

Adrián Fernández Lodeiro

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ABOUT ME

ORCID: <https://tinyurl.com/mwxcj2bt>

H-Index: 13

Researcher ID: N-3417-2013

Scopus Author ID: 55337149600

Google Scholar ID: Adrián Fernández Lodeiro, <https://tinyurl.com/yc3yf8kv>

WORK EXPERIENCE

MARIE SKŁODOWSKA-CURIE ACTIONS (MSCA) POSTDOCTORAL RESEARCHER – UNIVERSITY OF CYPRUS – 02/10/2023 – 31/12/2025 – NICOSIA, CYPRUS

Project title: Biosample analysis using nanomaterials and SERS for the development of Point of Care Technologies

Nanotechnology Imaging and Detection Laboratory (NIDL), Department of Electrical and Computer Engineering, Onisilos Programme, University of Cyprus.

RESEARCH STAY – UNIVERSITY OF BOLOGNA – 03/04/2025 – 19/05/2025 – BOLOGNA, ITALY

Research stay as part of a secondment under the Marie Skłodowska-Curie Actions, conducted at the Department of Chemistry, Luminescent Nanomaterials and Sensors for Health and Environment Group, University of Bologna, Italy
<https://chemistry.unibo.it/en/department/people/visiting-professor-and-researchers>

POSTDOCTORAL RESEARCHER – NOVA UNIVERSITY OF LISBON – 04/06/2021 – 02/01/2023 – ALMADA, PORTUGAL

Bioscope Research Group, Department of Chemistry, NOVA University Lisbon, Portugal

POSTDOCTORAL RESEARCHER – PROTEOMASS SCIENTIFIC SOCIETY – 02/01/2020 – 30/05/2021 – ALMADA, PORTUGAL

Bioscope Research Group, Department of Chemistry, NOVA University Lisbon, Portugal

EDUCATION AND TRAINING

2014 – 2019 Lisboa, Portugal

PHD SUSTAINABLE CHEMISTRY Universidade Nova de Lisboa

Field of study Sustainable Chemistry, Joint Programme NOVA University Lisbon (FCT and ITQBAX), University of Porto (FC, FF and ICBAS) and University of Aveiro

Final grade Unanimously Approved | **Level in EQF** EQF level 8 |

Thesis Gold, Silver and Platinum Nanoparticles: From New Synthetic Routes to Sensing, Catalysis and Bio-Applications.

Link <https://run.unl.pt/handle/10362/72828>

15/09/2016 – 15/12/2016 Barcelona, Spain

RESEARCH STAY AS PART OF THE PHD IN SUSTAINABLE CHEMISTRY Institut de Biotecnologia i de Biomedicina, Universitat Autònoma de Barcelona (UAB)

Level in EQF EQF level 7

PUBLICATIONS

2026

[35. SERS and microfluidics: synergy for chemical sensing](#)

Chrysafis Andreou, **Adrián Fernández Lodeiro**, Marios Stavrouthe description...

Proceedings Volume 13870, Frontiers in Biological Detection: From Nanosensors to Systems XVIII

2025

[34. Chemical Change-Point Detection on a Silver Nanoplate Substrate](#)

Adrián Fernández-Lodeiro, Marios Stavrou, Marios Constantinou, Antonis Michanikou, Andreas Anastasiou, Chrysafis Andreou

IEEE 25th International Conference on Nanotechnology (NANO)

2025

[33. Scalable Production and Multifunctional Coating of Gold Nanostars for Catalytic Applications](#)

Silvia Nuti, **Adrián Fernández-Lodeiro (Corresponding Author)**, Inmaculada Ortiz-Gomez, Carlos Lodeiro, Javier Fernández-Lodeiro

Nanomaterials

2025

[32. Breath analysis via surface enhanced Raman spectroscopy](#)

Adrián Fernández-Lodeiro, Marios Constantinou, Christoforos Panteli, Agapios Agapiou, Chrysafis Andreou

ACS Sensors

2025

[31. Precise control of silver nanoplate dimensions and optical properties via pH, EDTA and AMP mediated synthesis](#)

Adrián Fernández-Lodeiro, Carlos Fernández-Lodeiro, Silvia Nuti, Ignacio Pérez-Juste, Isabel Pastoriza-Santos, Jorge Pérez-Juste, Enrique Carbo-Argibay, José L Capelo, Carlos Lodeiro, Javier Fernández-Lodeiro

Journal of Colloid and Interface Science

2024

[30. Advanced Medical SERS Applications](#)

Chrysafis Andreou, Marios Stavrou, **Adrián Fernández-Lodeiro**

Book Chapter in Surface and Tip-Enhanced Raman Scattering Spectroscopy. Springer, Singapore.

