

## Curriculum Vitae

Laure Catala

Professor of Inorganic Chemistry



**Institution:** Institut de Chimie Moléculaire et des Matériaux d'Orsay  
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### Carrier

- ❖ September 2016-: Professor of Inorganic Chemistry at Université Paris Sud/Paris Saclay
- ❖ 2001-2016 : Assistant professor at Université Paris Sud
- ❖ 1999-2001: postdoc in Pr. J. Veciana's group, ICMA B (CSIC, Bellaterra), Spain
- ❖ 1998-1999: Lecturer at Université Louis Pasteur, Strasbourg.
- ❖ 1995-1999: PhD at Université Louis Pasteur, Strasbourg, IPCMS UMR 7504/ Institut Charles Sadron UPR 22.

### Research activities

Expertise : Nanosciences - coordination chemistry

Keywords : nanoparticles— coordination networks- nanomagnetism- nanomedicine- contrast agents- theranostics magnetism— photomagnetism - spin crossover

**Scientific production : 54 publications, 32 oral communications (22 invited), h-index 24**

### Selected publications

- ❖ G. Paul, Y. Prado, N. Dia, E. Rivière, S. Laurent, M. Roch, L. Vander Elst, R. N. Muller, L. Sancey, P. Perriat, O. Tillement, T. Mallah, L. Catala\*, Mn<sup>II</sup>-containing coordination nanoparticles as highly efficient T1 contrast agents for magnetic resonance imaging, **2014**, Chem. Commun. 50, 6740.
- ❖ New method for the growth of single-walled carbon nanotubes from bimetallic nanoalloy catalysts based on Prussian blue analog precursors. A. Castan, S. Forel, L. Catala, I. Florea, F. Fossard, F. Bouanis, A. Andrieux-Ledier, S. Mazerat, T. Mallah, V. Huc, A. Loiseau, C.-S. Cojocaru, *Carbon*, **2017**, 123, 583-592
- ❖ L. Catala\*, T. Mallah, Nanoparticles of Prussian blue analogs and related coordination polymers: from information storage to biomedical applications, **2017**, Coord. Chem. Rev. 346, 32-61

### Awards/Distinctions

- ❖ Thesis price 1999 section Chemical physics of Université Louis Pasteur, Strasbourg.
- ❖ Junior Member of Institut Universitaire de France 2013-2018 (<http://www.iufrance.fr>)

### International Coordination activities

- ❖ Coordinator of Physics and Chemistry section in ECOS Nord Program (bilateral program with Mexico, Venezuela and Columbia) 2018-2022
- ❖ Coordinator of Short Training Missions of European COST Action MoSPIN 2016-2020
- ❖ Coordinator of M1 of the Erasmus + Master SERP+ (Porto/Poznan/Genova/Paris) and member of the Selection Board
- ❖ Referee for the American Chemical Society, Wiley, Royal Society of Chemistry...
- ❖ Referee for Fonds de La Recherche Scientifique (FRS-FNRS), Belgium
- ❖ Member of the International Jury for thesis Award of European Institute of Molecular Magnetism

### Current projects

Partner in ANR Femtospin, ANR Synapse, IRS Nanotherad (Paris Saclay)

**Languages:** Fluent in English and Spanish