

CURRICULUM VITAE ET STUDIORUM: Dr. Francesca Parenti



Personal data: Born in Modena (Mo), 19/02/1974

Present Position: Associate Professor SSD CHIM06

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EDUCATION

- 1999** Degree in Chemistry (summa cum laude) at the University of Modena and Reggio Emilia with a thesis entitled "Sintesi di oligo e politiofeni β -sostituiti con gruppi 2-metilbutilsulfanilici"
- 2002** Ph. D. in Chemistry at the University of Modena and Reggio Emilia with a thesis entitled "Synthesis and characterisation of β -functionalised oligo and polythiophenes from new building-blocks"

PREVIOUS POSITIONS AND FELLOSHIPS

- Nov 2002- May 2005** Postdoctoral position at the Department of Chemistry, University of Modena and Reggio Emilia
- Jun 2005- May 2006** Grant from Spinner (for Business Creation, Action 1, Announcement BUR n. 90 del 14/07/04 Part III)
- Dec 2006-Aug 2021** Permanent position as researcher (CHIM/06 Organic Chemistry) at the University of Modena and Reggio Emilia (from 2007 to 2012 at the Faculty of Pharmacy and since 2013 at the Department of Chemical and Geological Sciences)
- Sep 2021-** Permanent position as Associate Professor (CHIM/06 Organic Chemistry) at the University of Modena and Reggio Emilia, Department of Chemical and Geological Sciences.

BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY

- Synthesis and characterisation of organic semiconducting polymers for optoelectronic devices
- Study of the ARGET (Activators ReGenerated by Electron Transfer) /ATRP (Atom Transfer Radical Polymerisation) of styrene.
- Synthesis of tripodal ligands
- Study of materials and crosslinked polymers incorporating dynamic bonds and meeting recyclability requirements

MAJOR COLLABORATIONS

- Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia: Prof. Franco Ghelfi, Prof. Andrea Cornia, Dr. Monica Caselli, Prof. Laura Pigani, Dr. Davide Vanossi, Dr. F. Tassinari
- UNIBO (Prof. M. Lanzi, Prof. B. Ballarin, Prof. L. Focarete and Prof. C. Gualandi)
- UNIPD (Prof. A. Gennaro and Prof. A. Isse)
- Weizmann Institute of Science, Rehovot, Israel (Prof. R. Naaman)
- ENI SpA, Research Centre Versalis, Mantova
- Rzeszów University of Technology, Chmielarz Research Group (Prof. Paweł Chmielarz)
- Ghent University, Polymer Chemistry Research Group (Prof. Dr. Filip Du Prez)

FUNDING AND PROJECTS

- From 05/11/2009 to 30/06/2010 UNIMORE Participant to the Agreement of Cooperation with ENEA for the "Realisation of organic semiconducting polymers for organic photovoltaic cells" ("Accordo di programma **MSE-ENEA**- Ricerca di sistema elettrico- Area: usi finali-Tema Tecnologie innovative di generazione di energia elettrica da fonti rinnovabili")
- From 22/03/2010 to 22/09/2012 Participant to the national research project **PRIN 2008** "A Theoretical/Experimental Integrated Approach To The Study Of The Electrochemical Processes Active In Direct-Ethanol Fuel Cell", research unit of Modena.
- From 15/12/2010 to 30/09/2011 UNIMORE participant to the Agreement of Cooperation with ENEA for the "Synthesis of organic semiconducting polymers for organic photovoltaic cells" (Accordo di programma **MSE-ENEA**- Ricerca di sistema elettrico-Area: produzione di energia elettrica e protezione dell'ambiente-Progetto: Ricerca su celle fotovoltaiche innovative" Piano Triennale della Ricerca nell'ambito del Sistema Elettrico Nazionale 2009-2011)
- From 16/01/2011 to 30/09/2012 UNIMORE participant to the Agreement of Cooperation with ENEA for the "Synthesis of new low band gap polymers for organic photovoltaic cells" (Accordo di programma **MSE-ENEA**- Ricerca di sistema elettrico-Area: produzione di energia elettrica e protezione dell'ambiente-Progetto: Ricerca su celle fotovoltaiche innovative" Piano Triennale della Ricerca nell'ambito del Sistema Elettrico Nazionale 2009-2011)
- From 16/04/2013 to 30/09/2013 UNIMORE participant to the Agreement of Cooperation with ENEA for the " Synthesis and characterization of new semiconducting polymers for organic photovoltaic cells" (Accordo di programma **MSE-ENEA**- Ricerca di sistema elettrico-Area: produzione di energia elettrica e protezione dell'ambiente-Progetto: "Energia elettrica da fonte solare-Ricerca su celle fotovoltaiche innovative" Obiettivo E: Sviluppo di celle organiche- Piano Triennale della Ricerca nell'ambito del Sistema Elettrico Nazionale 2012-2014)
- **FAR 2015** Principal Investigator of the project "Oligotiofeni funzionalizzati come materiali per dispositivi fotovoltaici e optoelettronici: sintesi e proprietà"
- **FAR 2017** Principal Investigator of the project "Studio teorico-sperimentale di sistemi oligotiofenici π -coniugati"
- **FAR 2020** Principal Investigator of the project "Organic semiconductors and biodegradable dielectrics for optoelectronics"