2024

[29. Synthesis, Structural Analysis, and Peroxidase-Mimicking Activity of AuPt Branched Nanoparticles](#)

Silvia Nuti, Javier Fernández-Lodeiro, José M. Palomo, José Luis Capelo, Carlos Lodeiro, **Adrián Fernández-Lodeiro (Corresponding Author)**

Nanomaterials

2024

[28. Tailoring Mesoporous Silica-Coated Silver Nanoparticles and Polyurethane-Doped Films for Enhanced Antimicrobial Applications](#)

Silvia Nuti, **Adrián Fernández-Lodeiro**, Joana Galhano, Elisabete Oliveira, Maria Paula Duarte, José Luis Capelo-Martínez, Carlos Lodeiro, Javier Fernández-Lodeiro

Nanomaterials

2023

[27. Diphenyl ditelluride assisted synthesis of noble metal-based silver-telluride 2D organometallic nanofibers with enhanced aggregation-induced emission \(AIE\) after oleylamine treatment](#)

Jamila Djafari, Frederico Duarte, Javier Fernández-Lodeiro, **Adrián Fernández-Lodeiro**, Hugo M Santos, Eva Bladt, Sara Bals, Aikaterini Flessa-Savvidou, Luis Balicas, Benito Rodríguez-González, Alcindo Aparecido Dos Santos, José Luis Capelo-Martínez, Carlos Lodeiro

Dyes and Pigments

2023

[26. Adenosine-monophosphate-assisted homogeneous silica coating of silver nanoparticles in high yield](#)

Carlos Fernández-Lodeiro, Reem Tambosi, Javier Fernández-Lodeiro, **Adrián Fernández-Lodeiro**, Silvia Nuti, Soufian Ouchane, Nouari Kébaïli, Jorge Pérez-Juste, Isabel Pastoriza-Santos, Carlos Lodeiro

Nanomaterials

2023

[25. Synthesis of tuneable gold nanostars: the role of adenosine monophosphate](#)

Carlos Fernández-Lodeiro, Javier Fernández-Lodeiro, **Adrián Fernández-Lodeiro**, Silvia Nuti, Carlos Lodeiro, Alec LaGrow, Ignacio Pérez-Juste, Jorge Pérez-Juste, Isabel Pastoriza-Santos

Journal of Materials Chemistry C

2023

[24. Synthesis and Structural Characterization of Branched Bimetallic AuPd Nanoparticles with highly tunable optical response](#)

Silvia Nuti, **Adrián Fernández-Lodeiro (Corresponding Author)**, Lidia Esther Chinchilla, Ana Belen Hungria, Jose Luis Capelo Martinez, Carlos Lodeiro, Javier Fernández-Lodeiro

The Journal of Physical Chemistry Letters

2023

[23. Copper \(I\) as reducing agent for the synthesis of bimetallic PtCu catalytic nanoparticles](#)

Adrián Fernández-Lodeiro (Corresponding Author), Javier Fernández-Lodeiro, Noelia Losada-Garcia, Silvia Nuti, José Luis Capelo-Martinez, Jose M Palomo, Carlos Lodeiro

Nanoscale Advances

2022

[22. Polyallylamine assisted synthesis of 3D branched AuNPs with plasmon tunability in the vis-NIR region as refractive index sensitivity probes](#)

Silvia Nuti, Carlos Fernández-Lodeiro, Javier Fernández-Lodeiro, **Adrián Fernández-Lodeiro**, Jorge Pérez-Juste, Isabel Pastoriza-Santos, Alec P LaGrow, Oliver Schraidt, José Luis Capelo-Martínez, Carlos Lodeiro.

Journal of Colloid and Interface Science

2021

[21. Synthesis of mesoporous silica coated gold nanorods loaded with methylene blue and its potentials in antibacterial applications](#)

Adrián Fernández-Lodeiro, Jamila Djafari, Javier Fernández-Lodeiro, Julia Lorenzo, Sergi Rodriguez Calado, Maria Paula Duarte, Elisabete Muchagato Mauricio, José Luis Capelo, Carlos Lodeiro.

