



Part A. PERSONAL INFORMATION

CV date 30/09/2021

First and Family name	Laura Rodríguez Raurell		
Social Security, Passport, ID number		Age	
Researcher codes	WoS Researcher ID (*)	A-4169-2011	
	SCOPUS Author ID(*)	881438	
	Open Researcher and Contributor ID (ORCID) **	0000-0003-1289-1587	

(*) At least one of these is mandatory

(**) Mandatory

A.1. Current position

Name of University/Institution	Universitat de Barcelona		
Department	Inorganic and Organic Chemistry		
Address and Country	Martí i Franquès, 1-11, 08028 Barcelona		
Phone number	934039140	E-mail	laura.rodriquez@qi.ub.es
Current position	Profesor Catedrático de Universidad	From	24-02-2020
Key words	Supramolecular chemistry, organometallic chemistry, photochemistry, inorganic chemistry		

A.2. Education

Degree/PhD	University	Year
Ph in Chemistry	Universitat de Barcelona	2003
Degree in Chemistry	Universitat de Barcelona	1999

A.3. JCR articles, h Index, thesis supervised...

- Total number of publications: 90
- Total number of citations: 1731.
- Total number of PhD theses supervised: 6 (5 currently in progress).
- Total number of post-docs supervised: 4 (1 IF Marie Curie fellow).
- 3 positive six-year research evaluation periods (sexenios), last granted in 2018, and 3 positive five-year teaching evaluation (quinquenios), last granted in 2019.
- h index = 25

Part B. CV SUMMARY (max. 3500 characters, including spaces)

I started my research career with my PhD in Chemistry (defended in 2003), under the supervision of Prof. Oriol Rossell and Dr. Montserrat Ferrer at the University of Barcelona. The topic of my PhD was Metallic Clusters and Supramolecular Chemistry (introducing Supramolecular Chemistry research line in the Department). During this period, I performed a scientific research stage at the Universidade Nova de Lisboa to gain some knowledge on luminescence and photophysical characterization. I carried out my postdoc at the same University during ca. 30 months to gain deeper knowledge on this field in 2006 and I came back at the University of Barcelona in 2008 as Lecturer Professor. Then, in 2012 I won an interim position as Associate Professor and I got my position as *Profesor Titular de Universidad* in 2013 and as Full Professor in 2020.

When I came back in Barcelona I started a new research line based on Supramolecular organometallic luminescent systems with applications in different fields: gels formation, luminescent materials, molecular recognition, materials chemistry, biological activity and photocatalysis. From 2015 I am the head of the research group "Supra- and Nanostructured systems" (<http://www.ub.edu/inorgani/recerca/suns/index.html>) at the Inorganic Section – Faculty of Chemistry (UB) and I have been PI in the "Plan Nacional" Spanish Projects in two subsequent calls (years 2016 and 2019).

I around 90 publications included in the SCI and 43 of them have been published in the last 5 years.

I have collaborations with several groups at national and international level, all of them with common interests on Supramolecular Chemistry, organometallic chemistry and/or



luminescence. Some of them were established due to my involvement in different COST Actions D31, CM1005, CM1105 and CM1402. At this moment, I am the coordinator of another COST Action that is currently under preparation as well form a Doctoral Network Marie Curie Project. I am currently in other ongoing projects: an international network with France (Hetero-elements and coordination chemistry: from concept to applications-HC3A”), a recently founded National Network “*Materiales Supramoleculares Funcionales* -RED2018-102331-T” and an agreement with the Samsung Company.

I am committed to diffusion of research and one of the best ways is presenting the results as oral or invited communications and I did it in national and international Conferences (ca. 35) and at different research centres and Universities (ca. 10). I have been taking part as organizer or as Chair of several national or international conferences: 3rd SUPRAPHONE Meeting-2006, MOLMAT 2012, 1st International Symposium on Functional Metals that bind to biomolecules-2013, Symposium S1- bienal RSEQ - 2015 and II workshop on 11 group elements - 2017. I am also the Chair of the two Conferences in 2022 (GEQO-2022 and HC3A Spanish-France network).

A part from research, as a professor, I am also committed to teaching and management that are the three pillars of a University professor. I teach at different levels, at different degrees and in different languages.

