



COULEMBIER Olivier
Prof. Dr.

Functions: Research Director of the F.R.S.-FNRS & **AXA** Professor in Chemistry

Date of Birth: June 2nd, 1979

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- Institution:** University of Mons (UMONS), Center of Innovation and Research in Materials and Polymers (CIRMAP), Laboratory of Polymeric and Composite Materials (<http://morris.umons.ac.be/smpc/>)
- Professional Address:** *Mailing address:* Place du Parc, 23 - 7000 Mons, Belgium
Laboratory address: Avenue Maistriau, 19 - Mendeleiev Building, 3rd floor, room 352 – 7000 Mons, Belgium
- Laboratory Website:** <http://smpc2017.blue-horizon.be/macromolecular-engineering-and-energy/>
- Personal Website:** <https://green4chem.com/>
- Research Interest:** ***Sustainable polymer chemistry focused on designing innovative materials through biomimetic approaches, with applications in nanostructured systems and environmental solutions.***

Research General Overview

Research in the Coulembier group centers on macromolecular engineering inspired by biomimicry. Our portfolio encompasses multiple approaches to precisely control the synthesis of complex macromolecular architectures through the design of novel monomers, initiators, and on-demand catalysts.

Our primary focus lies in sustainable polymer science, encompassing green methodologies for polymer synthesis as well as innovative strategies to address plastic waste and valorize carbon dioxide. To translate our chemical discoveries into practical applications, we maintain close interdisciplinary collaborations with engineers, biologists, and medical researchers across academia and industry.

Professional History

- 2025 – present** Research Director, F.R.S. – FNRS (*Directeur de Recherche*) – University of Mons – Laboratory of Polymeric and Composite Materials; Macromolecular Engineering Section
- 2020 – 2025** Senior Research Associate, F.R.S. – FNRS (*Maître de Recherche*) – University of Mons – Laboratory of Polymeric and Composite Materials
- 2017 – present** Adjunct Professor of Chemistry (*Chargé de cours*), University of Mons
- 2008 – 2020** Research Associate, F.R.S. - FNRS (*Chercheur Qualifié*) – University of Mons – Laboratory of Polymeric and Composite Materials
- 2006 – 2008** Post-doctoral Researcher, F.R.S. - FNRS (*Chargé de Recherches*) – University of Mons-Hainaut – Laboratory of Polymeric and Composite Materials

Education

- 2008** Post-doctoral Research (2), Almaden Research Center of IBM (CA, USA), Supervisor: Dr James L. Hedrick
- 2006** Post-doctoral Research (1), Stanford University (CA, USA), Supervisor: Prof. Robert M. Waymouth
- 2001-2005** Ph.D. Degree, University of Mons-Hainaut (BE), Supervisor: Prof. Ph. Dubois, Thesis Title: « *Synthesis and characterizations of amphiphilic copolymers based on poly(β -malic acid)* »
- 2003** Post-graduate Diploma, University of Mons-Hainaut (BE), Mention: *Greatest Distinction*
- 2000** Teaching Qualification, University of Mons-Hainaut (BE), Mention: *Satisfaction*
- 1997-2001** B.Sc. (2nd class Honours), University of Mons-Hainaut

Teaching Activities

- 2025 – present** General Chemistry II (BAB 1 – CHIM, PHYS, BIO) – University of Mons
- 2016 – present** Organic Chemistry II: Mechanisms of Reactions (BAB 2 - CHIM) – University of Mons
- 2009 – present** Nanotechnology of Drug Targeting (Master 2 - CHIM) – University of Mons
- 2009 – present** Ring-Opening Polymerization (Master 1 & 2 - CHIM) – University of Mons

- 2007 – 2009** Nanotechnology of Drug Targeting (Master 2 - CHIM) – University of Mons-Hainaut
- 2006 - 2009** Polymerization by “Coordination-Insertion” (Master 1 - CHIM) – University of Mons-Hainaut

