



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6226

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze Farmaceutiche**

Scientist- in - charge: **Prof.ssa Rimoldi** _____

Lorenzo Arnal Vallés

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Arnal Vallés
Name	Lorenzo

PRESENT OCCUPATION

Appointment	Structure
Research Grant	Istituto di Ricerche Farmacologiche Mario Negri Milano

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Chesmitry	University of Zaragoza	2016
Specialization			
PhD	Inorganic Chemsistry	University of Zaragoza	2023
Master	Master in Molecular Chemistry and Homogeneous Catalysis	University of Zaragoza	2017
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	of Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
Spanish	Native speaker
English	First Certificate in English B2
French	Diplome d'études en Langue Française DELF B1
German	Goethe-Zertifikat B1

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2022-	Research Grant in the Istituto di Ricerche Farmacologiche Mario Negri Milano, Supervisor: Prof. Luisa De Cola.
01/01/2020 to 30/06/2023	Fellowship for the PhD of the call "Subvenciones para la contratación de personal investigador predoctoral en formación" from the Gobierno de Aragón, Spain

TRAINING OR RESEARCH ACTIVITY

description of activity

PROJECT ACTIVITY

Year	Project
2023-2025	Title: "Química Inorgánica y de los Compuestos Organometálicos (Grupo de Referencia E17_23R)" Funding Entity: Gobierno de Aragón, Spain Principal Investigator: Prof. Dr. Violeta Sicilia Martínez & Dr. Sara Fuertes Lorda
2022-2025	Title: PID2021-122869NB-I00 Funding Entity: ISQCH (UZ-CSIC), Spain



	Principal Investigator: Dr. Antonio Martín Tello & Dr. Miguel Baya
2019-2022	Title: PGC2018-094749-B-I00 Funding Entity: ISQCH (UZ-CSIC), Spain Principal Investigator: Dr. Antonio Martín Tello & Dr. Violeta Sicilia Martínez
01/01/2019 to 01/01/2020	Title: Affinity Coatings Funding Entity: B/S/H – Universidad de Zaragoza, Spain Principal Investigator: Dr. Miguel Baya (UZ)
2020-2022	Title: “Química Inorgánica y de los Compuestos Organometálicos (Grupo de Referencia E17_20R)” Funding Entity: Gobierno de Aragón, Spain Principal Investigator: Dr. José M. Casas (UZ)

PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place
25-29 June, 2023	Light-driven reactions in dinuclear platinum (III) compounds (Oral Flash Communication +Poster), Lorenzo Arnal, Sara Fuertes, Antonio Martín, Violeta Sicilia, XXXIX Reunión Bienal de la Sociedad Española de Química	Zaragoza
25-29 June, 2023	Synthesis, NMR and luminescence of [Pt ₂ Ag] clusters from butterfly Pt(II) complexes (Oral Flash Communication +Poster), Jorge Roy, Lorenzo Arnal, Antonio Martín, Violeta Sicilia, XXXIX Reunión Bienal de la Sociedad Española de Química	Zaragoza
13-15 October 2022	195Pt NMR in high-valent pyrazolate-bridged Pt ₂ complexes: a picture of the chemical structure (Oral Flash Communication +Poster), Lorenzo Arnal, Sara Fuertes, Antonio Martín, Violeta Sicilia, 11th Bienal Meeting of the GERMN	Almería
13-15 October 2022	Luminescent Pt(II)-Ag(I) Clusters: Synthesis and Multinuclear NMR Spectra for Characterization (Poster), Jorge Roy, Lorenzo Arnal, Antonio Martín, Violeta Sicilia, 11th Bienal Meeting of the GERMN	Almería
7-8 October 2022,	195Pt NMR: a useful tool for monitoring the oxidative addition of CH ₃ I to [Pt ₂] species. (Oral Communication), Lorenzo Arnal, Sara Fuertes, Daniel Escudero, Antonio Martín, Violeta Sicilia, 1st Symposium GERMN-junior,	Online