- **2021** Open contract with ENI Versalis for the “Development, Synthesis and post-functionalization of functionalized telechelic oligomers and polymers”
- **2022** Scientific supervisor of a PhD scholarship for the 38th cycle, co-funded by ENI-Versalis under Ministerial Decree No. 352/2022 within the NRRP, Mission 4, Component 2 “From Research to Business”, Investment 3.3, entitled “*Design, Synthesis and Characterization of Recyclable Polymeric Networks for High-Technology Applications.*”
- **2023** Scientific co-supervisor of a PhD scholarship for the 39th cycle, co-funded by ENI-Versalis under Ministerial Decree No. 352/2022 within the NRRP, Mission 4, Component 2 “From Research to Business”, Investment 3.3, entitled “*Eco-Sustainability and Olefin Chemistry: Development of Green Organometallic Compounds for Homogeneous Catalysis.*”

TECHNOLOGY TRANSFER

- 2005-2006** Grant from Spinner (for Business Creation, Action 1, Announcement BUR n. 90 del 14/07/04 Part III)
- 2006-2007** Grant from Spinner (for people with innovative business ideas and a high knowledge content) BUR-RER n. 90 del 14/07/04 Parte III dal 13-06-2006 al 13-06-2007
- 2026** Italian patent application No. 102025000034315, filed on 19 December 2025, entitled “*Adaptive Covalent Networks Based on Styrene–Acrylate Copolymers,*” jointly owned by Versalis and UNIMORE.
Italian patent application No. 102026000018079, filed on 22 June 2026, entitled “*Process for the Preparation of an Iron Bis(imino)pyridine Complex*” jointly owned by Versalis and UNIMORE.

TEACHING ACTIVITIES

- Lecturer of the course: “Elements of Organic Chemistry” (CHIM/06; 9 CFU) for the degree course in Herbal Techniques (Faculty of Pharmacy University of Modena and Reggio Emilia) (from the academic years **2007/2008** to **2008/2009**)
- Lecturer of the course: “Organic Chemistry” (CHIM/06; 7 CFU) for the degree course in Herbal Techniques (Faculty of Pharmacy University of Modena and Reggio Emilia) (from the academic years **2010/2011** to **2012/2013**)
- Lecturer of the II Level Master in “Chemicals management -REACH and CLP” University of Modena and Reggio Emilia (from the academic year **2012** till present)
- Lecturer of the course: “Organic Chemistry and Laboratory” for the initial formation of secondary school Lecturers (Tirocini Formativi Attivi, Department of Chemical and Geological Sciences at the University of Modena and Reggio Emilia) (academic year **2011/2012**)
- Lecturer of the course: “Organic Chemistry and Laboratory” for the initial formation of secondary school Lecturers ((Percorsi Abilitanti Speciali, Department of Chemical and Geological Sciences at the University of Modena and Reggio Emilia) (from the academic years **2013/2014** to **2014/2015**)
- Lecturer of “Organic Chemistry I (Lab)” (CHIM/06; 5 CFU) for the degree course in Chemistry (Department of Chemical and Geological Sciences at the University of Modena and Reggio Emilia) (from the academic years **2013/2014** to **2017/2018**)