I am also involved in management since I was secretary of the Inorganic Department from 2011-2016 and in vice-dean in charge of Professors’ contracts and Security from 2017-2020.

Part C. RELEVANT MERITS

C.1. Publications

Selected the 10 main publications related to the field of the project.

- 1.- A. de Aquino, F.J. Caparrós, G. Aullón, J.S. Ward, K. Rissanen, Y. Jung, H. Choi, J.C. Lima, L. Rodríguez. “Effect of Gold(I) on the Room-Temperature Phosphorescence of Ethynylphenanthrene”. *Chemistry. A European Journal* **2021**, 27, 1810-1820. **IF = 4.857. Q1.**
- 2.- A. Lázaro, C. Balcels, J. Quirante, J. Badia, L. Baldomá, J.S. Ward, K. Rissanen, M. Font-Bardia, L. Rodríguez, M. Crespo, M. Cascante, “Luminescent PtII and PtIV Platinacycles with Anticancer Activity Against Multiplatinum-Resistant Metastatic CRC and CRPC Cell Models”. *Chemistry. A European Journal* **2020**, 26, 1947 – 1952. **IF = 5.16. Q1.**
- 3.- M. Pujadas, L. Rodríguez. “Luminescent phosphine gold(I) alkynyl complexes. Highlights from 2010 to 2018”. *Coordination Chemistry Reviews* **2020**, 408, 213179. **IF = 15.367. Q1.**
- 4.- Q. Sun, G. Aragay, A. Pinto, E. Aguiló, L. Rodríguez, Pablo Ballester.” Influence of the Attachment of a Gold(I) Phosphine Moiety at the Upper Rim of a Calix[4]pyrrole on the Binding of Tetraalkylammonium Chloride Salts”. *Chemistry. A European Journal* **2020**, 26, 3348 – 3357. **IF = 4.857. Q1.**
- 5.- N. Svahn, A.J. Moro, C. Roma-Rodrigues, R. Puttreddy, K. Rissanen, P.V. Baptista, A.R. Fernandes, J.C. Lima, L. Rodríguez. “The Important Role of the Nuclearity, Rigidity, and Solubility of Phosphane Ligands in the Biological Activity of Gold(I) Complexes”. *Chemistry. A European Journal* **2018**, 24, 14654-14667. **IF = 5.16. Q1. Hot Paper. Front Cover.**
- 6.- E. Aguiló, A.J. Moro, R. Gavara, I. Alfonso, Y. Pérez, F. Zaccaria, C. Fonseca Guerra, M. Malfois, C. Baccells, M. Ferrer, J.C. Lima, L. Rodríguez. “Reversible Self-Assembly of Water-Soluble Gold(I) Complexes”. *Inorganic Chemistry* **2018**, 57, 1017–1028. **IF = 4.7. Q1. Editor’s Choice Article. Invited Front Cover.**
- 7.- E. Aguiló, A.J. Moro, M. Outis, J. Pina, D. Sarmiento, J.S. Seixas de Melo, L. Rodríguez, J.C. Lima. “Deactivation Routes in Gold(I) Polypyridyl Complexes: Internal Conversion vs Fast Intersystem Crossing”. *Inorganic Chemistry* **2018**, 57, 13423–13430. **IF = 4.7. Q1.**
- 8.- R. Gavara, J. Llorca, J.C. Lima, L. Rodríguez. “A luminescent hydrogel based on a new Au(I) complex”. *Chemical Communications*, **2013**, 49, 72-74. **IF = 6.718. Q1**
- 9.- L. Rodríguez, M. Ferrer, R. Crehuet, J. Anglada, J.C. Lima. “Correlation between Photophysical Parameters and Gold–Gold Distances in Gold(I) (4-Pyridyl)ethynyl Complexes”. *Inorganic Chemistry* **2012**, 51, 7636–7641. **IF = 4.593. Q1**
- 10.- J.C. Lima, L. Rodríguez. “Applications of gold(I) alkynyl systems: a growing field to explore”. *Chemical Society Reviews*, **2011**, 40, 5442-5456. **IF = 28.760. Q1**

C.2. Research projects and grants. Selected the 6 most significant projects.

- 1. Reference: PID2019-104121GB-I00.

