

Curriculum vitae

Personal Data

Name Marco
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Current Position

Post-doctoral research fellow at Scuola Normale Superiore.

Education

November 2015 Dottorato in Scienze Chimiche (XXVIII ciclo) at Università degli studi di Milano. "Chiral transition metal complexes: synthesis, characterization, applications."
September 2012 Laurea Magistrale a ciclo unico in Chimica e tecnologie Farmaceutiche (E15) at Università degli studi di Milano (110/110). "Ru(II) diammino difosfine chirali al centro metallico: sintesi, caratterizzazione e applicazioni catalitiche nella riduzione di chetoni prochirali." (Ru(II) diammine diphosphine complexes chiral at the metal centre: synthesis, characterisation and catalytic activities in the reduction of prochiral ketones.)

Positions

May 2016 Post-doctoral research fellow at Scuola Normal Superiore (Pisa, Italy); Advisor: Prof. V. Barone; **Project:** "Calcolo di parametri spettroscopici per sistemi metallo-organici in soluzione ed in matrici polimeriche" (Calculation of spectroscopic parameters of metal-organic systems in solution and polymeric matrices) ; ERC: "Development of a Research Environment for Advanced Modelling of Soft Matter".
Jun - Dec 2015 Research fellow at Università della Calabria (Rende, Italy); Advisor: Prof. I. Aiello; **Project:** Development of new luminescent Ir(III) chiral complexes; "NUOVALUCE" - POR CALABRIA .FESR,
Gen - Dec 2014 Research fellow at Università degli studi di Milano (Italy); Advisor: Prof. E. Cesarotti; **Project:**"Caratterizzazione chimica, chimico fisica e studio delle interazioni con la sfera biologica di acetati polialogeno sostituiti di cationi metallici bivalenti" (Chemical characterisation and biological interaction investigation of halogenated acetates of divalent metal cations).

Conferences and Schools

October 2016 "IV National Congress of the Division of Theoretical and Computational Chemistry of SCI" (DCTC2016), Pisa (Italy) October 3-5 2016; poster: "Simulation of accurate vibrationally resolved phosphorescence spectra".

- July 2015 "21st Conference on Organometallic Chemistry" (EuCOMC XXI), Bratislava July 5-9 2015; poster: "Structure and Vibrational Circular Dichroism (VCD) of luminescent chiral Ir(III) complexes".
- September 2014 "XXV National Congress of SCI" (SCI2014), Arcavacata di Rende (Italy) September 7-12 2014; oral communication: "Donor-acceptor properties of atropoisomeric diphosphines in nickel dicarbonyl and rhodium chloro-carbonyl complexes".
- September 2013 "9th International School of Organometallic Chemistry", Camerino (Italy) August 30 - September 3 2013; poster: "Enantioselective transfer hydrogenation of aryl-ketones and stereochemistry of the metal centre by NMR and CD spectroscopy".

Publications

- **Enantioselective Transfer Hydrogenation of Aryl Ketones: Synthesis and 2D-NMR Characterization of New 8-amino-5,6,7,8-tetrahydroquinoline Ru(II)-complexes I.** Rimoldi, G. Facchetti, E. Cesarotti, M. Pellizzoni, M. Fusè, D. Zerla, *Current Organic Chemistry* **2012**, 16, 2982–2988.
- **Diastereoselectivity and catalytic activity in ruthenium complexes chiral at the metal centre** D. S. Zerla, I. Rimoldi, E. Cesarotti, G. Facchetti, M. Pellizzoni, M. Fusè, *Journal of Organometallic Chemistry* **2014**, 771, 2–8.
- **8-Amino-5,6,7,8-tetrahydroquinolines as ligands in iridium(III) catalysts for the reduction of aryl ketones by asymmetric transfer hydrogenation (ATH)** D. Zerla, G. Facchetti, M. Fusè, M. Pellizzoni, C. Castellano, E. Cesarotti, R. Gandolfi, I. Rimoldi, *Tetrahedron: Asymmetry* **2014**, 25, 1031–1037.
- **VCD spectroscopy as an excellent probe of chiral metal complexes containing a carbon monoxide vibrational chromophore** M. Fusè, G. Mazzeo, G. Longhi, S. Abbate, D. Zerla, I. Rimoldi, A. Contini, E. Cesarotti, *Chemical Communications* **2015**, 51, 9385–9387.
- **Simple 1,3-diamines and their application as ligands in ruthenium(ii) catalysts for asymmetric transfer hydrogenation of aryl ketones** G. Facchetti, R. Gandolfi, M. Fusè, D. Zerla, E. Cesarotti, M. Pellizzoni, I. Rimoldi, *New Journal of Chemistry* **2015**, 39, 3792–3800.
- **Luminescent chiral ionic Ir(III) complexes: Synthesis and photophysical properties** L. Ricciardi, M. La Deda, A. Ionescu, N. Godbert, I. Aiello, M. Ghedini, M. Fusè*, I. Rimoldi, E. Cesarotti, *Journal of Luminescence* **2016**, 170, 812–819.
- **Vibrational circular dichroism and chiroptical properties of chiral Ir(III) luminescent complexes** Giuseppe Mazzeo, Marco Fusè, Giovanna Longhi, Isabella Rimoldi, Edoardo Cesarotti, Alessandra Crispini, Sergio Abbate *Dalton Transactions* **2016**, 45, 992–9.
- **Evaluation of chemical diversity of biotinylated chiral 1,3 diamines as a catalytic moiety in artificial imine reductase** Michela Pellizzoni, Raffaella Gandolfi, Giorgio Facchetti, Marco Fusè, Alessandro Contini and Isabella Rimoldi *ChemCatChem* **2016**, 8, 1665-1670.
- **Luminescent water-soluble cycloplatinated complexes: structural, photophysical, electrochemical and chiroptical properties** Andreea Ionescu, Nicolas Godbert, Loredana Ricciardi, Massimo La Deda, Iolinda Aiello, Mauro Ghedini, Isabella Rimoldi, Edoardo Ce-

sarotti, Giorgio Facchetti, Giuseppe Mazzeo, Giovanna Longhi, Sergio Abbate, Marco
Fusè, *Inorganica Chimica Acta*, submitted manuscript

Pisa, November 10, 2016

A handwritten signature in black ink, reading "Marco Fusè". The signature is written in a cursive style with a prominent vertical stroke for the letter 'M' and a long horizontal stroke for the 'F'.