

Curriculum of Prof. Philippe ZINCK

Updated January 2024



CURRENT POSITION

2012-present **Full professor in chemistry at the University of Lille, France**
Group Leader
Dept.: Unity of Catalysis and Solid State Chemistry

RESEARCH INTERESTS

Catalysis for Functional and Sustainable Polymers, including
Fundamentals and applications of Coordinative Chain Transfer
Polymerization (CCTP) and chain shuttling polymerization,
Polymer carbohydrate coupling,
Design of biobased monomers and polymers,
Chemical recycling of plastics.

PREVIOUS POSITIONS

2004-2012 Assistant professor in chemistry at the University of Lille
Dept.: Unity of Catalysis and Solid State Chemistry
2003 Assistant Professor - University of Burgundy, Dijon, France
2002 Post-doctoral researcher at the Ecole Supérieure de Physique et Chimie
Industrielles de la Ville de Paris - ESPCI
2001 Post-doctoral researcher at the Polytechnic Federal School of Lausanne,
Switzerland - EPFL
2000 Post-doctoral researcher at the Weizmann Institute of Science, Israël

EDUCATION

1999 PhD in Polymer and Materials Science, National Institute of Applied
Science, INSA Lyon, France - Supervisor: Prof. Jean-François Gérard
1995 Master and Engineering Degree in Polymer and Materials Science,
National Institute of Applied Science, INSA, Lyon, France

SCIENTIFIC OUTPUT & BIBLIOMETRY

- 87 publications in peer-reviewed international journals
- 4 publications in popular science journals
- 8 book chapters
- 1 book
- 3 patents
- h-index 31 (google scholar)
- 18 plenary / invited lectures at international conferences
- 18 invited seminars in universities

SUPERVISION

- 18 PhDs (5 on-going)
- 10 postdoctoral researchers (1 on-going).

INSTITUTIONAL RESPONSIBILITIES:

- Member of the Strategic Board, IFMAS (French Institute for Biobased Materials) 2015-2018
- Member of the ANR (French National Research Agency) Evaluation Committee (CES6) on Polymer and composites materials 2017-2020
- Member (inter)national PhD examination committees since 2012, > 35 defenses

TEACHING ACTIVITIES

- Chemical Engineering - Technological Institute of the University of Lille
- Biobased Polymers - Technological Institute of the University of Lille and Biorefinery Master (one of the International Masters of the University of Lille)
- In charge of the International Relations Dept., Chemical Dept. of the Technological Institute of the University of Lille

EXPERTISE ACTIVITIES (SELECTED)

- **French National Research Agency (ANR):** Annual expertise of research proposals since 2012 – Member of the Polymer Chemistry & Physics Committee in 2018, 2019, 2020
- **HCERES (French High Council for the Evaluation of Research and University Teaching)** Expertise of the C2P2 Lab - Université de Lyon in 2020
- **French National Research & Technology Agency (ANRT):** Expertise of universities / companies joined research proposals 2016, 2017, 2020
- Agency for Science, Technology & Research - **A*STAR Singapore:** expertise of research proposal 2015
- European Community - Marie Skłodowska Curie Actions – Incoming Fellowships (**H2020-MSCA-IF**): expertise of research proposals 2017, 2018, 2020
- **FET OPEN** – Future and Emerging Technologies (European Community): expertise of research proposals in 2021

EDITORIAL ACTIVITIES

Member of the Editorial Board of:

- **Reviews in Environmental Science and Biotechnology** (Springer, IF 2017 5.72), Editor of the “Science Career” section 2011-2018
- **Molecules** (MDPI, IF 2020 4.41), Member of the Macromolecular Chemistry Section of the Editorial Board 2018-2022
- **Macromol** (MDPI, IF pending) since 2020
- **Frontiers in Chemistry** (IF 2021 5.22) Review Editor for the Polymer Chemistry 2014 – 2021 – Associate Editor since 2022
- **Mediterranean Journal of Chemistry** (IF 0.9) since 2012

MEMBERSHIPS OF SCIENTIFIC SOCIETIES:

- French Group of Polymer (Member of the North Section Board 2006-2022)
- French Chemical Society (Member of the North Section Board 2011-2016)
- Marie Curie Fellows Association (member of the Advisory Board 2002-2018)

SCIENTIFIC NETWORKS

National Level:

- GDR (Research group) IAMAT (Artificial Intelligence in Materials Science) 2022-
- GDR (Research group) Polymer and Oceans 2019-

European Level:

- COST (European Cooperation in Science and Technology) PRIORITY: Plastics monitoring detection Remediation recovery 2022-2025
- COST (European Cooperation in Science and Technology) EUFEN - European f-Element Chemistry 2012-2015

5 REPRESENTATIVE PUBLICATIONS

- J. Meimoun, C. Sutapin, G. Stoclet, A. Favrelle-Huret, P. Roussel, M. Bria, S. Chirachanchai, F. Bonnet, P. Zinck
Lactide Lactone Chain Shuttling Copolymerization Mediated by an Aminobisphenolate Supported Aluminum Complex and Al(OiPr)₃: Access to New Polylactide Based Block Copolymer
J. Am. Chem. Soc. 2021, 143, 50, 21206–21210
- Valente, G. Stoclet, F. Bonnet, A. Mortreux, M. Visseaux, P. Zinck
Isoprene–styrene chain shuttling copolymerization mediated by a lanthanide half-sandwich complex and a lanthanidocene: straightforward access to a new type of thermoplastic elastomers
Angew. Chem., 2014, 53, 4638-4641
- Y. Phuphuak, F. Bonnet, G. Stoclet, M. Bria, P. Zinck
Isoprene chain shuttling polymerisation between *cis* and *trans* regulating catalysts: straightforward access to a new material
Chem. Commun. 2017, 53, 5330-5332
- Y. Bernhard, S. Pellegrini, T. Bousquet, A. Favrelle, L. Pelinski, P. Gerbaux, P. Zinck
Synthesis of levulinic acid based poly(amine-*co*-ester)s
Green Chemistry, 2019, 21, 123-128.
- M. Lalanne-Tisné, S. Eyley, J. De Winter, A. Favrelle-Huret, W. Thielemans, P. Zinck
Cellulose nanocrystals modification by grafting from ring opening polymerization of a cyclic carbonate
Carbohydrate Polymers, 2022, 295, 119840