Nanomaterials

2019

[20. Highly accessible aqueous synthesis of well-dispersed dendrimer type platinum nanoparticles and their catalytic applications.](#)

Adrián Fernández-Lodeiro, Jamila Djafari, David Lopez-Tejedor, Carlos Perez-Rizquez, Benito Rodriguez-Gonzalez, José Luis Capelo, Jose M. Palomo, Carlos Lodeiro, Javier Fernández-Lodeiro

2019

[19. Iron\(II\) as a green reducing agent in gold nanoparticle synthesis.](#)

Djafari, Jamila., **Fernández-Lodeiro, Adrián.**, García-Lojo, Daniel., Lodeiro, Javier., Rodríguez-González, Benito., Pastoriza-Santos, Isabel., Perez-Juste, Jorge., Capelo Martinez, Jose Luis., Lodeiro, Carlos.

ACS Sustainable Chemistry & Engineering

2019

[18. Exploring the Control in Antibacterial Activity of Silver Triangular Nanoplates by Surface Coating Modulation.](#)

Djafari, J., Fernández-Lodeiro, C., **Fernández-Lodeiro, A.**, Silva, V., Poeta, P., Igrejas, G., Lodeiro, C., Capelo, J. L., Fernández-Lodeiro, J.

Frontiers in Chemistry

2018

[17. Designing Zn\(II\) complexes as a support of bifunctional liquid crystal and luminescent materials.](#)

Pastor, M.J., Cuerva, C., **Fernández-Lodeiro, A.**, Lodeiro, C. Campo, J.A., Cano, M.

Dyes and Pigments

2018

[16. Green and Red Fluorescent Dyes for Translational Applications in Imaging and Sensing Analytes: A Dual-Color Flag](#)

Elisabete Oliveira, Emilia Bértolo, Cristina Núñez, Viviane Pilla, Hugo M. Santos, Javier Fernández-Lodeiro, **Adrian Fernández-Lodeiro**, Jamila Djafari, José Luis Capelo, Carlos Lodeiro

Chemistry Open

2017

[15. Synthesis and Characterization of PtTe₂ Multi-Crystallite Nanoparticles using Organotellurium Nanocomposites](#)

Fernández-Lodeiro, J. Rodríguez-González, B., Novio, F., **Fernández-Lodeiro, A.**, Ruiz-Molina, D., Capelo, J.L., Santos, A.A.D., Lodeiro, C

Scientific Reports

2017

[14. Novel di-substituted hexaaza-macrocyclic ligands bearing hydrazine and/or indole arms: synthesis, sensor properties and catalytic activity](#)

Lamelas, R., **Fernández-Lodeiro, A.**, Bastida, R., Labisbal, E, Macías, A., Núñez, C., Lodeiro, C., Yáñez, M

Inorganica Chimica Acta

2016

[13. Triketonate difluoroboron complexes. Substitution-dependent liquid crystal and photophysical properties](#)

Sánchez, I., **Fernández-Lodeiro, A.**, Oliveira, E., Campo, J.A., Torres, M.R., Cano, M., Lodeiro, C

Dyes and Pigments

2016

[12. Novel trans-disubstituted hexaaza-macrocyclic ligands containing pyridine head units: Synthesis, disubstitution and colorimetric properties](#)

Lamelas, R., García, V., Liñares, A., Bastida, R., Labisbal, E., **Fernández-Lodeiro, A.**, Lodeiro, C., Núñez, C., Valencia, L.

Sensors and Actuators, B: Chemical

2015

[11. Revisiting the use of gold and silver functionalised nanoparticles as colorimetric and fluorometric chemosensors for metal ions](#)

Oliveira, E, Núñez, C., Santos, H.M., Fernández-Lodeiro, J., **Fernández-Lodeiro, A.**, Capelo, J.L., Lodeiro, C

2014

[10. New-coated fluorescent silver nanoparticles with a fluorescein thiol ester derivative: Fluorescent enhancement upon interaction with heavy metal ions](#)

Fernández-Lodeiro, J., Nuñez, C., **Fernández-Lodeiro, A.**, Oliveira, E., Rodríguez-González, B., Dos Santos, A.A., Capelo, J.L., Lodeiro, C