Awards & Recognitions

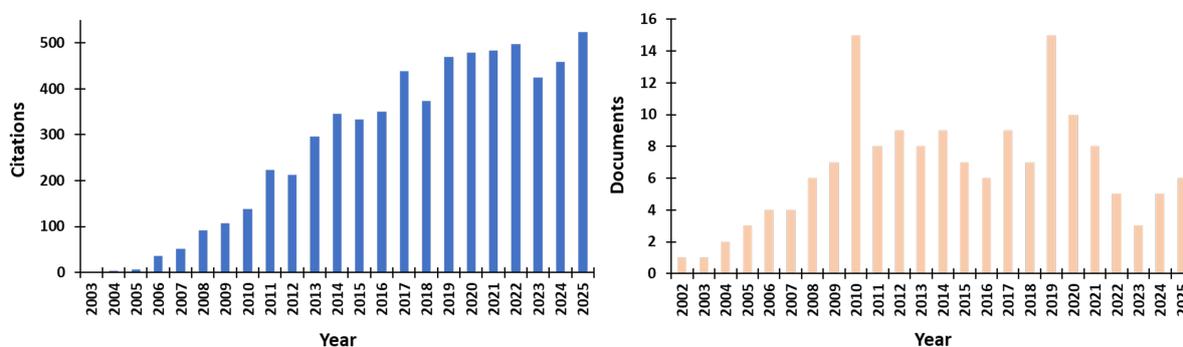
- 2025** Laureate of the “prix Louis Melsens” – Royal Belgian Academy
- 2024** Recipient of the Assucopie Grant for Scientific Article Publication - Belgium
- 2024** Recipient of the IAAM Scientist Medal – European Advanced Materials - Sweden
- 2022** Professor Holder of an AXA Chair in Chemistry
- 2021** Laureate of the “prix Agathon De Potter” of chemistry – Royal Belgian Academy
- 2021** Top cited paper “*Limitations of Ion Mobility Spectrometry – Mass Spectrometry for the Relative Quantification of Architectural Isomeric Polymers: A Case Study*” – 2020/2021 – Rapid Communication in Mass Spectrometry
- 2021** Top cited paper “*Cyclic Polymers: Advances in their synthesis, properties, and biomedical applications*” – 2020/2021 – Journal of Polymer Science
- 2020** Top downloaded paper “*Organocatalysis applied to the ring-opening polymerization of β -lactones: A brief overview*” – 2018/2019 – Journal of Polymer Science
- 2018** Finalist of the Young Investigation Award of the American Chemical Society
- 2018** Finalist of the IUPAC Award
- 2016** Finalist of the Carl Marvel Award of the American Chemical Society
- 2014** Laureate of the C.G.B.-C.B.B. incentive award – Royal Society of Chemistry – Belgium
- 2006** Stanford Grant Fellowship – United States of America
- 2005** Best communication selection– *Belgian Polymer Group Prize* – Belgium
- 2002** Best final work award – *Belgian Polymer Group Prize* – Belgium
- 2002** Best communication selection - *Belgochlor Prize* –Belgium

Memberships

- 2022 – present** Member of the QS Intelligence Unit as Education Expert

- 2022 – present** Member of the PhD course in Chemical Science – University of Messina, Italy
- 2013 – 2023** Member of the « Comité de Gestion du Bulletin des Sociétés Chimiques Belges »
- 2009 – 2022** Member of the “Agence Nationale de la Recherche”
- 2005 – present** Member of the « American Chemical Society »
- 2000 – 2016** Member of the « Belgian Polymer Group »
- 2000 - present** Member of the « Société Royale de Chimie » of Belgium

Scientific Contributions (Data Sources: Scopus & Google Scholar – December 2025)



- Publications:**
- Number of published papers: **157**
 - *h*-factor: **45**
 - *i-10* factor: **126**
 - Average citations per paper: **50.8**
 - Number of citations: **7979**

Book Chapters: 4

Patents: 5

Newsletter: 1

Supervision *from 2005 to January 2026*

- Master thesis:** 16
- Ph.D. thesis:** 20
- Postdoc students:** 12
- Trainee Fellowship Students:** 12