

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)	Raffaella Mossotti
Address(es)	Via Cavalieri di Vittorio Veneto 9, Carpignano Sesia (No)
Telephone(s)	+390321824608 +393331285645
E-mail	r.mossotti@bi.ismac.cnr.it
Nationality	Italian
Date of birth	05/29/1969
Gender	female

Occupational field **Textile research**

Work experience

Dates	09/16/1996-Nowdays
Occupation or position held	Researcher

Main activities and responsibilities	<p>- 2018 I am working on characterizations and quantification of microplastics for industrial stakeholders of textile field (Radici group and Eurojersey S.p.A).</p> <p>-2017 I worked in After Life activity of Life+ 13ENV/IT/001069 Mermaids and Life+ 12 ENV/IT/000439 GreenWoolF, in particular dissemination actions.</p> <p>I gained experiences about determination of microplastics contained in cosmetics.</p> <p>- 2013-2016 Project management and Research activity for Life+ 13ENV/IT/001069 Mermaids</p> <p>During the project, I worked for the mitigation of microplastic release from textile during washing cycle by study of innovative textile finishing. I gained experience in quantification of microplastics by SEM analysis (counting method), thermal analysis (DSC). Study of textile, washing factor that determine microplastic release during washing cycle of textiles.</p> <p>- 2012 -2016 Project Coordinator for Life+ 12 ENV/IT/000439 GreenWoolF. The project aim at demonstrating process to convert wool wastes into high value amendment-fertilizers using superheated water. I gained experience in coordination, dissemination, management and financial reporting of the project.</p> <p>- 2007-2010 Project Leader for HITEX project financed by the Piedmont Regional Government ((D.G.R n. 227 - 4715 del 27 November 2006): "Functionalization of textile materials by LTP PLASMA". During this project, I worked for the deposition of silicon layers obtained by plasma polymerization, starting from HMDSO monomer, in order to reduce the pilling tendency of wool textiles. I also developed pretreatments (activation and ablation) of the textile surface (wool) with reactive gas (O₂) and inert ones (Ar) to enhance the dyeability of the fabrics. I also setup ablation pretreatments of polyester fabrics with reactive gas (O₂) in order to proceed with the "in situ polymerization" of pyrrole to obtain conductive properties.</p> <p>I worked in the chemical sector, where I acquired expertise in chemical instrumental analysis (FT-IR, NIR, HPLC, SDS-page, analysis of proteins and enzyme activity). Moreover, I gained experience in the microscopy field (SEM, EDXS) and thermal analysis (DSC, TGA).</p> <p>I gained experience also in the finishing treatments of textiles like sol-gel, enzymes, coating using biopolymers, cyclodextrins and nanocapsules loaded with active agents for the drug delivery.</p> <p>During the last years I focused on green chemistry and on the study of microplastics release caused by textile washing processes.</p> <p>I worked on the chemical treatments and fibrillation processes of lignocellulosic fibers (hemp, linen, Curauá) in order to obtain reinforcing fibrils for the preparation of composites.</p>
Name and address of employer	Institute for Macromolecular Studies, National Research Council, (CNR-ISMAC) Corso G. Pella 16, 13900 Biella Italy
Type of business or sector	Public sector, research
Visiting Researcher	
Dates	Summer 2015
Title of qualification awarded	Researcher
Name and address of employer	IMA-UFRJ laboratories Instituto de Macromoléculas Professora Eloisa Mano Laboratório de Catálise para Polimerização, Universidade Federal do Rio de Janeiro Cidade Universitária Av. Horácio Macedo, 2.030 Centro de Tecnologia – Prédio do Bloco J CEP 21941-598 – Rio de Janeiro – RJ – Brasil
Principal subjects/occupational skills covered	Training on Preparation of biocomposites reinforced with cellulosic fibrils pre-treated to avoid the irreversible aggregation of the fibrils after drying (process known as "hornification") by using sol-gel.
Education and training	
Dates	1996 Dr in Science Biology Università degli Studi di Milano, Italy
Title of qualification awarded	Biologist
Thesis	Enzyme Purification and its use (Phospholipase from Streptomyces PMR)
Principal subjects/occupational skills covered	Purification of enzyme, protein analysis and characterization (SDS-Page, Molecular Weight, enzyme activity)

Name and type of organisation providing education and training
Istituto di Chimica degli Ormoni di Milano- CNR
Via Mario Bianco, 9 Milano Italy

Level in national or international classification
(remove if not relevant, see instructions)

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment

European level (*)

English
Language

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
	B1		B2		B1		B1		B2

(*) Common European Framework of Reference for Languages

Social skills and competences

I acquired good communication skills during the participation at specialized conferences and seminars, where I often contributed with oral presentation. Self-motivated, determination

Technical Skills and competences

Experience in quantifications of microplastics released from textile during washings.
Experience in chemical instrumental analysis (FT-IR, NIR, HPLC, SDS-page, analysis of proteins and enzyme activity), microscopy field (SEM, EDXS) and thermal analysis (DSC, TGA).
Experience in finishing treatments of textiles like sol-gel, enzymes, coating using biopolymers, cyclodextrins and nanocapsules loaded with active agents for the drug delivery..
green chemistry, identification and quantification of microplastics release caused by textile washing processes.
I worked on the chemical treatments and fibrillation processes of lignocellulosic fibers (hemp, linen, Curauá) in order to obtain reinforcing fibrils for the preparation of composites.
Skill about coordination, management, dissemination, financial reporting of European Projects..

Organisational skills and competences

Leadership
Sense of organization
Good experience in project and management

Additional skills

Great team working attitude

Driving licence

B - driving licence full

In compliance with the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.

Biella, 05/24/2018

Signature

Roberto Rossi