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Sex ( ) Date of bod // 1995 : Nationality

ATTUAL POSITION

**PhD's student in Chemical Sciences**, with address in *Method and materials for catalysis, energy, environment and cultural heritage* (University of Perugia)

WORK EXPERIENCE

11/2019 – 2/2020 Student's tutor / University of Perugia

Supervisors: Cristiano Zuccaccia (University of Perugia, Italy)

Subject: General and Inorganic Chemistry

Main activities: frontal lessons, exercises, teacher's support during the exams.

11/2017 -- 7/2018 S

Student's tutor / University of Perugia

Supervisors: Cristiano Zuccaccia (University of Perugia, Italy)

Subject: General and Inorganic Chemistry

Main activities: frontal lessons, exercises, teacher's support during the exams.

**EDUCATION AND TRAINING** 

1/11/19 – Present Doctoral Degree in Chemical Science XXXV cicle (University of

Perugia)

Title: Iridium-based molecular and material catalysts for processes related to the

production of renewable energy

Curriculum: Method and material for catalysis, energy, environment and cultural

heritage.

Tutor: Alceo Macchioni (University of Perugia, Italy) Co-tutor: Cristiano Zuccaccia (University of Perugia, Italy)

10/2017 -- 09/2019

Second Level Degree in Chemical Sciences

Final Mark: 110/110 cum laude

Supervisors: Alceo Macchioni (University of Perugia, Italy), Christian Müller (Freie

Universität Berlin, Germany)

Address: Organometallic Chemistry; Phosphinines ligands; Coordination

Chemistry; Catalysis.

Thesis Title: "Iridium and rhodium complexes bearing pyridine – and phenyl –

phosphinine ligands".

3/2019 - 8/2019 Erasmus+ Traineeship

Berlin, Germany

Hosting Institution: Freie Universität Berlin

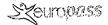
Supervisor: Christian Müller

Address: Organometallic Chemistry; Phosphinines ligands; Coordination

Chemistry; Catalysis.

EQF level 8

**FOE level 7** 



10/2014 - 09/2017

Frist Level Degree in Chemistry

Final Mark: 110/110 cum laude

Supervisors: Alceo Macchioni, Cristiano Zuccaccia (University of Perugia, Italy)

Address: Inorganic Chemistry, Catalysis, Organometallic Chemistry

Thesis Title: "Hydrogen generation from formic acid catalyzed by an iridium pyridine-amidate

organometallic complex".

9/2009 - 7/2014

Scientific high school

Final Mark: 100/100

"Renato Donatelli" Scientific high school, Terni, Italy.

EQF revolut

J. M. Company

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2*	B2*	B2*	B2*	B2*
*Certificated by CLA	(University Langua	ges Center – Univers	ity of Perugia)	

English

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

Common European Framework of Reference for Languages

Communication skills

Excellent team spirit; ability to interact with colleagues also in English; ability to adapt in cultural contexts very different from mine (Germany).

Job-related skills

- Synthesis of organic and organometallic compounds
- Characterization of organic and organometallic compounds by means of NMR's spectroscopy
- Expert in the use of differential manometry
- · Good knowledge in the use of gas chromatography
- Basic knowledge in the of autoclave system
- Good knowledge of the Schlenk Line technique
- Good knowledge in the use of the glovebox

Digital skills

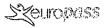
- Good command of SO based on Windows
- . Expert in the use of Origin
- Good knowledge of Microsoft Office
- Good command in the use of MestReNova
- Good command in the use of Top Spin
- · Good knowledge in the use of Chemdraw

Other skills

Competitive swimmer for 8 years; I love hang out with friends; I am passionate about books, music and art; I love traveling, also alone, and meeting people and cultures different from mine.