1-3 September 2021	Experimental and theoretical studies on the oxidation of a "platinum-butterfly" complex by halocarbons (Poster), Lorenzo Arnal, Sara Fuertes, Antonio Martín, Miguel Baya, Violeta Sicilia, XXIV Conference on Organometallic Chemistry (EuCOMC)	Online
26-30 May 2019	Activation of C-X bonds in halocarbons by a Pt ₂ (II,II) butterfly-like platinum compound. The role of oxygen in the oxidative addition process (Oral Flash Communication), Lorenzo Arnal, Sara Fuertes, Antonio Martín, Miguel Baya, Violeta Sicilia, XXXVII Reunión Bienal de la RSEQ	San Sebastián
22 November 2018	NHCs ciclometalados: alas de mariposa de nuevos compuestos fosforescentes de Pt (II) altamente eficientes (Oral Flash Communication), Lorenzo Arnal, Sara Fuertes, Antonio Martín, Violeta Sicilia, 8ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón	Zaragoza
5-7 September 2018,	Pyrazolate bridge Pt ₂ (II,II) and Pt ₂ (III,III) compounds with cyclometalated N- Heterocyclic Carbenes (Poster), Lorenzo Arnal, Sara Fuertes, Antonio Martín, Violeta Sicilia, XXXVI GEQO Congress	Zaragoza
7-10 September 2016	White light: from molecules to devices. (Poster), Andrés Chueca, Sara Fuertes, Lorenzo Arnal, Violeta Sicilia, Mariano Perálvarez, Marc Torrell, Josep Carreras, Vth Spanish-Portuguese Conference on Photochemistry	Toledo

PUBLICATIONS

Articles in reviews
Arnal, L.; Escudero, D.; Fuertes, S.; Martín, A.; Sicilia, V., High-Valent Pyrazolate-Bridged Platinum Complexes: A Joint Experimental and Theoretical Study. <i>Inorganic Chemistry</i> 2022 , <i>61</i> (32), 12559-12569. IF= 4.6
Sicilia, V.; Arnal, L.; Escudero, D.; Fuertes, S.; Martín, A., Chameleonic Photo- and Mechanoluminescence in Pyrazolate-Bridged NHC Cyclometalated Platinum Complexes. <i>Inorganic Chemistry</i> 2021 , <i>60</i> (16), 12274-12284. IF= 5.436
Jaime, S.; Arnal, L.; Sicilia, V.; Fuertes, S., Cyclometalated NHCs Pt(II) Compounds with Chelating P [^] P and S [^] S Ligands: From Blue to White Luminescence. <i>Organometallics</i> 2020 , <i>39</i> (20), 3695-3704. IF= 3.876
Sicilia, V.; Arnal, L.; Fuertes, S.; Martín, A.; Baya, M., Metal-Metal Cooperation in the Oxidation of a Flapping Platinum Butterfly by Haloforms: Experimental and Theoretical Evidence. <i>Inorganic Chemistry</i> 2020 , <i>59</i> (17), 12586-12594. IF= 5.165
Sicilia, V.; Arnal, L.; Chueca, A. J.; Fuertes, S.; Babaei, A.; Igual Munoz, A. M.; Sessolo, M.; Bolink, H. J., Highly Photoluminescent Blue Ionic Platinum-Based Emitters. <i>Inorganic Chemistry</i> 2020 , <i>59</i> (2), 1145-1152. IF= 5.165
Sicilia, V.; Fuertes, S.; Chueca, A. J.; Arnal, L.; Martín, A.; Perálvarez, M.; Botta, C.; Giovanella, U., Highly efficient platinum-based emitters for warm white light emitting diodes. <i>Journal of Materials Chemistry C</i> 2019 , <i>7</i> (15), 4509-4516. IF= 7.059
Arnal, L.; Fuertes, S.; Martín, A.; Sicilia, V., The Use of Cyclometalated NHCs and Pyrazoles for the Development of Fully Efficient Blue PtII Emitters and Pt/Ag Clusters. <i>Chemistry - A European Journal</i> 2018 , <i>24</i> (37), 9377-9384. IF= 5.160
Arnal, L.; Fuertes, S.; Martín, A.; Baya, M.; Sicilia, V., A Cyclometalated N- Heterocyclic Carbene: The Wings of the First Pt ₂ (II,II) Butterfly Oxidized by CHI ₃ . <i>Chemistry - A European Journal</i> 2018 , <i>24</i> (70), 18743-18748. IF= 5.160
Fuertes, S.; Chueca, A. J.; Arnal, L.; Martín, A.; Giovanella, U.; Botta, C.; Sicilia, V., Heteroleptic Cycloplatinated N-Heterocyclic Carbene Complexes: A New Approach to Highly Efficient Blue-Light Emitters. <i>Inorganic Chemistry</i> 2017 , <i>56</i> , 4829-4839. IF= 4.700

Congress proceedings



[title, structure, place, year]
[title, structure, place, year]
[title, structure, place, year]

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Milano, 22/01/2024