PERSONAL INFORMATION

Martina Landrini

[redacted]

Sex [redacted] | Date of birth [redacted]/1996 | Nationality [redacted]

ACTUAL POSITION

PhD Student in Chemical Sciences, University of Perugia.
Curriculum: Methods and materials for catalysis, energy, the environment and cultural heritage.

EDUCATION AND TRAINING

2018-2020 Master Degree in Chemical Sciences
Final mark: 110/110 cum laude
University of Perugia, Italy
Stage work: "Synthesis and characterization of heterobimetallic gold(I) hydrido complexes"
Supervisors of thesis work: Alceo Macchioni and Luca Rocchigiani
Address: Inorganic chemistry, Organometallic chemistry, Gold Chemistry

March 2020 Stage at the University of East Anglia (UK)
thanks to the victory of the announcement (DR n.1480) of the mobility program Erasmus+ Traineeship
University of East Anglia, United Kingdom
Stage work: "Synthesis and characterization of heterobimetallic gold-molybdenum bridging-hydrides"
Supervisor: Luca Rocchigiani
Address: Inorganic chemistry, Organometallic chemistry, Gold Chemistry

2015-2018 Bachelor's First level Degree in Chemistry
Final mark: 110/110
University of Perugia, Italy
Thesis work: "$[Cp^*Ir(H_2O)_3](NO_3)_2$ incorporated into a nafion membrane: exploitation as heterogenized catalyst for water oxidation"
Supervisors of thesis work: Alceo Macchioni and Mario Casciola
Address: Inorganic chemistry, Organometallic chemistry, Catalysis

2010-2015 Scientific's High school certificate
Final mark: 76/100
Liceo Scientifico Convitto Nazionale Principe di Napoli, Assisi (PG)

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Job-related skills
use of dry box
use of schlenk line
use and knowledge of NMR instrument
use and knowledge of X-Ray instrument
use and knowledge of UV-Vis instrument to follow a catalytic process

Digital skills
good command of Office Suite
good command of ChemDraw
good command and knowledge of TopSpin
good command and knowledge of Origin
good command and knowledge of programming languages as Fortran 77
good command and knowledge of Molden5.7
knowledge of solid state chemistry software Quantum Expresso

ADDITIONAL INFORMATION

May 2022 **Tutoring activity for the laboratory of Inorganic Chemistry**
Thanks to the victory of the announcement n.26/2022 of 28/02/22
University of Perugia, Department of Chemistry, Biology and Biotechnology

September 2021 **Tutoring activity during Sharper-night**
University of Perugia, Department of Chemistry, Biology and Biotechnology

April-October 2021 **Tutoring activity of General Chemistry for Biotechnology**
Thanks to the victory of the announcement n.46/2021 of 1/03/21
University of Perugia, Department of Chemistry, Biology and Biotechnology

September 2019 **Tutoring activity during Sharper-night**
University of Perugia, Department of Chemistry, Biology and Biotechnology

PUBLICATIONS

Ion pairing in cationic Au(I)(u-H)$_2$WCp$_2$ bimetallic dihydrides. Martina Landrini, Elena De Paolis, Alceo Macchioni, Leonardo Tensi, Peter Hrobárik, Luca Rocchigiani, *Eur. J. Inorg. Chem*, **2022**, e202200373.

M. Landrini,† S. Fernando,† A. Macchioni, D. L. Hughes, P. H. M. Budzelaar, and L. Rocchigiani *Dalton Trans*, **2023**, 52, 394-508.

Congress Communication

-Oral: 1) Ligand and anion effects on structure and reactivity of cartionic LAu(I)-H$_2$MCp$_2$ dihydrides (M = W, Mo). Martina Landrini, Rohan Patel, Alceo Macchioni, Leonardo Tensi, Peter Hrobárik, Luca Rocchigiani. **XLVIII Congresso Nazionale di Chimica Inorganica, 6-9 September 2022.**

2) LAu(I)-H$_2$MCp$_2$ dihydrides (M = W, Mo): Ligand and anion effects on structure and reactivity. Martina Landrini, Rohan Patel, Alceo Macchioni, Leonardo Tensi, Peter Hrobárik, Luca Rocchigiani. **Interregional Meeting of the Italian Chemical Society, Section: Toscana, Umbria, Marche and Abruzzo (TUMA 2022), 1-2 September 2022.**

3) Synthesis and Characterization of Heterobimetallic Gold(I) Bridging Hydrides. Martina Landrini, Rohan Patel, David L. Hughes, Leonardo Tensi, Alceo Macchioni, Luca Rocchigiani. **International school on Inorganic Materials, 15-18 December 2021.**

-Poster: 1) Ion pairing in Gold(I)/W(IV) Heterobimetallic Dihydrides. Martina Landrini, Elena De Paolis, Alceo Macchioni, Leonardo Tensi, Peter Hobrárik, Luca Rocchigiani. **29th International Conference on Organometallic Chemistry (ICOMC), 17-22 July 2022.**

2) Synthesis and Characterization of Heterobimetallic Au(I)/M(IV) bridging hydrides (M=Mo,W). Martina Landrini, Rohan Patel, David L. Hughes, Leonardo Tensi, Alceo Macchioni, Luca

Rocchigiani. **XXVII Congresso Nazionale della Società Chimica Italiana (Divisione Inorganica), Online Event, 14-23 September 2021.**

3) Structural Diversity in Heterobimetallic Gold(I) Bridging Hydrides: Effect of Ancillary Ligands and Hydride Donors. Martina Landrini, Rohan Patel, David L. Hughes, Leonardo Tensi, Alceo Macchioni, Luca Rocchigiani. **EUCOMC XXIV European Conference on OrganoMetallic Chemistry, Online Event, 1-3 September 2021.**