
CURRICULUM VITAE

SURNAME AND NAME: **PASSANANTI MONICA**

NATIONALITY: Italian

RESEARCHER IDENTIFIERS: ORCID ID 0000-0003-4053-1191, Scopus Author ID 39161655400, ResearcherID N-7013-2016

WORK EXPERIENCE

12/2018 – in progress Assistant Professor (RTD-B)	<u>Topic:</u> Fate of nanoplastics in the environment Dipartimento di Chimica, Università degli Studi di Torino
08/2016 – in progress Post-doc	<u>Topic:</u> Fate and model of atmospheric clusters in chemical ionization mass spectrometers (ERC grants) INAR, Department of Physics, University of Helsinki, Finland Tutor: Prof. Hanna Vehkamäki
06/2014 – 12/2015 Post-doc	<u>Topic:</u> Reactivity of alkenes versus SO ₂ and its impact on organosulfate formation. (ANR and ERC grants) IRCELYON Institut de Recherches sur la Catalyse et l'Environnement de Lyon, CNRS, Lyon, France Tutor: Dr. Christian George
05/2013 – 05/2014 Post-doc	<u>Topic:</u> Impact of iron complexes photochemistry on radicals production in clouds aqueous phase. (ANR and Auvergne region grants) Institut de Chimie de Clermont-Ferrand (ICCF), University Blaise-Pascal, France Tutors: Dr. Gilles Mailhot and Dr. Marcello Brigante

EDUCATION AND TRAINING

03/2010 – 04/2013 PhD in Chemical Sciences	<u>Thesis title:</u> Xenobiotics in the environment. An investigation on the transformation kinetics, the environmental metabolites and their formation mechanisms. University of Naples Federico II, Italy Tutor: Prof. Maria Rosaria Iesce, co-tutor: Dr. Fabio Temussi
03/2008 – 10/2009 Master degree in Chemistry 110/110 cum laude	<u>Thesis title:</u> Synthesis and reactions with singlet oxygen of 2,5-diglycosylfurans in the preparation of molecules correlated to mimetics of sLe ^x . University of Naples Federico II, Italy Tutor: Prof. Maria Rosaria Iesce, Co-tutor: Dr. Flavio Cernola
10/2004 – 03/2008 Bachelor degree in Chemistry 110/110 cum laude	<u>Thesis title:</u> Green solvents in photooxygenation of furans. University of Naples Federico II, Italy Tutor: Prof. Maria Rosaria Iesce, Co-tutor: Prof. Marina DellaGrecia

PERSONAL RESEARCH FUNDING, GRANTS AND AWARDS

06/2018 – 12/2018	Principal investigator of the project "Insight into chemical changes during nanoplastics degradation in aquatic environment". Project for experiments at PoLux (STXM/NEXAFS), Synchrotron Beamline, Swiss Light Source (SLS), The Paul Scherrer Institute (PSI), Villigen, Switzerland. (Proposal ID: 20180904)
06/2018	Three-year research grants 2019-2021 (University of Helsinki funding). Successfully passed the first selection (approved 24 projects on 92). Second round under evaluation (17 projects will be granted). Total amount of grants: 150.000 euros. Role: principal investigator (Proposal ID: 1068044 and 1079496).
2010 - 2013	Full scholarship from MIUR (Ministero dell'istruzione, dell'università e della ricerca) to complete the graduate studies (PhD).
2004 - 2009	Scholarship from ADiSU (Azienda Pubblica della regione Campania per il Diritto allo Studio Universitario) to complete the undergraduate studies (during bachelor and master degrees).
12/12/2014	Best PhD thesis in chemical sciences (Premio Giacomino Randazzo 2013), assigned by Italian Chemical Society (SCI), section Campania.

SCIENTIFIC PRODUCTION**26** articles in peer review journals (Angewandte chemie, Science, JACS, Water Research, PNAS).**13** oral communications in international conferences.**8** poster communications in international conferences.