Journal of Nanoparticle Research

2014

[9. Synthesis, spectroscopic studies and in vitro antibacterial activity of Ibuprofen and its derived metal complexes](#)

Cristina Núñez, **Adrián Fernández-Lodeiro**, Javier Fernández-Lodeiro, Julia Carballo, José Luis Capelo, Carlos Lodeiro

Inorganic Chemistry Communications

2014

[8. From visible to far-red excitable chromophores derivatives of vitamin B6. evaluation as pH-responsive probes and solvatochromic study](#)

Oliveira, E., Santos, C.I.M., Santos, H.M., **Fernández-Lodeiro, A**

Dyes and Pigments

2014

[7. Spectroscopic and photophysical studies of a naphthalene-based emissive probe for metal cations.](#)

De Castro, C.S, Sérgio Seixas De Melo, J., **Fernández-Lodeiro, A.**, Núñez, C., Lodeiro, C

Inorganic Chemistry Communications

2014

[6. From yellow to pink using a fluorimetric and colorimetric pyrene derivative and mercury \(II\) ions](#)

Pinheiro, D, De Castro, C.S, Seixas De Melo, J.S., Oliveira, E., Nuñez, C., **Fernández-Lodeiro, A.**, Capelo, J.L., Lodeiro, C.

Dyes and Pigments

2014

[5. Novel chromogenic macrocyclic molecular probes with logic gate function using anion/cation inputs](#)

García, V., **Fernández-Lodeiro, A**, Lamelas, R., Macías, A., Bastida, R., Bértolo, E, Núñez, C.

Dyes and Pigments

2013

[4. Toxicity study of new metal nanoparticles functionalized with fluorescein derivatives as novel image systems](#)

A. Fernández-Lodeiro, J. Fernández-Lodeiro, C. Nuñez, E. Oliveira, H.M. Santos, C. Lodeiro, J.L. Capelo and M.S. Diniz

Microscopy and Microanalysis

2013

[3. Polyamine Ligand-Mediated Self-Assembly of Gold and Silver Nanoparticles into Chainlike Structures in Aqueous Solution: Towards New Nanostructured Chemosensors](#)

Adrián Fernández-Lodeiro, Javier Fernández-Lodeiro, Cristina Nuñez, Rufina Bastida, José Luís Capelo Martínez, Carlos Lodeiro

Chemistry Open

2012

[2. N1-\(\(1H-Indazol-5-yl\)methylene\)-N2-\(2-\(\(2-\(\(\(1H-indazol-6l\)methylene\)amino\)ethyl\)amino\)ethyl\)amino\)ethyl\)ethane-1,2-diamine](#)

Cristina Nuñez, Javier Fernández-Lodeiro, **Adrian Fernández-Lodeiro**, Emilia Bertolo, Jose Luis Capelo, Carlos Lodeiro

Molbank

2012

[1. N1-\(Benzo\[b\]thiophen-3-ylmethylidene\)-N2-\(2-\(\(2-\(\(benzo\[b\]thiophen-3-ylmethylidene\)amino\)ethyl\)amino\)ethyl\)amino\)ethyl\)ethane-1,2-diamine](#)

Cristina Nuñez, Javier Fernández-Lodeiro, **Adrian Fernández-Lodeiro**, Emilia Bertolo, Jose Luis Capelo, Carlos Lodeiro

Molbank

● **FEATURED PUBLICATIONS**

2023

5. Synthesis and Structural Characterization of Branched Bimetallic AuPd Nanoparticles with Highly Tunable Optical Response.

Cover Picture for the publication: Synthesis and Structural Characterization of Branched Bimetallic AuPd Nanoparticles with Highly Tunable Optical Response. The Journal of Physical Chemistry Letters, ACS.

Link <https://pubs.acs.org/toc/jpclcd/14/27>

2023

4. Copper(I) as a reducing agent for the synthesis of bimetallic PtCu catalytic nanoparticles.

Backcover Picture for the publication: Copper(I) as a reducing agent for the synthesis of bimetallic PtCu catalytic nanoparticles. Nanoscale Advances, RSC.

