

CURRICULUM VITAE

JORGE LADO-SANJURJO

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Date of birth: 12/06/1991

I have been working five years as a researcher (Organometallic Chemist) as a part of a team, but always with the same objective, to search the quality and the good performance to achieve the best results. I'm highly interested in open my horizons with outstanding projects in which I can develop new techniques and solve complexes problems in our current society.

WORK EXPERIENCE

- ❖ **Organometallic Chemistry PhD Researcher position, University of A Coruña.**
Objective: Synthesis and reactivity with phosphines and carbenes of Pd, Pt and Ru cyclometalated and complex compounds. Functionalization post-coordination of diphosphines ruthenium and platinum complexes.
- ❖ **Bioinorganic Chemistry, Visiting PhD student at University of Lisbon. Portugal. April 2017-July 2017.** Objective: UV-Vis and Fluorescence titration of ruthenium (II) diphosphines complexes with biological molecules (DNA, HSA...).
- ❖ **Catalysis Chemistry, Visiting PhD student at Imperial College London. September 2015 – December 2015.** Objective: Synthesis of Cu(I) Diazimine complexes and its application as azide reduction catalyst.

ACADEMIC TITLES

- **PhD in University of A Coruña (Pending of qualification)**
Title: *Design and properties of heteroleptic compounds derived from ruthenium- η^6 p-cymene compounds.* University of A Coruña. Galicia. Spain. (October 2014- Present)
- **MsC in Advanced Chemistry by University of Santiago de Compostela, Chemical Science and Technology programme.** University of Santiago de Compostela, Galicia. Spain. October 2013 – July 2014.
- **Bachelor in in Chemistry.** University of A Coruña. Galicia. Spain. September 2009-July 2013 (Honors in Inorganic Chemistry)

RESEARCH GRANTS

- Project research former research contract. Title: “Axudas para a consolidación e estruturación de unidades de investigación competitivas do Sistema Universitario de Galicia. Modalidade de Grupos de Referencia Competitiva” (Project Code: GRC2014/042), Universidade da Coruña. Galicia. Spain. May 2015-November 2017.
- UDC-Inditex Visiting Intership Grants, achieved in 2017 call (University of Lisbon, Portugal) and 2015 call (Imperial College London, UK).
- Intern Collaboration Grant. University of A Coruña, Galicia, Spain. January 2012-July 2012.

SCIENTIFICS ACHIEVEMENT

Publications

- ✚ Ismael Marcos, Vicente Ojea, Digna Vázquez-García, Jesús J. Fernández, Alberto Fernández, Margarita López-Torres, **Jorge Lado**, José M. Vila, Preparation and characterization of terdentate [C,N,N] acetophenone and acetylpyridine hydrazone platinacycles: a DFT insight into the reaction mechanism, *Dalton Trans.*, 2017, **46**, 16845-16860. DOI: 10.1039/C7DT03418K.

Symposiums Attendance

- ✚ **Jorge Lado**, Raquel Pumares, Digna Vázquez-García, Alberto Fernández, Margarita López-Torres, Fernanda Marques, Ana Isabel Tomaz, Helena García, Jesús J. Fernández; *Increasing the cytotoxicity of Ru(II) complexes derived from p-cymene via functionalization of coordinated diphosphines*; XXVIII International Conference on Organometallic Chemistry (ICOMC), Florence, Italy. **July 2018**.
- ✚ **Jorge Lado Sanjurjo**, Digna Vazquez García, Margarita López Torres, Jose Manuel Vila, Alberto Fernández López, Jesús José Fernández Sánchez.; *A simple method to functionalise ruthenium(II) compounds with diphosphines as potential agents in cancer therapy*; III Simposio Iberoamericano de Química Orgánica (SIBEAQO). Oporto, Portugal. **September 2016**.
- ✚ Jorge Lado, Xaquín Rodiles, Digna Vazquez García, Alberto Fernández López, Jesús José Fernández Sánchez. *Design of Ruthenium(II) compounds with promising biological properties I “Julio Palacios” International Symposium*. I Julio Palacios International Symposium. A Coruña, Spain. **July 2016**
- ✚ Jorge Lado, Samuel Castro-Juiz, Margarita López-Torres, Jose Manuel Vila, Jesús José Fernández; *“An unusual coordination mode in a bimetallic palladium (II) complex”* (abstract

written in Spanish). XXXV Biennial Meeting of Spanish Royal Society of Chemistry. A Coruña, Spain. **July 2015**.

- ✚ Oscar Armando Lenis, Jesús Rodríguez Fernández, Jorge Lado, Digna Vázquez-García, Alberto Fernández; “*Design of new ruthenium metalocycles derived from bidentates with group 15 donor ligands with potential biological application*” (*abstract written in Spanish*). XXXV Biennial Meeting of Spanish Royal Society of Chemistry. A Coruña, Spain. **July 2015**.
- ✚ Patricia Gaudino, Ismael Marcos, Jorge Lado, Digna Vázquez García, Jose Manuel Vila, Jesús José Fernández; “*Synthesis of new cyclometalated platinum (II) complexes with hydrazone ligands*” (*abstract written in Spanish*). XXXV Biennial Meeting of Spanish Royal Society of Chemistry. A Coruña, Spain. **July 2015**.

OTHER ACADEMIC COURSES

- Oratory tools. **March 2017**.
- Gradschool, development of transversal skills. . **October 2016**.
- Fluorescence techniques. **June 2016**.
- X-Ray monocrystal diffraction in structural determination of crystalline solids. **February 2016**.
- Transference and Difussion of Results. **February 2015**

ESPECIFIC CHEMISTRY COMPETENCES

✓ Organic and organometallic Chemistry

Inert atmosphere. Manual solvent drying. Proficiency in synthesis of Inert metals complexes. Good skills in Transition metals (Cu, Pd, Pt, Ru).

✓ Quantitative Spectroscopy

Proficiency in UV-Vis (Titration of metallic salts, determination of stochiometry in complexes), fluorescence spectroscopy (Titrations, Asociation constants with biological systems, Lifetime measurements), pH-meter (including conductivity and potientometry measurements).

✓ Qualitative Spectroscopy

Proficiency in the use of NMR 300 MHz Spectrometer and FT-IR ATR Spectrometer, and characterization of organic and organometallic compounds. Mass spectrometry. X-Ray monocrystal structural elucidation.

LANGUAGES

- **Spanish:** Native
- **Galician:** Native
- **English:** Professional skills.

COMPUTER SKILLS

- **Molecular editor:** ChemDraw.
- **Spectrum processing:** MestreNova, DAS Spectra, OMNIC
- **Resolution and processing of crystal structures:** WinGX, Mercury, Ortep, POV-Ray.
- **Database:** Scifinder, Scopus.
- **MS Office:** Word, Excel, Access, Power Point.
- **Others:** Origin, SigmaPlot

OTHER SKILLS

- ✓ Experience supervising undergraduate projects
- ✓ Excellent verbal and written English and Spanish Skills
- ✓ Leadership and Teamwork collaborative
- ✓ Ability to work under rapid deadlines.