TEACHING ACTIVITIES

2018 - 2019	Assistant teacher in the courses " <u>Analytical chemistry with laboratory</u> ", Bachelor in Chemistry, Università degli Studi di Torino.
06/03/2017 – 17/03/2017 05/03/2018 – 16/03/2018	Assistant at the winter school " <u>Atmospheric Processes and Feedbacks and Atmosphere-Biosphere Interactions</u> ". School organized for master and PhD students. Hyttiälä, Finland.
2018 - 2019	Assistant teacher in the courses " <u>Leadership for sustainable change</u> " and " <u>Mass Spectrometry in Atmospheric Sciences and Environmental analysis</u> ", Faculty of Science, University of Helsinki.
2011 - 2018	Supervision and co-supervision of: 6 bachelor student, 4 master students, summer students and 2 PhD student (University of Turin, University of Naples Federico II, Université Blaise Pascale, University of Helsinki).
01/03/2010 – 28/02/2013	Teaching in <u>Chemistry and Organic Chemistry</u> (150 hours). Integrated didactic activities: teacher, laboratory and exam assistant. Faculty of Science, University of Naples Federico II.
01/06/2006 – 31/03/2007	Laboratory assistant in the courses " <u>General Chemistry</u> ", Faculty of Science. Collaboration for didactic activities (Call 2005/2006, University of Naples Federico II).

INTERNATIONAL COLLABORATIONS AND FIELD CAMPAIGNS

09/2016 – 11/2016 09/2017 – 11/2017 International Measurement Campaign	Measuring aerosol nucleation and growth under controlled conditions in the laboratory. CLOUD11 and CLOUD12 campaigns, CERN, Geneva, Switzerland.
10/2015 – 10/2015 12/2015 – 12/2015 International collaboration	Scanning transmission X-ray microscopy (STXM) analysis of aerosol particles at Synchrotron X-rays at the Swiss Light Source (SLS), The Paul Scherrer Institute (PSI), Villigen, Switzerland.
10/2013 – 11/2013 03/2014 – 04/2014 Field Campaign	Sampling and analysis of clouds aqueous phase. Puy de Dôme (PDD) research station of OPGC (Observatoire de Physique du Globe de Clermont-Ferrand), Clermont-Ferrand (France).

OTHER ACTIVITIES

2013 – 2019	Referee activity for international projects (ANR) and for international scientific journals: Chemosphere, Catalysis Today, Journal of Chemical Technology and Biotechnology, Free Radical Biology & Medicine
2017 - 2018	Member of the organization committee for the conference "Mathematics for Atmospheric-Biospheric Science 2017 and 2018", Levi, Finland, 20-24 November 2017 and Hyttiälä, Finland, 26-28 September 2018.
2018	Representative of staff (postdocs, lecturers, etc.) in the INAR Department Council.

PERSONAL SKILLS

Technical skills	Expertise in analytical chemistry, photochemistry, radical chemistry and organic chemistry. Expertise in atmospheric heterogeneous chemistry and photochemistry (interface solid-gas, liquid-gas). Expertise in environmental chemistry, in investigating abiotic transformations of chemicals in the environment, especially in direct and indirect photochemistry (kinetics, quantum yields, modelling).
Computer skills	Advanced user: Microsoft Office (Word, Excel, Power Point, etc.), graphic programmes (Photoshop, etc.), Adobe professional, ChemOffice, Scifinder, Sigma Plot, Origin, EndNote, ThermoXcalibur, Chromeleon and MestreNova, MATLAB, ToFTools. Basic user: Python.
Language skills	Italian (mother tongue), English (C1), French (C1).

SPECIALIST COURSES

2018	University Pedagogy 1 - Learning in Higher Education (Helsinki, Finland)
2017	Special Course in Theoretical Physics, Density-Functional Theory (Helsinki, Finland)
2017	Introduction to Python (Espoo, Finland)
2015	MATLAB training (Lyon, France)
2015	The second Sino-European School on Atmospheric Chemistry (SESAC2) (Shanghai, China)
2010	School of photochemistry – 5 th National course of introduction to photochemistry (Bologna, Italy)
2010	Theoretical-practical advanced courses of high-field Nuclear Magnetic Resonance (Naples, Italy)
2010	Theoretical-practical course of mass spectrometry GC-MS, ICP-MS, MALDI-TOF, ESI and MS/MS (Naples, Italy)
2008	Summer School on Green Chemistry (Venice, Italy)