Title: Herramientas supramoleculares para aumentar la emision de Fosforescencia

PI: Laura Rodríguez Raurell

Founding Agency: MINECO

Period: 01-06-2020 - 31-05-2023

Amount received (in euros): 121.000,00

- 2. Reference: CTQ2016-76120-P.

Title: Sistemas Supra- y Nanoestructurados para Reconocimiento Molecular en Agua

PI: Laura Rodríguez Raurell

Founding Agency: MINECO

Period: 30/12/2016 - 29/12/2019

Amount received (in euros): 79.860,00

- 3. Reference: 2017082311. Alba Synchrotron

Title: Identification of supramolecular gold(I) aggregates involved in biological and molecular recognition purposes

PI: Laura Rodríguez Raurell

Founding Agency: Financiado por igual entre las administraciones españolas y europeas.

Period: 1/07/2018 - 01/11/2018

Amount received (in euros): covered measurements, stage, travel expenses for the two periods granted.

- 4. Reference: UC-CLL002537

Title: Effect of aggregation on the photophysical parameters of gold(I) supramolecular aggregates

PI: Laura Rodríguez Raurell

Founding Agency: Unión Europea- CLL-Laserlab Europe

Period: 1/11/2016 - 01/03/2017

Amount received (in euros): covered measurements, stage, travel expenses for the two periods granted.

- 5. Referencia del proyecto: PIEF-GA-2012-624362 (Au_hydrogel)

Title: New luminescent hydrogels and chemosensors derived from alkynyl gold(I) complexes

PI: Laura Rodríguez Raurell

Founding Agency: EUUN (Unión Europea) – Marie Curie Actions

Period: 01/07/2014 – 30/06/2016

Amount received (in euros): 206588.60

- 6. Referencia del proyecto: CM1005

Title: Supramolecular Chemistry in water

PI: Antonella Dalla Cort (Università La Sapienza – Roma)

(I was member of the Management Committee)

Founding Agency: COST Actions – European Science Foundation

Period: 31/03/2011 – 30/03/2015

Amount received (in euros): 502.278,79

C.3. Contracts

1 - Type: Agreement

Title: Moving to unitary phosphorescent quantum yields of organic materials: the effect of gold(I).

Role: PI / Coordinator

Company: Samsung Electronics

Amount: 118.000\$ for the first year (2018-2019). In negotiation for the second year (2019-2020)

2 - Type: Marie Curie Intra European Fellowship.
Grant Agreement Number: PIEF-GA-2012-624362.
Title: Au_hydrogel.

Role: Responsible for the Project, PI

Entity: 7th European Community Framework Programme.

Amount: 206.588,60 €

This contract is also included in the Projects section due to its dual character (European research project and postdoctoral contract)

3 - Type: Scientific collaboration. Year: 2006-2008

Title: Estudio con microscopio electrónico de transmisión y barrido sobre la estructura de diferentes apósitos de espuma de poliuretano para el tratamiento de heridas con la técnica de la curación en ambiente húmedo.

Role: Researcher

Company: Empresa Smith&Nephew España

Amount: - (scientific collaboration).

C.4. Patents

Title: Dinuclear pincers as room temperature phosphorescence emitters

Authors: Yongsik Jung, Seung-Yeon Kwak, Hyeonho Choi, Kyu Young Hwang, Laura Rodríguez Raurell, João Carlos Lima

State: under final revision, to be submitted

C.5. Institutional responsibilities

1.- Secretary of the Departament of Inorganic Chemistry, Faculty of Chemistry- UB (2011-2016).

2.- Member of the Committee for the Quality of the Faculty of Chemistry (2009-2017)

3.- Vice-dean the Faculty of Chemistry in charge of Professors' contracts and Security (2017-2020)

4.- Member of the Committee for the Health and Security at the Universitat de Barcelona (in representation of the Faculty of Chemistry)

C.6. Comissions of Trust

- Expert referee for Royal Society of Chemistry, American Chemical Society, Wiley, Elsevier.

- Evaluator of projects for Agencia Nacional de Evaluación y Prospectiva (ANEP), Barcelona Institute of Science and Technology (BIST), European Commission (Marie Curie), Czech Republic and CONICYTChile

C.7. Membership of Scientific Societies

Member of the RSEQ (and GEQO and GRUFO specific groups) and of the SCQ (Societat Catalana de Química)