

PERSONAL INFORMATION

PAOLA FABBRI



📍 Dipartimento di Ingegneria Civile, Chimica, Ambientale e dei Materiali
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Sex female | Date of birth 18.12.1974 | Nationality Italian

WORK EXPERIENCE

PERMANENT POSITIONS

since 2014 - current

Associate Professor in Materials Science and Technology, Department of Civil, Chemical, Environmental and Materials Engineering, Alma Mater Studiorum, University of Bologna (Italy)

from 2005 to 2014

Assistant Professor in Materials Science and Technology, Department of Engineering "Enzo Ferrari", University of Modena and Reggio Emilia (Italy)

RELEVANT ASSIGNMENTS

since 2021 - current

University of Bologna Rector's delegate for career planning and job placement
Vice-President of Almae Matris Alumni Association
Member of the Scientific-Technical Committee of Assobioplastiche

from 05/2016
to 12/2018

Key Senior Expert consultant in the BIOSPRI Tender Study "Study on support to R&I policy in the area of bio-based products (BBPs) and services", completed for the European Commission, DG RTD. Leader of the Task 3 "Top emerging bio-based products, their properties and industrial applications".

since 2018 - current

Representative of the University of Bologna inside the Members Board of the European Bioplastics Association

since 2003 - curreny

Trainer for "Corporate Advanced Courses" dedicated to industrial stakeholders, about properties of plastics for industrial use, criteria for materials selection, structure-properties correlations, polymer categories and features of commercial grades, selection criteria, polymer processing and end-of-life treatments for recycling and waste valorization.

PROFESSIONAL AND CULTURAL PROFILE

PF's reasearch activities and scientific interests are focused on the development of innovative polymer-based solutions for advanced industrial applications, and design of new strategies to sustain the implementation of the circular economy of plastics. This is achieved through the combination of chemical and manufacturing engineering skills, applied through the whole value chain of plastic materials, from raw materials and monomers, towards use and recycling. The promotion of renewable raw materials and innovative biotechnological routes for the production and waste-management of plastics has been intensively developed by means of direct collaboration with industrial stakeholders. Main research topics are:

- engineering polymers and composites for advanced applications in the automotive, construction, packaging and biomedical sectors;
- bio-based and biodegradable polymers chemistry and bioplastics processing technologies
- green chemistry applied to the synthesis of new sustainable plastic additives and natural fillers for sustainable composites
- surface modification of polymeric matrices through chemical methods and coatings;
- polymers recycling, mixed plastic waste compatibilization and EoL management of plastics and bioplastics; organic recycling of mixed plastics; industrial compositing; environmental biodegradability of plastics
- positioning of plastics in the circular economy schemes, renewable carbon exploitation
- plastics design for sustainability and plastics design for recycling.

EDUCATION AND TRAINING

- 1999 Master Degree in Industrial Chemistry at the University of Bologna (Italy), following courses related to the area of Research and Development of New Materials.
- 2000 01.03.2000-01.03.2001: Research fellow at the Department of Materials Science and Applied Chemistry of the University of Bologna, for the "Development of New Ionomeric Polyesters", sponsored by GE Plastic Division.
- 2000-2003 Master Course in Biomaterials at the University of Trento and Polytechnic of Milan (Italy), finally defending a thesis entitled "On the importance of Surface Properties in Polymeric Biomaterials". In year 2003 she defended her PhD thesis in Materials Engineering at the University of Modena and Reggio Emilia (Italy), entitled "Modification of Surface and Interfacial Properties in Polymeric Materials".
01.12.2002-28.02.2003: Research fellow at the Department of Materials and Environmental Engineering of the University of Modena and Reggio Emilia, for the "Surface Characterization of Polyethylene Films for Packaging Applications", sponsored by Tetrapak.
- 2004 01.03.2003-31.03.2004: Research fellow at the Department of Materials and Environmental Engineering of the University of Modena and Reggio Emilia, for the "Development of Polymeric Additives for Textiles", sponsored by Prochimica Novarese.
01.04.2003-31.07.2003: Research fellow at the Department of Chemistry "G. Ciamician" of the University of Bologna, for "Thermo-mechanical characterization of polymeric materials obtained by enzymatic polymerization" and "Surface characterization of polymeric materials through XPS analysis".
- 2005 01.08.2003- 15.10.2005 : Post-Doc position at the Department of Materials and Environmental Engineering of the University of Modena and Reggio Emilia.
- 2016 ASN Abilitazione Scientifica Nazionale as Full Professor of Materials Science and Technology

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2

ADDITIONAL INFORMATION

Scientific production

PF is author of 89 full papers published in high-ranking peer-reviewed international scientific journals quoted by Scopus, h-index 28, 2270 overall citations. She authored 4 book chapters and filed 4 WO patents as inventor.

Coordination of relevant competitive projects

2017: EC TENDER : Study on Support to R&I policy in the area of Bio-based Products and Services for DG-RTD R&I - European Commission.
2017: PRIN - Relevant Projects of National Interest - Development and promotion of the Levulinic acid and Carboxylate platforms by the formulation of novel and advanced PHA-based biomaterials and their exploitation for 3D printed green-electronics applications. Project VISION.
2013: SEAFRONT - FP7-OCEAN-2013, Collaborative Project, KBBE - Food, Agriculture and Fisheries and Biotechnology. OCEAN 3013.3 : Innovative antifouling materials for maritime applications.
2012: BIOSUPPORT - FP7-ENV-2012 Collaborative Project, ENV.2012.6.3-1 Innovative resource efficient technologies, processes and services: BIOMaterials from Sustainable Production Processes through Optimum Residues Transformation.
2011: BIOGENPACK - FP7-NMP-2011 Collaborative Project, NMP.2011.2.3-1: Advanced packaging materials from renewable biogenic resources.
2008: NAME - FP7-NMP-2008, Collaborative Project, NMP.2008-2.1-3: Preparation by pore design of nanostructured membranes (nSM's) by using innovative processing techniques.
2007: HI-COAT - FP7-NMP-2007 Collaborative Project, NMP.2007-2.1-2: Scratch resistant and low abrasion nanocomposite coatings with improved impact resistance (high-impact coatings)
From 2005 up to date: She led several Industrial projects about applied research and/or technical consultancy on themes related to the development of innovative plastic formulations and circular economy schemes, materials characterization and/or selection, polymer technology. Relevant collaborations with Bio on Spa, D3O Ltd, Greentech srl, GVS Filter Technology, Philip Morris, Pulsar, BBraun, among others

Industry-related research projects

29.01.2022 - Digitally signed - Paola Fabbri

Autorizzo il trattamento dei miei dati personali ai sensi dell'art. 13 del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e dell'art. 13 del GDPR (Regolamento UE 2016/679)