- Lecturer of the course MOOC (Massive Open Online Course) “Verso la chimica sperimentale: introduzione al Laboratorio Chimico-Moduli 5, 6, 7”, piattaforma EDUOPEN (from the academic year **2016** till present)
- Lecturer of “Laboratory of Organic Chemistry I” (CHIM/06; 6 CFU) for the degree course in Chemistry (Department of Chemical and Geological Sciences at the University of Modena and Reggio Emilia) (from the academic years **2018/2019** to **2021/2022**)
- Lecturer of “Organic Chemistry of Macromolecules” (CHIM/06; 6 CFU) for the Master Degree Chemical Sciences (Department of Chemical and Geological Sciences at the University of Modena and Reggio Emilia) (from the academic years **2018/2019** till present)
- Lecturer of “Organic Chemistry I” (CHIM/06; 9 CFU) for the Degree Course in Chemistry (Department of Chemical and Geological Sciences at the University of Modena and Reggio Emilia) (from the academic years **2022/2023** till present)
- Lecturer for the course “Organic Chemistry with Laboratory” (CHIM/06; 9 ECTS credits) in the Bachelor’s Degree Programme in Green and Sustainable Chemistry in Mantova by the Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia (since the **2024/2025** academic year).

PARTICIPATION IN EDUCATIONAL PROJECTS AND PUBLIC ENGAGEMENT

- 2012-2015** Lecturer for the initial formation of secondary school Lecturers (Department of Chemical and Geological Sciences at the University of Modena and Reggio Emilia)
- 2014-** Laboratory activities for high school students (Progetto Lauree Scientifiche PLS - Chimica)
- 2009-2015** Participant to the event “Notte dei Ricercatori” in Modena
- 2023** Participant to the event “Notte dei Ricercatori” in Mantova
- 2024** Recipient of the 2024 Call for Funding to Support Public Engagement Activities for the project “*Mantova More Green: A Journey into Green and Sustainable Chemistry with the University of Modena and Reggio Emilia.*”

SUPERVISION OF PhD STUDENTS AND POSTDOCTORAL FELLOWS

- 2001-** Thesis supervisor of several students (in Chemistry, Chemical Sciences, Pharmaceutical chemistry and technology, Herbal Techniques)
- 2012-** Relatrice di tesi di Master di II Livello in “Gestione delle Sostanze Chimiche-REACH e CLP” Università di Modena e Reggio Emilia
- 2017-** Supervisor and Co-Supervisor of students of Doctoral Schools “Models and Methods for Material and Environmental Sciences” e “Physics and nanosciences”
- 2021-** Supervisor of a PhD student in “Models and Methods for Material and Environmental Sciences” (XXXVI cycle).
- 2022-2025** Supervisor of one NRRP-funded PhD candidate in the 38th cycle of the PhD Programme in “Models and Methods for Materials and Environmental Sciences,” in collaboration with ENI-Versalis S.p.A.
- 2023-2026** Co-supervisor of one NRRP-funded PhD candidate in the 39th cycle of the PhD Programme in “Models and Methods for Materials and Environmental Sciences,” in collaboration with ENI-Versalis S.p.A.

ACADEMIC DUTIES

- 2015-** Member of the Department Quality Assessment Group
2018-2022 Member of the Department Junta
- 2023-** Academic Reference for the establishment of UNIMORE's new Bachelor's Degree Programme in Green and Sustainable Chemistry.
- 2025-** Chair of UNIMORE's Bachelor's Degree Programme in Green and Sustainable Chemistry at the Mantua campus.

PEER REVIEW ACTIVITY

- 2015-** Peer Reviewer for:
New Journal of Chemistry, RSC, ISSN: 1144-0546
Express Polymer Chemistry, ISSN: 1788-618X
Chemistry Select, ISSN: 2365-6549
- 2016-** Member of REPRISE (register of scientific experts MIUR)

AWARDS

- 2006-** Winner of the competition "Intraprendere a Modena, l'idea si fa impresa" with the spin-off project "CHEM4"
- 2006-2007** Grant from Spinner (for people with innovative business ideas and a high knowledge content) BUR-RER n. 90 del 14/07/04 Parte III dal 13-06-2006 al 13-06-2007
- 2016-** National Scientific Enabling (ASN) for the position of associate professor in the sector **03/C1 Organic chemistry**

AFFILIATIONS

- Member of the Doctorate School "Science e technologies of health products" of the University of Modena and Reggio Emilia (from the academic years **2010/2011** to **2014/2015**)
- Member of the Interuniversity Consortium for the Science and Technology of Materials INSTM
- Member of the Division of Organic Chemistry of the Italian Chemical Society.

BIBLIOMETRIC INDICATORS AND SCIENTIFIC PRODUCTION

Source: SCOPUS

Total number of publications in scientific journals: **57**

Total number of book chapters: **2**

Total number of proceedings: **3**

Total number of citations: **1272**

h-index: **20**