angelis M., R. Traversi, R. Udisti.**
   Long-term trends of mono-carboxylic acids in Antarctica: comparison of changes in sources and transport processes at the two EPICA deep drilling sites. Tellus B, 2012, 64, 17331. Doi: 10.3402/tellusb.v64i0.17331
4. **Traversi R., S. Becagli, G. Calzolai, M. Chiari, M. Giannoni, F. Lucarelli, S. Nava, F. Rugi, M. Severi, R. Udisti.**
   A comparison between PIXE and ICP-AES measurements of metals in aerosol particulate collected in urban and marine sites in Italy. Nucl. Instr. Methods Phys. Research B, 2014, 318, 130-134.
5. **Severi M., S. Becagli, D. Frosini, M. Marconi, R. Traversi, R. Udisti.**
   A novel Fast Ion Chromatographic Method for the analysis of fluoride in Antarctic snow and ice.
   Environ. Sci. Technol., 2014, 48(3), 1795-1802. dx.doi.org/10.1021/es404126z.
6. **Traversi R., R. Udisti, D. Frosini, S. Becagli, V. Ciardini, B. Funke, C. Lanconelli, B. Petkov, C. Scarchilli, M. Severi, V. Vitale.**
   Insights on nitrate sources at Dome C (East Antarctic Plateau) from multi-year aerosol and snow records.
   Tellus-B, 2014, 66, 22550. http://dx.doi.org/10.3402/tellusb.v66.22550.
7. **Rugi F., R. Udisti, S. Becagli, D. Frosini, G. Giorgetti, G. Kuhn, M. Marconi, D. Monien, S. Nava, M. Severi, F. Talarico, R. Traversi. (Rita Traversi Corresponding Author)**
   One-million year Rare Earth Element stratigraphies along an Antarctic marine sediment core.
   Microchem. J., 2015, 122, 164-171. http://dx.doi.org/10.1016/j.microc.2015.04.020.
8. **Severi M., S. Becagli, R. Traversi, R. Udisti.**
   Recovering paleo-records from Antarctic ice-cores by coupling a continuous melting devices and Fast Ion Chromatography. Anal. Chem., 2015, 87(22), 11441-11447. doi: 10.1021/acs.analchem.5b02961.
9. **Traversi R., S. Becagli, S. Poluianov, M. Severi, S.K. Solanki, I.G. Usoskin, R. Udisti.**
   The Laschamp geomagnetic excursion featured in nitrate record from EPICA-Dome C ice core.
   Scientific Reports, 2016, 6, 20235. doi: 10.1038/srep20235.
10. **Traversi R., S. Becagli, M. Brogioni, L. Caiazzo, V. Ciardini, F. Giardi, M. Legrand, G. Macelloni, B. Petkov, S. Preunkert, C. Scarchilli, M. Severi, V. Vitale, R. Udisti.**
    Multi-year record of atmospheric and snow surface nitrate in the central Antarctic plateau. Chemosphere, 2017, 172, 341-354.
11. **Severi M., S. Becagli, L. Caiazzo, V. Ciardini, E. Colizza, F. Giardi, K. Mesgec, C. Scarchilli, B. Stenni, R. Traversi, R. Udisti.**
    Sea salt sodium record from Talos Dome (East Antarctica) as a potential proxy of the Antarctic past sea ice extent. Chemosphere, 2017, Volume 177, 266-274.
12. **Mezgec, K., X. Crosta, V. Masson-Delmotte, C. Baroni, M. Braida, V. Ciardini, E. Colizza, R. Melis, M.C. Salvatore, M. Severi, C. Scarchilli, R. Traversi, R. Udisti, M. Frezzotti.** Holocene sea ice variability driven by wind and polynya efficiency in the Ross Sea. Nature Communications, 2017, 8, 1334. DOI: 10.1038/s41467-017-01455-x.
13. **Giardi, F., R. Traversi, S. Becagli, M. Severi, L. Caiazzo, C. Ancillotti, R. Udisti.**
    Determination of Rare Earth Elements in multi-year high-resolution Arctic aerosol record by double focusing Inductively Coupled Plasma Mass Spectrometry with desolvation nebulizer inlet system. Science of the Total Environment, 2018, 613-614C, 1284-1294.
14. **Becagli S., Caiazzo L., Di Iorio T., di Sarra A., Meloni D., Muscari G., Pace G., Severi M., Traversi R.,** New insights on metals in the Arctic aerosol in a climate changing world, Science of the Total Environment 741 (2020) 140511. https://doi.org/10.1016/j.scitotenv.2020.140511.

