

GILLES MAILHOT

58 years old

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**Doctor in Physical Chemistry (photochemist) specialized in environmental chemistry (iron) with applications for water treatment and Atmospheric Chemistry.**

#### ***POSITION AND PRICES***

- Since October 2023 : **CNRS Research Director exceptional class**, Laboratoire de Météorologie Physique (LaMP) UMR CNRS 6016 and Institut de Chimie de Clermont-Ferrand (ICCF) UMR CNRS 6296, University Clermont Auvergne (UCA).
- October-November 2019: 2 months invited Professor at **Wuhan University, China**.
- 2016-2019: **President of chemistry committee for French Research National Agency (ANR)**.
- October 2014 : **CNRS Research Director 1<sup>st</sup> class**, ICCF and since February 2023 also LaMP.
- May 2014: **Shanghai government price** of high International Scientific and Technological Collaboration.
- 2014-2018 and 2022-2025: **CNRS Scientific Excellence Price**.
- 2013/2014 and 2019: **4 months invited Senior Scientist**, Shanghai Key Laboratory of Atmospheric particles pollution and Prevention, **Fudan University, Shanghai, China**.
- October 2006 to September 2014: **CNRS Research Director 2<sup>nd</sup> class**, Institut de Chimie de Clermont-Ferrand, UMR CNRS 6296, University Blaise Pascal (UBP).
- 1999-2000: **1 year of Associated Researcher, University of California, Berkeley, USA**.
- October 1992 to August 1999 and October 2000-september 2006 : **CNRS Associated Resarcler**, Laboratoire de Photochimie Moléculaire et Macromoléculaire, UMR CNRS 6505, UBP.

#### ***EDUCATION***

1997: **HDR (habilitation à Diriger les Recherches)**, Photochemistry, UBP, Clermont-Ferrand, France.

1989 to 1991: **Ph.D., Physical Chemistry**, UBP, Clermont-Ferrand. Title: The charge transfer in a coordination complex as process of polymerisation photoinitiation.

1989: **Master in chemistry**, experimental work on the acrylamide polymerisation photoinduced by a chromium(VI) and copper(II) bimetallic system in aqueous solution.

#### ***SCIENTIFIC EXPERTISE:***

- **Environmental aquatic chemistry and photochemistry** of natural waters.
- **Iron** chemistry and photochemistry in water.
- **Advanced oxidation processes** (TiO<sub>2</sub> and iron, Photobiodegradation, iron organic complexes, Photo-Fenton, persulphate activation).
- **Atmospheric chemistry and photochemistry** (cloud aqueous phase).

#### ***SCIENTIFIC PRODUCTION:***

- **210 original papers in international journal with reviewers. H-index = 51**, number of citations = 8255 (Research Gate 2024/03/26). **H-index = 53**, number of citations = 8995 (Google Scholar 2024/03/26).
- **170 oral communications** in international conferences or invited in foreign universities (75 lectures given personally, including **57 as a guest speaker**).

- 117 posters in international conferences.

**RESEARCH SUPERVISOR:**

- **30 PhD students** (27 awarded among them 11 in cotutelle with foreign universities)
- 20 Master students
- 23 post-doctor students or foreign colleagues, 7 Engineers
- 52 research projects, European, bilateral, PAI, French ANR, CPER, CNRS... (26 led among them 16 international).

**PROFESSIONAL EXPERTISE:**

- 02/2023- ... : **Director of Laboratoire de Météorologie Physique (LaMP)**, UMR CNRS 6016, University Clermont Auvergne.
- 2021- ... : **Director of an International Associated Laboratory** with Wuhan university (China) « Laboratory of Environmental Processes and Remediation » (35 researchers)
- 2012-2020: **Director of the Federation of Research in Environment** labelled by the Ministry of Research and Higher Education, CNRS FR 3467 and INRA. This Federation brings together 450 people belonging to 18 research laboratories (all associated with CNRS or INRAE) with a large multidisciplinary research.
- March 2012 to December 2016: **Advisor for the internationalisation of research** at the Clermont Auvergne University
- Strong involvement in **international collaborations** (China, USA, Czech Republic, Moldova, Italy, Argentina, Spain), many internships abroad.
- **Organization of international conferences and workshops**. Responsible for training mission.

**RECENT COORDINATION OF RESEARCH PROJECTS:**

- 2024-2026: French coordinator of the **European project Interreg Sudoe** « Transnational strategy for the detection and prevention of water pollution by PFAS (ALERT-PFAS) », 1.8 M€ including **540 k€** for the French partners.
- 2023-2026: Local coordinator and WP leader of the **ANR project**, AOPNANOP « AOPs: A powerful tool for nanoplastics mineralization in water », 572 k€ including **162 k€** for ICCF
- 2023-2026: **ANR PRCI** project REACTE « Transition metal ion (TMI) organic complexes photochemistry in tropospheric aerosols and clouds » with the Leibniz Institute for Tropospheric Research (TROPOS), Leipzig (Germany) (**359 k€**)
- 2022-2025: Project DEPHY « Environmental fate and photodegradation of acrylamide-derived water-soluble polymers » obtained within the framework of the French Recovery Plan with the **SNF company** (<https://www.snf.com/fr/>) (**320 k€**)
- 2022-2026: **IRP CNRS** (International Research Project) in partnership with Wuhan University on environmental treatments (32 permanent staff: 19 French and 13 Chinese) (**75 k€**).
- 2022-2025: Local coordinator and WP leader of the **ANR project**, SOAPHY « Single Organic Aerosol Particle HYdration and microphysical properties » 429 k€ including **51 k€** for ICCF
- 2015-2020: « Interaction between global change, biodiversity and environmental systems functioning» CPER (**Plan contract State Region**) funded by European Union, French government, Auvergne Rhône Alpes region and CNRS, **13.7 M€**.
- 2018-2021: « New sustainable technologies for the recovery of fluorinated gases » Project Interreg Sudoe KET4FGas funded by **European Union** (1.3 M€ including **154 k€ for ICCF**).