

## Curriculum

**1995:** Degree in Chemistry (Summa cum Laude), University of Pisa

**1997:** Research assistant at the Department of Chemistry, under the supervision of Prof. Howard Alper, University of Ottawa, Ottawa, Canada (june-december).

**1999:** PhD degree in Chemical Sciences

**2000-2007** Post-Doctoral research activity at the Department of Chemistry and Industrial Chemistry, University of Pisa

**2008** Lecturer (Ricercatore) in Organic Chemistry at the Department of Chemistry and Industrial Chemistry, University of Pisa

## Recent Projects and collaborations

**Participant to:** "SUNRISE: Concentratori solari luminescenti NIR riflettenti", **Progetto PRA\_2020\_21** founded by **University of Pisa**.

**Participant to:** "Rivestimenti polimerici a base di pigmenti organici NIR riflettenti" **Progetto PRA\_2017\_28** founded by **University of Pisa**.

**Participant to:** "Nuovi materiali organici per la concentrazione e l'utilizzo dell'energia solare". **Progetto PRA\_2015\_0038** founded by **University of Pisa**.

**Participant to:** - "Towards a Cheap and portable Instrument for bioAnalysis based on enantiospecific luminescence and absorption essays. (CHIRALAB), **2019-2022. PRIN Project, founded by Ministero dell'Istruzione, dell'Università e della Ricerca**.

**Participant to:** - "AQUEOUS PROCESSABLE POLYMER SOLAR CELLS: FROM MATERIALS TO PHOTOVOLTAIC MODULES. 2014-2015. **PRIN Project, founded by Ministero dell'Istruzione, dell'Università e della Ricerca**.

**Author** of more than 45 Peer-reviewed scientific articles and 30 scientific contributions to national and international conferences.

**Reviewer** activity for: *Chemical Communications; RSC Advances; European Journal of Organic Chemistry; Applied Catalysis A General; Journal of Molecular Catalysis A: Chemical; Applied Organometallic Chemistry, ChemCatChem, Dalton Transactions, Dyes & Pigments, Catalysts, Molecules*.

## Main Research Interests

- Synthesis and characterization of new chiral oligothiophenes for innovative optoelectronic applications
- Carbonylative cross coupling reactions and their application to the synthesis of heterocyclic compounds
- Synthesis of polyaromatic molecules as potential Luminescent Solar Concentrators
- Silylformylation – fluoride-assisted aryl migration reactions as versatile approach to polyfunctionalised compounds
- Preparation of metal (Pd, Rh, Pt, Au) nanoparticles by means of the MVS technique and their applications as catalytic precursors in cross-coupling reactions