

Curriculum Vitae

PERSONAL INFORMATION

Leonardo Tensi



Sex: | Date of birth: 1994 | Nationality:

WORK EXPERIENCES

Dec 2016–Feb 2017

Tutor of General and Inorganic Chemistry

Supervisor: Prof. Nadia Balucani

Dipartimento di Chimica, Biologia e Biotechnologie, Università degli studi di Perugia, Perugia (Italy)

Oct 2017–Jun 2018

Tutor of General and Inorganic Chemistry

Supervisor: Prof. Ferdinando Costantino

Dipartimento di Scienze Agrarie, Università degli studi di Perugia, Perugia (Italy)

EDUCATION AND TRAINING

Oct 2013–Jul 2016

Bachelor degree in Chemistry

Università degli studi di Perugia, Perugia (Italy)

Final mark: 110/110 cum laude.

Supervisor: Prof. Cristiano Zuccaccia*

*Dipartimento di Chimica, Biologia e Biotechnologie, Università degli studi di Perugia, Via Elce di Sotto 8, 06123, Perugia, Italy.

Principal subjects: Study of the "multi-site" behavior of hafnocene for the olefin polymerization.

Thesis title: Effect of the Cyclometallation on the performance of hafnium catalyst for olefin polymerization.

22 Jun 2016

EchemTest Inorganic Chemistry level 3

European Chemistry Thematic Network

Oct 2016–Jul 2018

Master Degree in Chemical Sciences

Università degli Studi di Perugia, Perugia (Italy)

Curriculum: Physical Chemistry.

Final mark: 110/110.

Supervisors: Prof. Cristiano Zuccaccia* and Prof. Alceo Macchioni*.

*Dipartimento di Chimica, Biologia e Biotechnologie, Università degli studi di Perugia, Via Elce di Sotto 8, 06123, Perugia, Italy.

Principal subjects: Study of the reactivity of an hafnocene with typical cocatalysts used in the reaction of olefin polymerization.

Thesis title: Synthesis and characterization of heterobimetallic intermediates $\text{Cp}^{(Pr)}\text{Hf(IV)}/\text{ER}_n$ (E= Zn o Al, n= 2 o 3).

Nov 2018–Present

Doctoral Degree in Chemical Sciences (XXXIV cycle)

Università degli Studi di Perugia, Perugia (Italy)

Curriculum: Methods and Materials for Catalysis, Energy, Environment and Cultural Heritage.

Supervisors: Prof. Alceo Macchioni* and Prof. Cristiano Zuccaccia*.

*Dipartimento di Chimica, Biologia e Biotecnologie, Università degli studi di Perugia, Via Elce di Sotto 8, 06123, Perugia, Italy.

Subjects: Study of the reactivity of organometallic complexes.

PUBLICATIONS

- (8) Domestici, C.; Tensi, L.; Boccalon, E.; Zaccaria, F.; Costantino, F.; Zuccaccia, C.; Macchioni, A. "Molecular and heterogenized Cp*Ir Water Oxidation Catalysts Bearing Glyphosate and Glyphosine as Ancillary and Anchoring Ligands" *Eur. JIC* **2021**, 299-307.
- (7) Menendez Rodríguez, G.; Zaccaria, F.; Tensi, L.; Zuccaccia, C.; Belanzoni, P.; Macchioni, A. "Understanding the Deactivation Pathways of Iridium (III) Pyridine - Carboxamide Catalysts for Formic Acid Dehydrogenation" *Chemistry – A European Journal* **2021**, 27, 2050-2064.
- (6) Massari, S.; Bertagnin, C.; Pismataro, M. C.; Donnadio, A.; Nannetti, G.; Felicetti, T.; Di Bona, S.; Nizi, M. G.; Tensi, L.; Manfroni, G.; Loza, M. I.; Sabatini, S.; Cecchetti, V.; Brea, J.; Goracci, L.; Loregian, A.; Tabarrini, O. "Synthesis and Characterization of 1, 2, 4-Triazolo [1, 5-a] Pyrimidine-2-Carboxamide-Based Compounds Targeting the PA-PB1 Interface of Influenza A Virus Polymerase" *Eur. J. Med. Chem.* **2021**, 209, 112944.
- (5) Tensi, L.; Macchioni, A. "Extremely Fast NADH-Regeneration Using Phosphonic Acid as Hydride Source and Iridium-pyridine-2-sulfonamide Catalysts" *ACS Catal.* **2020**, 10, 7945–7949.
- (4) Domestici, C.; Tensi, L.; Zaccaria, F.; Kissimina, N.; Valentini, M.; D'Amato, R.; Costantino, F.; Zuccaccia, C.; Macchioni, A. "Molecular and Heterogenized Dinuclear Ir-Cp* Water Oxidation Catalysts Bearing EDTA or EDTMP as Bridging and Anchoring Ligands" *Sci. Bull.* **2020**, 65, 1614-1625.
- (3) Tensi, L.; Froese, R. D. J.; Kuhlman, R. L.; Macchioni, A.; Zuccaccia, C. "Interception of elusive cationic Hf-Al and Hf-Zn heterobimetallic adducts with Mixed Alkyl Bridge Featuring Multiple Agostic Interactions" *Chemistry – A European Journal* **2020**, 26, 3758 –3766.
- (2) Falvello, L.; Lotti, P.; Massera, C.; Tarantino, S. C.; Zema, M.; Puschmann, H.; Agbahoungbata, M. Y.; Andreo, J.; Sahadevan, S. A.; Bismuto, A.; Bonfant, G.; Bonou, S. A. S.; Carraro, C.; Zotti, M. D.; di Biase, A.; Fantini, R.; Ferraboschi, I.; Custodio, J. M. F.; Frigerio, M.; Gallo, G.; Gijli, S.; Goudjil, M.; Igoa, F.; Kahveci, E.; Kalienko, M.; Lorenzon, S.; Macera, L.; Fajardo, J. J. M.; Nushi, E.; Ouaatta, S.; Parisi, E.; Pasqualetto, L.; Pesko, E.; Pierri, G.; Pinalli, R.; Poppe, R.; Santoro, A.; Smirnova, E.; Sorbara, S.; Tensi, L.; Tusha, G. "Poly[(μ⁴-phenylphosphonato)zinc(II)]" *IUCrData*, **2019**, 4, x191222.
- (1) Zuccaccia, C.; Tensi, L.; Kuhlman, R. L.; Gies, A. P. Jr.; Macchioni A. "C-H Activation and Olefin Insertion as Sources of Multiple Sites in Olefin Polymerization Catalyzed by CpAlkylHf(IV) Complexes" *ACS Catalysis*, **2017**, 7, 563 – 567.

