



Prof Isabelle CHATAIGNER



Professor University of Rouen Normandie

MESOO team

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PROFESSIONAL EXPERIENCES

- 2017- **CNRS** extra position at the Laboratoire de Chimie Théorique, Paris
- 2014- **Professor** at the University of Rouen Normandy University, France.
Department of Chemistry
- 2016 and 2018 **Invited Professorship** positions at Tohoku University, Japan (1 month) and
Osaka Prefecture University (2 weeks)
- 1999-2013 **Associate Professor** at the University of Rouen Normandy University, France.
Department of Chemistry
- 1998-1999 **Post-Doctoral** Position at Università' degli Studi di Milano, Italy

EDUCATION

- 2009 **Habilitation**, University of Rouen Normandy, France^[1]_[SEP]
- 1994-1997 **Ph.D.** Organic Chemistry, University of Nantes, France.
- 1993-1994 **Graduation** in Organic Chemistry, University of Paris, France.
- 1990-1993 **ECPM** in Strasbourg (School of Engineers in Chemistry)

ADMINISTRATIVE & INSTITUTIONAL RESPONSIBILITIES

- 2017-2020 Member of the ANR CES07 scientific committee
- 2011-2017 In charge of the Master 2 program "Organic Chemistry and Analysis" at the
University of Rouen Normandy

RESEARCH INTERESTS

My research interests focus on the development of new synthetic methodologies involving dearomatization by cycloadditions or nucleophilic additions with the aim of applying them to the synthesis of complex molecules. I am also interested in the mechanistic aspects of these transformations, studied mainly by DFT calculations.

SCIENTIFIC ACHIEVEMENTS

Academic record (h-index: 21)

54 publications, 6 book chapters, 3 text books, 7 invited lectures (international and national conferences)

SUPERVISION ACTIVITIES

11 PhD students (3 on-going), 9 Post-Doctoral fellows (1 on-going), 1 research engineer

GRANTS AND FELLOWSHIPS

Recent Research Grants :

- INTERREG V grants (from the European Community, in collaboration with other French and British universities and companies (LabFact (2017-2021) and SmartT (2020-2023))
- ANR grant "ArDCo" from 2017 to 2021 – 3 partners – principal Investigator ^[1]_[SEP]
- SYNORG Labex grant (laboratory of excellence) from 2013 to 2017 ^[1]_[SEP]
- CRUNCH'ORGA (inter-regional research agency) grants in 2011, 2013, 2020. ^[1]_[SEP]

CONFERENCES

7 invited lectures (international and national conferences), 16 seminars abroad, 14 seminars in France

PUBLICATIONS

54 publications, 6 book chapters, 3 text books

Publications in 2019-2020:

- Rkein, B.; Bigot, A.; Birbaum, L.; Manneveau, M.; De Paolis, M.; Legros, J.; Chataigner, I. *Chem. Commun.* **2020**, DOI: 10.1039/D0CC06658C
- Maujean, T.; Chataigner, I.; Girard, N.; Gulea, M.; Bonnet, D. *Eur. J. Org. Chem.* **2020**, DOI : 10.1002/ejoc.202001339
- Loco, D.; Spezia, R.; Cartier, F.; Chataigner, I.; Piquemal, J. -P. *Chem. Commun.* **2020**, 56, 6632-6635. DOI: 10.1039/D0CC01938K
- Pérez, K.; Picard, B. ; Vuluga, D. ; Burel, F. ; Hreiz, R.; Falk, L.; Commenge, J.-M. ; Nagaki, A. ; Yoshida, J.-i. ; Chataigner, I. ; Maddaluno, J. ; Legros, J. *Org. Process Res. Dev.* **2020**, 24, 5, 787-791. DOI: 10.1021/acs.oprd.0c00203
- Manneveau, M. ; Tanii, S. ; Gens, F. ; Legros, J. ; Chataigner, I. *Org. Biomol. Chem.* **2020**, 18, 3481-3486. DOI: 10.1039/D0OB00582G
- Picard, B.; Perez, K.; Lebleu, T.; Vuluga, D.; Burel, F.; Harrowven, D. C.; Chataigner, I.; Maddaluno, J.; Legros, J. *J. Flow. Chem.* **2020**, 10, 139-143. DOI 10.1007/s41981-019-00057-6
- Birbaum, L.; Gillard, L.; Gérard, H.; Oulyadi, H.; Vincent, G.; Moreau, X.; De Paolis, M.; Chataigner, I. *Chem. Eur. J.* **2019**, 25, 13688-13693. DOI:10.1002/chem.201903455
- Picard, B.; Chataigner, I.; Maddaluno, J.; Legros, J. *Org. Biomol. Chem.* **2019**, 17, 6528-6537. DOI : 10.1039/C9OB00802K

- Pasturaud, K.; Rkein, B.; Sanselme, M.; Sebban, M.; Lakhdar, S.; Durandetti, M.; Legros, J.; Chataigner, I. *Chem. Commun.* **2019**, 55, 7494 -7497. DOI: 10.1039/C9CC02924A

- Marques, A.-S. ; Duhail, T. ; Marrot, J. ; Chataigner, I. ; Coeffard, V. ; Vincent, G. ; Moreau, X. *Angew. Chem. Int. Ed.* **2019**, 58, 9969–9973. DOI : 10.1002/anie.201903860

Book Chapters in 2019-2020

- Chataigner, I.; Maddaluno, J. in "Activation Methods : Sonochemistry and High Pressure, Volume 2 - Eco-compatibility of Organic Synthesis » , chapter entitled : "High Pressure Synthesis: An Eco-friendly Chemistry », **2019**. Iste Editions. ISBN : 9781786305107

- Chataigner, I.; Maddaluno, J. pour la Série "Principales avancées vers une synthèse organique écocpatible" Volume 2, chapitre intitulé: " Synthèse Organique sous Haute Pression : une Chimie Eco-compatible », **2019**, Iste Editions, ISBN : 9781784055295.

- Chataigner, I.; Maddaluno, J. *Techniques de l'Ingénieur* **2019**, Doc. CHV 1 610v2 : " Synthèse Organique sous Haute Pression"

Text Books in 2019-2020

- "Mémo Visuel de Chimie Organique", DUNOD ed., for 1st-2nd years students, 3rd edition to come in December 2020

- "La Chimie Organique en 200 Fiches", DUNOD ed., for 1st-3rd years students, 3rd edition in 2019