15. **Traversi, R., S. Becagli, M. Severi, L. Caiazzo, M. Mazzola, A. Lupi, M. Fiebig, O. Hermansen, and R. Krejci**. 2021. Arctic haze in a climate changing world: the 2010-2020 trend (HAZECLIC). In: Moreno-Ibáñez et al (eds) SESS report 2020, Svalbard Integrated Arctic Earth Observing System, Longyearbyen, pp 105--117. https://doi.org/10.5281/zenodo.4293826.
16. **Caiazzo, L., G. Calzolai, S. Becagli, M. Severi, A. Amore, R. Nardin, M. Chiari, F. Giardi, S. Nava, F. Lucarelli G. Pazzi, P. Cristofanelli, A. Virkkula, A. Gambaro, E. Barbaro and R. Traversi.** 2021. Carbonaceous Aerosol in Polar Areas: First Results and Improvements of the Sampling Strategies. Atmosphere, 12, 320. https://doi.org/ 10.3390/atmos12030320.
17. **Caiazzo, L., Becagli, S., Bertinetti, S., Grotti, M., Nava, S., Severi, M., Traversi, R.** 2021. High Resolution Chemical Stratigraphies of Atmospheric Depositions from a 4 m Depth Snow Pit at Dome C (East Antarctica). Atmosphere, 12, 909. https://doi.org/10.3390/ atmos12070909.
18. **Becagli, S., C. Marchese, L. Caiazzo, V. Ciardini, L. Lazzara, G. Mori, C. Nuccio, C. Scarchilli, M. Severi, R. Traversi.** 2022. Biogenic aerosol in central East Antarctic Plateau as a proxy for the ocean- atmosphere interaction in the Southern Ocean, Science of the Total Environment, Vol. 810, 151285, https://doi.org/10.1016/j.scitotenv.2021.151285.
19. **Amore, A., Giardi, F., Becagli S., Caiazzo, L., Mazzola, M., Severi, M., Traversi, R.** 2022. Source apportionment of sulphate in the High Arctic by a 10 yr-long record from Gruvebadet Observatory (Ny-Ålesund, Svalbard Islands). Atmospheric Environment, 270, 118890.
20. **Moschos, V., Dzepina, K., Bhatt, D., Lamkaddam, H., Casotto R., Daellenbach K.R., Canonaco F., Rai, P., Aas, W., Becagli, S., Calzolai, G., Eleftheriadis, K., Moffett C.E., Schnelle-Kreis J., Severi, M., Sharma, S., Skov, H., Vestenius M., Zhang W., Hakola, H., Hellén, H., Huang, L., Jaffrezo J.-L., Massling, A., Nøjgaard, J.K., Petäjä, T., Popovicheva, O., Sheesley, R.J., Traversi, R., Yttri E.K., Schmale, J., Prévôt A.S.H., Baltensperger, U., El Haddad, I**. 2022. Equal abundance of summertime natural and wintertime anthropogenic Arctic organic aerosols. Nature Geoscience, https://doi.org/10.1038/s41561-021-00891-1.

Projects

MUR-PNRA 2022. “Concordia ATmospheric CHemistry – Observatory (CATCH-O). Principal Investigator.

2019-2020. “Collaborazione scientifica per la continuazione del Progetto Regionale PATOS (Particolato Atmosferico in TOScana)” - PATOS 3”. Principal Investigator

2018-ongoing. Project “GALP – Gruvebadet Atmosphere Laboratory Project 3693” in the framework of RIS - Research in Svalbard. Principal Investigator.

MUR PRIN 2017 ERC PE4. “Innovative Analytical Methods to study biogenic and anthropogenic proxies in Ice Cores (AMICO)”. Responsible of Research Unit.

MUR-PNRA 2018. “STEAR - Stratosphere-to-Troposphere Exchange in the Antarctic Region”. Responsible of Research Unit.

MUR-PNRA 2016. “SAMEECA. Scambi di Massa ed Energia tra Superficie ed Atmosfera in un Sito Antartico”. Responsible of Research Unit.

MUR-PNRA 2014. “LTCPAA - Long term measurements of chemical and physical properties of atmospheric aerosol at Dome C”. Principal Investigator.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Firmato digitalmente da:
RITA TRAVERSI
Università degli Studi di Firenze
Firmato il: 29-06-2023 15:09:29
Seriale certificato: 923991
Valido dal 01-03-2021 al 01-03-2024