Link <https://pubs.rsc.org/en/content/articlelanding/2023/na/d3na90088f>

2019

3. Iron(II) as a green reducing agent in gold nanoparticle synthesis.

Cover Picture for the publication: Iron(II) as a green reducing agent in gold nanoparticle synthesis. ACS Sustainable Chemistry & Engineering, ACS

Link <https://pubs.acs.org/toc/ascecg/7/9>

2017

2. Green and Red Fluorescent Dyes for Translational Applications in Imaging and Sensing Analytes: A Dual-Color Flag

Cover Picture for the publication: Green and Red Fluorescent Dyes for Translational Applications in Imaging and Sensing Analytes: A Dual-Color Flag, Chemistry Open, Wiley

Link <https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/open.201700177>

2013

1. Polyamine Ligand-Mediated Self-Assembly of Gold and Silver Nanoparticles into Chainlike Structures in Aqueous Solution: Towards New Nanostructured Chemosensors.

Cover Picture for the publication: Polyamine Ligand-Mediated Self-Assembly of Gold and Silver Nanoparticles into Chainlike Structures in Aqueous Solution: Towards New Nanostructured Chemosensors, Chemistry Open, Wiley.

Link <https://chemistry-europe.onlinelibrary.wiley.com/toc/21911363/2013/2/5-6>

● **ORAL PRESENTATIONS**

26/01/2026 – 29/01/2026

5. Are these the perfect gold nanostars? Tuning shape, scale and shine

7th International Caparica Symposium on Nanoparticles/Nanomaterials & Applications 2026 (ISN2A 2026), January 26th-29th 2026, Costa de Caparica, Portugal

14/09/2025 – 17/09/2025

4. Development of Dual-Mode SERS and Fluorescence Nanoprobes Using Mesoporous Silica-Coated Anisotropic Gold Nanoparticles

XXXIX Panhellenic Conference on Solid State Physics & Materials Science, September 2025 14th-17th, Pafos, Cyprus

Adrián Fernández-Lodeiro, Silvia Nuti, Nelsi Zaccheroni, Enrico Rampazzo, Chrysafis Andreou

05/02/2025 – 05/02/2025

3. Synthesis of metallic nanoparticles

Seminar talk at the Department of Chemistry, University of Cyprus (UCY), Cyprus.

09/10/2018 – 09/10/2018

2. Towards New multifunctional Gold NanoRODS: Synthesis and Applications

Nano Day 2018, 9th October 2018, FCT UNL, Caparica, Portugal.

02/10/2015 – 04/10/2015

1. Colorimetric Studies on the interaction with ions using two urea-containing compounds

1st International Caparica Conference on Pollutant Ions and Molecules (PTIM 2015), November 2nd-4th 2015, Costa de Caparica, Portugal.

POSTER PRESENTATIONS

23/06/2025 – 26/06/2025

27. SERS Substrates Based on Silver Nanomaterials for Dynamic Analysis via Change Point Detection

Materials Today Conference 2025 (Sitges, Spain)

Adrian Fernández-Lodeiro, Marios Stavrou, Marios Constantinou, Antonis Michanikou, Andreas Anastasiou, Chrysafis Andreou

13/01/2025 – 13/01/2025

26. Novel SERS substrates based on silver nanoparticles

Adrián Fernández-Lodeiro, Antonis Michanikou, Chrysafis Andreou

1st Conference of the Cyprus - Advanced Materials Network, University of Cyprus, Cyprus

13/01/2025 – 13/05/2025

25. Rapid and Cost-Effective Synthesis of Nanomaterials Using a Microfluidics Platform

Marios Stavrou, **Adrián Fernández-Lodeiro**, Chrysafis Andreou,

1st Conference of the Cyprus - Advanced Materials Network, University of Cyprus, Cyprus

13/01/2025 – 13/01/2025

24. Sensitive Detection of Opiorphin in Saliva Using SERS Nanoprobes on Functionalized Glass Substrates

Antonis Michanikou, **Adrián Fernández-Lodeiro**, Marios Stavrou, Nikolaos Dietis, Chrysafis Andreou

1st Conference of the Cyprus - Advanced Materials Network, University of Cyprus, Cyprus

08/12/2024 – 12/12/2024

23. Nanomaterials Synthesis for Catalytic Applications: Direct and Template-Mediated Synthesis

Adrián Fernández-Lodeiro, Javier Fernández-Lodeiro, Silvia Nuti, José M. Palomo, José Luis Capelo, Carlos Lodeiro. 5th International Caparica Christmas Conference on Translational Chemistry (IC3TC 2024), **Costa da Caparica, Portugal.**

