



UNIVERSITÀ DEGLI STUDI DI MILANO

DIPARTIMENTO DI CHIMICA



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Curriculum Vitae (March 2019)

Education

- 2006 PhD in Science, Technology and Chemical Processes, University of Genoa. Dissertation on *"Synthesis, characterization, performances and application fields of nanocomposite systems"*, supervisor Prof. Saverio Russo.
- 2002 Doctoral degree in Chemistry, University of Genoa. Dissertation on *"Immobilizzazione di proteine su polimeri iper-ramificati. Utilizzo di poliammidi aromatiche iper-ramificate come fase stazionaria per cromatografia a scambio ionico di proteine"*, supervisor Prof. Saverio Russo.

Current position

Assistant Professor In Industrial Chemistry (CHIM/04)

Previous positions

- 2015-2016 Post-doc fellow, University of Milan, Department of Chemistry, under supervision of Prof. Elisabetta Ranucci.
- 2011-2015 Post-doc fellow, Polytechnic of Turin, Department of Applied Science and Technology, under supervision of Prof. Giulio Malucelli.
- 2007-2011 Post-doc fellow, Polytechnic of Turin, Department of Materials Science and Chemical Engineering, under supervision of Prof. Giovanni Camino.
- 2006-2007 Post-doc fellow, University of Genoa, Department of Chemistry and Industrial Chemistry, under supervision of Prof. Saverio Russo.

Research interests

- Synthesis and characterization of **biocompatible and biometric polymers**:
 - ✓ Chiral polymers with adhesion cellular properties
 - ✓ Bioactive, biodegradable and biocompatible polymers with antimalarial activity
 - ✓ Hydrogels as scaffolds for tissue engineering applications and in vitro cell culturing
- Synthesis and characterization of **polymers with high thermal stability** and flame retardant properties;
- Chemical grafting of **synthesised polymers with desired properties** such as anti-bacterial, flame retardant and ion adsorption properties onto cellulosic substrates;
- Synthesis and characterization of **multifunctional resins** for the adsorption of heavy metals from wastewaters;
- Deposition of **functional coatings** through Layer-by-Layer assembly.

Total number of research products: **115**

Total number of citations: **3453**

h-index: 35

Published refereed publications: **109**

Book: 1

Published book chapters: **6**

Presentations as invited speaker at international congresses: **10**

Patents: **3**

Current teaching expertise

- **Lecturer** for the course on Macromolecular Chemistry, Laboratory module, in the Bachelor Course in Industrial Chemistry, University of Milan.
- **Lecturer** for the course on Polymer Chemistry, in the Master Course in Industrial Chemistry, University of Milan.

Recognition by peers

- **Editor** of Polymer Degradation and Stability edited by Elsevier (<https://www.journals.elsevier.com/polymer-degradation-and-stability/editorial-board>).
- **Member** of the Editorial Board of Journal of Fire Sciences edited by Sage Publication Ltd (<https://uk.sagepub.com/en-gb/eur/journal/journal-fire-sciences#editorial-board>).
- **Member** of the Editorial Board of Polymers edited by MDPI (<http://www.mdpi.com/journal/polymers/editors>).
- **Referee** for a certain number of peer-reviewed Journals in the field of polymer science, particularly polymers and polymeric materials exhibiting flame retardant properties (Polymers, Polymer Degradation and Stability, Carbohydrate Polymers, ACS Sustainable Chemistry & Engineering, ACS Applied Materials and Interfaces).

Funded grants in the past 3 years

Project title	Funding source	Period	Role
L-, D-, and D,L-Tryptophan-based polyamidoaminoacids	Piano di sostegno alla ricerca, 2018, Linea 2, Azione A	2018-2019	Principal Investigator
Biocompatible polyamidoamines for surface-confined flame retardancy of textiles	Piano Transition Grant 2015/2017 - Horizon 2020	2018-2019	Principal Investigator
Biomimetic water-soluble chiral polyamidoaminoacids for selective subcellular localization	Piano di sostegno alla ricerca, 2015/2017, Linea 2, Azione A	2017-2018	Principal Investigator
Chiral Polymers for biotechnological applications	Piano di sostegno alla ricerca, 2015/2017, Linea 2, Azione A	2016-2017	Principal Investigator

Recent publications (2018-2019)

Publications

1. Lazzari F, Manfredi A, **Alongi J**, Marinotto D, Ferruti P, Ranucci E. D-, L- and D,L-Tryptophan-Based Polyamidoamino Acids: pH-Dependent Structuring and Fluorescent Properties. *Polymers* **2019**, *11*, 543.
2. Lazzari F, Manfredi A, **Alongi J**, Mendichi R, Ganazzoli F, Raffaini G, Ferruti P, Ranucci E. Self-structuring in water of polyamidoamino acids with hydrophobic side chains deriving from natural α -amino acids. *Polymers* **2018**, *10*, 1261.
3. Manfredi A, Carosio F, Ferruti P, **Alongi J**, Ranucci E. Disulfide-containing polyamidoamines with remarkable flame retardant activity for cotton fabrics. *Polym. Degrad. Stab.* **2018**, *156*, 1-13.

4. Manfredi A, Carosio F, Ferruti P, Ranucci E, **Alongi J**. Linear polyamidoamines as novel biocompatible phosphorus-free surface-confined intumescent flame retardants for cotton fabrics. *Polym. Degrad. Stab.* **2018**, *151*, 52-64.
5. Carosio F, Ghanadpour, Alongi J, Wägberg L. Layer-by-layer-assembled chitosan/phosphorylated cellulose nanofibrils as a bio-based and flame protecting nano-exoskeleton on PU foams. *Carbohydr. Polym.* **2018**, *202*, 479-487.
6. Carosio F, Di Pierro A, **Alongi J**, Fina A, Saracco G. Controlling the melt dripping of polyester fabrics by tuning the ionic strength of polyhedral oligomeric silsesquioxane and sodium montmorillonite coatings assembled through Layer by Layer. *J Colloid Interface Sci.* **2018**, *510*, 142-151.
7. Battegazzore D, **Alongi J**, Duraccio D, Frache A. All natural high-density fiber- and particleboards from hemp fibers or rice husk particles. *J. Polym. Environ.* **2018**, *26*, 1652-1660.
8. Battegazzore D, **Alongi J**, Duraccio D, Frache A. Reuse and valorisation of hemp fibres and rice husk particles for fire resistant fibreboards and particleboards. *J. Polym. Environ.* In press. DOI:10.1007/s10924-018-1250-3.
9. Carosio F, **Alongi J**. Flame Retardant Multilayered Coatings on Acrylic Fabrics Prepared by One Step Deposition of Chitosan/Montmorillonite Complexes. *Fibers.* **2018**, *6*, 36.

Milan, March 2019

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