Scientific Curriculum Vitae

Barbara D’Anna

Professional Information

Academic degrees: Dr. Rer. Nat., Tesi di Laurea
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A/ Education and Academic Career

Research Director at the Centre National de la Recherche Scientifique, CNRS (2015); • Researcher (CR1) at IRCELYON CNRS (2006); • Habilitation (HDR: Habilitation à Diriger des Recherches) – Physical Chemistry, University Claude Bernard - Lyon 1 (2011); • Post-Doc at the, LACE/CNRS, Lyon, France; • Post-Doc, U. California Irvine, USA (2005); • Post-Doc, QUT, Brisbane, Australia (2004); • Post-Doc, University of Oslo, Norway, (2002-2004); • Doctorate Degree in Natural Sciences (Atmospheric Chemistry), University of Oslo, Norway (with distinction) 2001.

Maternity leave in 2012.

B/Research Interests

Experimental Atmospheric Chemistry • Reactive Carbon in the Earth’s Atmosphere (Emissions, Transport and Photochemical Transformation) • Particle metrology and reactivity • Indoor Air Chemistry • Mass Spectrometry

C/International Experience and Collaborations since 2006

Visiting Scientist: European Photoreactor (EUPHORE), Mediterranean Center for Environmental Studies - Centro de Estudios Ambientales del Mediterraneo (CEAM), Valencia (E); • Institute for Atmospheric Chemistry, Leipzig, (G); Prof. H. Hermann; • University of Oslo, Norway (N) - Prof. C. J. Nielsen and Prof. A. Wisthaler; • University of Toronto, Canada - Prof. D. J. Donaldson; • Laboratory of Atmospheric Chemistry, Paul-Scherrer Institute, Villigen (CH), Prof. Markus Ammann; • Norwegian Institute for Air Research (NILU)- Norway (N); Dr. Matthias Karl; • Queensland University of Technology (QUT), Brisbane, Australia, Prof. Z. Ristovski et Prof. L. Morawska; • IPEV, Institut polaire français Paul-Emil Victor.

Field campaigns: • Pollution in the ARCTic System - (PARCS- Chantier Arctique), mesocosm studies in Svalbard, Norway, 2017; • The Aerosol Direct Radiative Impact on the regional climate in the MEDiterranean region (ANR-ADRIMED), Lampedusa, Italy 2014; • Sources of marine Aerosol particles in the Mediterranean atmosphere (ANR-SAM), Mesocosms experiment at the Marine Station, STARESO, Corse, 2013; • Evolution of particle matter: Effect of after treatment devices and impact of DPF regeneration on the formation of SOA (ADEME-CAPPNOR) 2015; • Vehicle Emission Studies (Particle Matter characterisation for Euro 5 Vehicles matter (Diesel and Gasoline) CAPPNOR 1 - CORTEA ADEME, 2013; • Hill Cap Cloud Thuringia Campaign, Thuringia, Germany 2010; • Household products using and indoor air quality: emission, reactivity and by-products (ADOQ-Primequal), 2011; • Atmospheric Degradation of Amines (ADA) in Euphor Reactor Chamber Valencia, Spain, 2010-2011; • Organic Fraction of urban aerosol : methodology for source apportionnement (FORMES - Primequal) Marseille 2008 and Grenoble 2009, France; • Niveaux,

C/ Publications
- 70 publications (+2 submitted) in peer-reviewed journals (h-index: 29; 1953 citations: March 28, 2017)
- 16 book chapters / official reports
- 10 invited talks at international conferences
- +140 presentations at conferences, symposia and workshops (Web of Science, March 28, 2017)

D/Funding ID
- 13 funded projects at the CNRS (since 2006, PI: 10, coordinator 3: over 1.9 Mio. EUR in total);

E/Patent

F/ Awards: Excellence Research Awards CNRS 2011 and 2015;

G/Students Supervision: 9 PhDs, 6 Master Students, 9 post-doc since 2006; 

H/Teaching: Photochemistry lectures, Air Quality, M2 SOAC, Univ. Lyon, 2017 Atmospheric Chemistry lectures from 2006-2016, M2 Department of Physics.

I/ Professional Service and Memberships
Group Leader at IRCELYON-CNRS, 35 people, 2015-2017; • Responsible for a CNRS National instrument an Aerosol mass Spectrometer (2007 - 2016); • Member of the CNRS-INSU commission Ocean and Atmosphere since 2014; • Member of a the "group de travail" Soot since 2014; •Organization of 3 international (ACS meeting, Denver, 2015; 4th Sino-French Joint Workshop on Atmospheric Environment Changing complexity of air pollution, Lyon, 2014; Aerosols - Properties, Processes and Climate (APPC), Slovenia, 2007) and 3 national (Colloque Groupe Français de Cinétique et Photochimie, 2014; Colloque INSU - Annecy 1er, France, 2013; Les aérosols atmosphériques : enjeux pour la physico-chimie de l’atmosphère et le climat, Colloque CNFGG, 2014)
• 1 summer school (Summer School on Soot particles, , Aussois, 2017); • Expertise for European Science Foundation, Agence Nationale de Recherche (ANR), Norsk Forniskograadet

I/ Five selected publications among 70 published (3 PNAS, 2 Chem. Rev.)