22/01/2024 – 25/01/2024

22. Advancements in Catalytic Nanomaterial Synthesis: Exploring Direct and Template-Mediated Approaches

Fernández-Lodeiro, Adrián ;Fernandez Lodeiro, Javier ;Nuti, Silvia ;Palomo, Jose M ;Capelo, Jose ; Lodeiro, Carlos

VI International Caparica Symposium on Nanoparticles/Nanomaterials and Applications 2024, Costa de Caparica, Portugal

06/11/2023 – 09/11/2023

21. Mesoporous Silica Coated Silver Nanoparticles as Antibacterial Materials for Health and Food Applications

Silvia Nuti, **Adrián Fernández-Lodeiro**, Javier Fernández-Lodeiro, Elisabete Oliveira, Maria Paula Duarte, José Luis Capelo-Martínez, Carlos Lodeiro.

5th International Caparica Conference on Pollutant Toxic Ions and Molecules (PTIM 2023), November 6th - 9th, 2023, Costa da Caparica, Portugal

11/06/2023 – 14/06/2023

20. Synthesis and characterization of highly tunable branched Au and AuPd NPs and their optical and catalytic properties

Nuti, Silvia ;**Fernandez Lodeiro, Adrian** ;Fernandez Lodeiro, Javier ;Fernandez Lodeiro, Carlos ;Calvino Gamez, Jose Juan ;Capelo, Jose Luis ;Lodeiro, Carlos

12th international Colloids Conference,2023, Palma de Mallorca, Spain

06/12/2021 – 08/12/2021

19. Synthesis of platinum nanoparticles and catalytic application

Fernandez Lodeiro, Adrian ;Fernandez Lodeiro, Javier ;Losada Garcia, Noelia ;Nuti, Silvia ;Lodeiro Espiño, Carlos ;Capelo Martinez, Jose Luis ;Palomo Carmona, Jose M

4th International Caparica Christmas Conference on Translational Chemistry, Costa de Caparica, Portugal

24/01/2022 – 27/01/2022

18. New synthesis of platinum nanoparticles and catalytic application, from Fe to Cu

Fernandez Lodeiro, Adrian ;Fernandez Lodeiro, Javier ;Losada Garcia, Noelia ;Nuti, Silvia ;Lodeiro Espiño, Carlos ;Capelo Martinez, Jose Luis ;Palomo Carmona, Jose M

5th International Caparica Symposium on Nanoparticles/Nanomaterials and Applications 2022, Costa deCaparica, Portugal.

20/01/2020 – 23/01/2020

17. Synthesis of Mesoporous Silica Coated Gold Nanorods for Antimicrobial Studies.

Adrián Fernández-Lodeiro, Jamila Djafari, Javier Fernández-Lodeiro, Maria Paula Duarte, Elisabete Muchagato Mauricio, José Luis Capelo, Carlos Lodeiro.

4th International Symposium on Nanoparticles/Nanomaterials and Applications (ISN2A 2020).

10/06/2019 – 13/06/2019

16. Gold Nanorods@SimesDrugs Nanoparticles for Antibacterial Studies.

Adrián Fernández-Lodeiro, Jamila Djafari, Javier Fernández-Lodeiro, Maria Paula Duarte, Elisabete Muchagato Mauricio, Hugo Miguel Santo, José Luis Capelo, Carlos Lodeiro.

3rd International Caparica Conference in Antibiotic Resistance (IC2AR 2019).

21/11/2018 – 23/11/2018

15. Silver-silica core@shell nanoparticles synthesis as potential antimicrobial agentes

Javier Fernández-Lodeiro, **Adrián Fernández-Lodeiro**, Jamila Djafari, Hugo M. Santos, Elisabete Oliveira, José Luís Capelo, Carlos Lodeiro.

XXIV Encontro Luso Galego de Química, 2018, Porto, Portugal

21/11/2018 – 23/11/2018

14. Synthesis and studies of gold nanorods for drug delivery in cancer cells

Adrián Fernández-Lodeiro, Javier Fernández-Lodeiro, Jamila Djafari, Hugo M. Santos, Elisabete Oliveira, Julia Lorenzo, Jose Luis Capelo, Carlos Lodeiro.

XXIV Encontro Luso Galego de Química, 2018, Porto, Portugal.

