

PERSONAL INFORMATION

Mirko Buffagni



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Date of birth 28/11/1991 | Nationality Italian

EDUCATION AND TRAINING

11/2017–Present

PhD student

University of Modena and Reggio Emilia

Models and Methods for Materials and Environmental Sciences PhD Course

Project title: "A green way to polystyrene through a copper-catalyzed ARGET-ATRP: process study and possible applications"

04/2019–10/2019

Visiting Scholar

Matyjaszewski Polymer Group, Mellon Institute of Industrial Research, Carnegie Mellon University, Pittsburgh PA (USA)

03/2017–10/2017

Research Fellow

University of Modena and Reggio Emilia

Research agreement between the Department of Chemical and Geological Sciences and Versalis S.p.A. for the "Study of the synthetic mechanism of vinyl polymers via ARGET-ATRP with mono- and bi- functional initiators"

11/2014–02/2017

Master Degree in Chemical Sciences

University of Modena and Reggio Emilia

Thesis title: "Oligomeric Materials for Photovoltaic and Optoelectronic Devices: Retrosynthetic Study and Preparation of Thiophene-Based Functionalized Synthons"

Final grade: 110/110 cum laude

10/2010–10/2014

Bachelor in Chemistry

University of Modena and Reggio Emilia

Thesis title: "Study of Nucleophilic Substitution on Bichlorinated Pyrrolidinones"

Final grade: 99/110

ADDITIONAL INFORMATION

Publications

- Gelfi, F.; Ferrando, A.; Longo, A.; **Buffagni, M.** Polymerization process for the synthesis of vinyl aromatic polymers with a controlled structure. Patent WO 2019215626, November 14, 2019.
- Parenti, F.; Caselli, M.; Vanossi, D.; **Buffagni, M.**; Imperato, M.; Pigani, L.; Mucci, A. Optoelectronic Properties of A-π-D-π-A Thiophene-Based Materials with a Dithienosilole Core: An Experimental and Theoretical Study. *ChemPlusChem* **2019**, 84, 1314–1323.

Conferences

- XIX Chemistry Day of Emilia-Romagna 2019 (poster contribution)
- XVIII Chemistry Day of Emilia-Romagna 2018 (oral contribution)
- XXXIX Conference-School "Mario Farina" 2018 - National conference - Processing of Polymeric Materials - Bertinoro (FC), Italy

- Thesis advisor**
- Title: "Study of the anomalous cross-linking of styrene in an ARGET-ATRP environment without the use of cross-linking agents" Student: Niccolò Braidi
 - Title: "Polymerization of styrene in AcOEt/EtOH from 2-chloroisobutyrate (ECiB) via copper-catalyzed ARGET-ATRP, using ascorbic acid as a reducing agent" Student: Eleonora Adonella Salati
 - Title: "Branching and cross-linking of styrene in copper catalysed ARGET-ATRP with ascorbic acid, sodium carbonate, and ethyl 2,2-dichloropropanoate as initiator" Student: Valentina Buzzoni
- Teaching**
- University of Modena and Reggio Emilia
- Lessons with exercises for the structure determination of organic compounds through $^1\text{H-NMR}$ and IR spectroscopy Bachelor degree course in Chemistry
 - Assistance in didactic laboratories Bachelor degree course in Chemistry
 - Assistance in didactic laboratories Master degree course in Chemical Sciences
 - Team-based learning assistant Bachelor degree course in Natural Sciences