ORAL PRESENTATION TO CONGRESS

- (1) "In situ modifications of Molecular Olefin Polymerization Catalysts as sources of multi-site behavior", XI PhD Day, Parma, Italy, 21 March 2019.

POSTER PRESENTATION TO CONGRESS

- (1) "On the Origin of the multi-site behaviour of CpAlkylHf(IV)-catalysts for olefin polymerization", XLVII Congresso Nazionale di Chimica Inorganica, Bari, Italy, 9-12 September 2019.

CONTRIBUTIONS TO CONGRESSES

- (5) "Strategies for the development of efficient Ir-based water oxidation

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catalysts" Francesco Zaccaria, Lucia Fagiolari, Leonardo Tensi, Chiara Domestici, Riccardo Vivani, Ferdinando Costantino, Cristiano Zuccaccia and Alceo Macchioni 2nd Congress of the Interdivisional Group on Chemistry for Renewable Energy of the Italian Chemical Society – ENERCHEM, Padova, 12-14 February 2020.

- (4) "Ionic aggregation, in-situ modification and interaction with chain transfer agents of molecular catalysts for olefin polymerization" Cristiano Zuccaccia, Roger L. Kuhlman, Alceo Macchioni, Leonardo Sian, Leonardo Tensi 5th Blue Sky Conference, Napoli e Sorrento, Italy, 24-28 June 2019.
- (3) "Iridium Pyridine Carboxylate and Amidate Complexes as Efficient Catalysts for Energy Applications" Gabriel Menendez Rodriguez, Chiara Domestici, Sybren van Dijk, Giordano Gatto, Leonardo Tensi, Gianfranco Bellachioma, Paola Belanzoni, Cristiano Zuccaccia, and Alceo Macchioni 23rd Conference on Organometallic Chemistry, Helsinki, Finland, 16 - 20 June 2019.
- (2) "Complex Polyethylene compositions from molecular catalysts" Roger L. Kuhlman, Cristiano Zuccaccia, Alceo Macchioni, Leonardo Tensi, Anthony P. Gies XXVIII International Conference on Organometallic Chemistry, Firenze, Italy, 15-20 Luglio 2018.
- (1) "C-H activation and olefin insertion of CpAlkylHf(IV)-complexes observed by NMR and mass spec during olefin polymerization" Roger L. Kuhlman, Anthony Gies, Leonardo Tensi, Cristiano Zuccaccia, Alceo Macchioni 253rd ACS National Meeting & Exposition, San Francisco, CA, United States, 2-6 April 2017.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

English

UNDERSTANDING

Listening

Reading

B2

B2

SPEAKING

Spoken interaction

Spoken production

B2

B2

WRITING

B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital competence

SELF-ASSESSMENT

Information
processing

Communication

Content
creation

Safety

Problem
solving

Independent user

Independent user

Independent user

Independent user

Independent user

Digital competences - Self-assessment grid

Capable to program simple programs in Fortran