22/01/2018 – 25/01/2018

13. New silver triangular nanoplates as antibacterial agents: Synthesis and studies.

J. Djafari, J. Fernández-Lodeiro, **A. Fernández-Lodeiro**, C. Fernández-Lodeiro, E. Oliveira, H. M. Santos, S. Jorge, E. Araújo, J. L. Capelo, C. Lodeiro.

3rd International Symposium on Nanoparticles/Nanomaterials and Applications (ISN2A 2018), 2018, Costa da Caparica, Portugal.

22/01/2018 – 25/01/2018

12. Synthesis and silica modification of gold nanorods

A. Fernández-Lodeiro, J. Fernández-Lodeiro, J. Djafari, H. M. Santos, E. Oliveira, J. L. Capelo, C. Lodeiro.

3rd International Symposium on Nanoparticles/Nanomaterials and Applications (ISN2A 2018), Costa da Caparica, Portugal.

04/12/2017 – 07/12/2017

11. Gold Nanorods for imaging and drug delivery

A. Fernández-Lodeiro, J. Fernández-Lodeiro, J. Djafari, H. M. Santos, E. Oliveira, J. L. Capelo, C. Lodeiro.

2nd International Caparica Christmas Congress on Translational Chemistry (IC3TC), Costa da Caparica, Portugal.

05/10/2017 – 06/10/2017

10. Naked and Functionalized Nanomaterials for Heavy and toxic metals detection and quantification

Adrián Fernández Lodeiro, Jamila Djafari, Javier Fernández-Lodeiro, Carlos Fernández-Lodeiro, Hugo M. Santos, Elisabete Oliveira, Jose Luis Capelo, Carlos Lodeiro.
16th Symposium on remediation in Jena "Jenaer Sanierungskolloquium". Bio-geo interactions: basic knowledge to application., Jena, Germany.

18/05/2017 – 19/05/2017

9. Gold-Shell NanoRods and Silver Triangles: Functional Anisotropic nanomaterials for imaging and drug delivery

A. Fernández-Lodeiro, J. Fernández-Lodeiro, J. Djafari, C. Fernández-Lodeiro, J. L. Capelo, C. Lodeiro.
Ewha Chemistry and Nanoscience International Symposium (ECNIS) 2017, Ewha Womans University, Seoul, Korea.

12/01/2017 – 15/01/2017

8. New strategies to combat antibiotic resistant bacteria using silver nanoparticles as drug delivery system

J. Djafari, J. Fernández-Lodeiro, **A. Fernández-Lodeiro**, C. Fernández-Lodeiro, E. Oliveira, H. M. Santos, S. Jorge, J. E. Araújo, G. Igrejas, P. Poeta, J. L. Capelo, C. Lodeiro.
2nd Internacional Caparica Conference in Antibiotic Resistance (IC2AR), Costa da Caparica, Portugal.

26/09/2016 – 26/09/2016

7. Synthesis of Nanomaterials: From rug delivery and imaging to Molecules sensors for toxic ions and metals

Adrián Fernández Lodeiro,
1st Scientific Meeting of the Doctoral Programme in Sustainable Chemistry, University of Aveiro, Portugal.

07/12/2015 – 10/12/2015

6. Anion recognition using the colometric properties of two new urea-substituted containing macrocycles

A. Fernández-Lodeiro, R. Lamelas, A. Liñares, V. Garcia, C. Nuñez, R. Bastida, C. Lodeiro.
1st International Caparica Christmas Congress on Translational Chemistry (IC3TC). Costa da Caparica, Portugal.

04/10/2015 – 07/10/2015

5. In and Out: Nanomaterials for drug delivery and imaging

A. Fernández-Lodeiro, J. Djafari, J. Fernández-Lodeiro, H. M. Santos, C. Marinho, P. Poeta, G. Igrejas, C. Lodeiro, J. L. Capelo.
2nd EuCheMS Conference on Green and Sustainable Chemistry. Campus de Caparica, Portugal.

08/12/2014 – 10/12/2014

4. Detection of Pollutant Heavy Metals using 1D Chain Nanoparticle self-structures

Adrian Fernández Lodeiro, Javier Fernández Lodeiro,
Sample Treatment, 8th-10th December 2014, Costa de Caparica, Portugal.