Driving licence

В



## ADDITIONAL INFORMATION

## Publications

- C. Domestici, L. Tensi, E. Boccalon, F. Zaccana, F. Costantino, C. Zuccaccia, A. Macchioni. "Molecular and Heterogenized Cp\*Ir Water Oxidation Catalysts Bearing Glyphosate and Glyphosine as Ancillary and Anchoring Ligands". Eur. J. Inorg. Chem., 2021, 2021, 229.
- C. Domestici, T. Tensi, F. Zaccaria, N. Kissimina, M. Valentini, R. D'Amato, F. Costantino, C. Zuccaccia, A. Macchioni. "Molecular and Heterogenized Dinuclear Ir-Cp\* Water Oxidation Catalysts Bearing EDTA and EDTMP as Bridging and Anchoring Ligands". Sci. Bull., 2020, 65, 1614-1625.
- G. Menendez Rodriguez, C. Domestici, A. Bucci, M. Valentini, C. Zuccaccia, A. Macchioni. "Hydrogen Liberation from Formic Acid Mediated by Efficient Iridium (III) Catalysts Bearing Pyridine-carboxamide Ligands". Eur. J. Inorg. Chem., 2018, (2018) 20-21, 2247-2250.

## Contributions to Congresses

- "Molecular and Heterogenized Dinuclear Ir-Cp\* Water Oxidation Catalysts Bearing EDTA or EDTMP as Bridging and Anchoring Ligands", C. Domestici, T. Tensi, F. Zaccaria, N. Kissimina, M. Valentini, R. D'Amato, F. Costantino, C. Zuccaccia, A. Macchioni. International School of Chemistry "Chemistry for Every Day Life", Camerino, Italy, September 1st, 2020.
- "Strategies for the Development of Efficient Ir-based Water Oxidation Catalysts" F. Zaccaria, I. Fagiolari, L. Tensi, C. Domestici, R. Viviani, F. Costantino C. Zuccaccia, A. Macchioni, 2nd Congress of the Interdivision Group on Chemistry for Renewable Energy of the Italian Chemical Society, Padua, Italy, February 12-14<sup>th</sup>, 2020.
- "Half-sandwich Ir(III) Complexes Bearing Pyridine-carboxamide Ligands as Efficient Catalysts for Formic Acid Dehydrogenation". G. Menendez Rodriguez, C. Domestici, F. Zaccaria, P. Belanzoni, A. Macchioni, 2<sup>nd</sup> Congress of the Interdivision Group on Chemistry for Renewable Energy of the Italian Chemical Society, Padua, Italy, February 12-14<sup>th</sup>, 2020.
- "Iridium Pyridine Carboxylate and Amidate Complexes as Efficient Catalysts for Energy Apllications".
  G. Menendez Rodriguez, C. Domestici, S. van Dijk, G. Gatto, L. Tensi, G. Bellachioma, P. Belanzoni, C. Zuccaccia, A. Macchioni, 23<sup>rd</sup> Conference on Organometallic Chemistry, Helsinki, Finland, June 16-20<sup>th</sup>, 2019.
- "Hydrogen Evolution from Formic Acid Mediated by Iridium Catalyst Bearing Pyrinidine-Carboxiamide Ligands". G. Menendez Rodriguez, C. Domestici, A. Bucci, M. Valentini, C. Zuccaccia, A. Macchioni, 43<sup>rd</sup> International Conference on Coordination Chemistry, Sendai, Japan, July 30-August 4<sup>th</sup>, 2018.
- "Hydrogen Evolution from Formic Acid Mediated by Iridium Catalysts Bearing Pyridine-Carboxiamide Ligands. G. Menendez Rodriguez, C. Domestici, A. Bucci, M. Valentini, C. Zuccaccia, P. Belanzoni, A. Macchioni, XLVI Congresso Nazionale di Chimica Inorganica, Bologna, Italy, September 10-13<sup>rd</sup>, 2018
- "An Efficient Iridium Catalyst for Hydrogen Generation from Formic Acid". G. Menendez Rodriguez, C. Domestici, C. Zuccaccia, A. Macchioni, 24<sup>th</sup> Internation School of Organometallic Chemistry, Camerino, Italy, September 2-6<sup>th</sup>, 2017.

Certifications

EChemTest (ECTNA) in Inorganic Chemistry, Level 3, evaluation optimum.