

CV – Catherine JOURNET

Date of birth: 3rd of December 1972

Age: 46 years old

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Present position: Full Professor (PR1) at Université Claude Bernard Lyon 1

Research unique identifiers:

- *ResearchGate* id: https://www.researchgate.net/profile/Catherine_Journet

- *Google Scholar* id: <https://scholar.google.fr/citations?user=o7NU2LwAAAAJ&hl=en>

- *Orcid* id: <https://orcid.org/0000-0002-3328-317X>

Academic record and education

- 2011-..., Full Professor at Université Claude Bernard Lyon 1
- 1999-2011, Assistant Professor at Université Claude Bernard Lyon 1
- 2010, Habilitation, Université Claude Bernard Lyon 1
- 1998-1999 : Post-doctoral position, Max-Planck-Institut für Festkörperforschung, Stuttgart, Germany (Lab. of Pr. Dr. K. Von Klitzing)
- 1995-1998, Phd in Condensed Matter on the production of carbon nanotubes (advisor: P. Bernier), Université Montpellier 2
- 1994-1995: DEA on polymers, interfaces and amorphous states, Université Montpellier 2
- 1990-1994 : Studies at Université de Toulon et du Var

Research activities

My research interests concern the synthesis and characterization of one-dimensional (1D) and two-dimensional (2D) boron- and carbon-based nanomaterials.

I was among the pioneering scientists in the nanotube field and the first one in France to produce carbon nanotubes.

I study the synthesis of carbon and boron nitride nanotubes using various techniques (electric arc discharge, Chemical Vapor Deposition (CVD), plasma Enhanced CVD (PECVD) and Hot Filament CVD (HFCVD)). I have also combined CVD synthesis with a field emission system to study in-situ the growth of a carbon nanotube atom by atom.

My current research interest deals with the synthesis of boron-based 2D materials, as well as Van der Waals heterostructures.

Bibliometry

- 73 publications in international journals with review comm.
- H-index = 33, more than 7700 citations (source WoS)
- 14 invited international conferences

Institutional responsibilities

- 2016-..., head of the “*Multiscale structuring of materials*” group in the LMI (~ 15 people), Univ. Lyon 1
- 2016-..., deputy director of the doctoral school of chemistry, Université de Lyon (300 students per year)

- 2010-2015, head of the International Master's degree "Nanoscale engineering", accredited Université de Lyon, co-habilitated by ECL/UCBL/INSA (60 students per year)

Commissions of trust

- 2018-..., Member of the editorial board of *JPhys Materials* (IOP Science)
- 2016-..., Member of the scientific council of the Laboratoire des Multimatériaux et Interfaces
- 2016-..., Member of the council of the Laboratoire des Multimatériaux et Interfaces
- 2010-2015, Member of the physics department committee, Université Lyon 1

Teaching activities

I have taught without any discontinuity since my Phd all levels and topics of physics and chemistry, from the 1st year of Bachelor level up to Master and Doctorate studies. This was spread in full lectures, as well as small classes and lab work.