08/09/2014 – 10/09/2014

3. Novel Chromogenic Macrocylic Molecular Probes with Logic Gates Function Using Anion/Cation Inputs

Adrián Fernández-Lodeiro, Cristina Nuñez, Verónica Garcia, Rodrigo Lamelas, Alejandro Macias, Emilia Bertolo.
1st International Caparica Conference on Chromogenic and Emissive Materials (1st IC3EM) 2014, Costa de Caparica, Portugal.

11/04/2014 – 12/04/2014

2. Novel Colorimetric Macrocylic Molecular Probes With Logic Gates Functions

Adrian Fernández-Lodeiro
10th Inorganic Chemistry Conference, Sociedade Portuguesa de Química, 11-12 April 2014, Costa de Caparica, Portugal.

20/01/2014 – 22/01/2014

1. Towards new Hg²⁺ chemosensors based on 1D-Novel Metal Nanoparticles Structures using polyamines as linkers

Adrián Fernández-Lodeiro, Javier Fernández Lodeiro, Cristina Nuñez Gonzalez, Rufina Bastida, José Luis Capelo, Carlos Lodeiro.
1st International Symposium on Nanoparticles/Nanomaterials and Applications (ISN2A 2014), Costa da Caparica, Portugal.

PROJECTS

13/05/2024 – 27/05/2024

CarboSTARS: Amplified Molecular SERSing with Gold Nanostars on Carbon Platforms.

Short Term Scientific Mission (STSM) for the COST Action: CA19118
with Reference: E-COST-GRANT-CA19118-991dd8c6.
Host Country: Romania. Center for Microscopy-Microanalysis and Information Procession, National University of Science and Technology Politehnica Bucharest (CMMIP-NUSTPB)
Funding Amount: **EUR 3,135.00**
Role: Applicant and Principal Investigator

03/01/2022 – 02/11/2023

Novel synthetic methodologies for metal nanocatalyst based in Gold, Palladium and Platinum and the study of their catalytic performance in key reactions.

Funder: Fundação para a Ciência e Tecnologia (FCT)

Funding Amount: **EUR 50,000.00**

Project Reference: EXPL/QUI-COL/0263/2021

Role: Principal Investigator

Link <https://sciproj.ptcris.pt/169065PR>

01/01/2021 – 31/12/2023

Development of adjustable Silver@Silica nanocarriers and their stabilization in solid materials against drug resistant and non-resistant pathogenic bacteria. Towards advanced nano-antibiotics, wound dressing and anti-biofilm surfaces

Funder: Fundação para a Ciência e Tecnologia (FCT)

Funding Amount: **EUR 233,032.00**

Project Reference: PTDC/QUI-COL/1517/2020

Role: Team Member

Link <https://app.dimensions.ai/details/grant/grant.9569367>

01/05/2016 – 30/04/2019

Development of novel multifunctional nano-polyplexes as imaging and delivery vectors against triple negative breast cancer

Funder: Fundação para a Ciência e Tecnologia (FCT)

Funding Amount: **EUR 87,511.00**

Project Reference: PTDC/QEQ-MED/2118/2014

Role: Team Member

Link <https://app.dimensions.ai/details/grant/grant.4680828>

01/01/2020 – 31/12/2023

Projeto de aquisição de banho de ultrasons e câmara Térmica de Infravermelho para trabalhos em nanotecnologia e em nano-proteómica"

Project for the acquisition of an ultrasonic bath and an infrared thermal camera for work in nanotechnology and nano-proteomics.

Funder: Proteomass Scientific Society.

Funding Amount: **EUR 7,370.00**

Project Reference: Proteomass 4/2019

Role: Responsible

01/01/2020 – 01/12/2023

Projeto de aquisição de espectrofotómetro ultravioleta-visível para trabalhos em nanotecnologia e em nano-proteómica

Project for the acquisition of an ultraviolet-visible spectrophotometer for work in nanotechnology and nano-proteomics.

Funder: Proteomass Scientific Society.

Funding Amount: **EUR 19,913.00**

Project Reference: Proteomass 3/2019

Role: Team Member

01/01/2020 – 01/12/2023

Projeto de aquisição de nano-HPLC para trabalhos em nanotecnologia e em nano- proteómica

Project for the acquisition of nano-HPLC for work in nanotechnology and nano-proteomics.

Funder: Proteomass Scientific Society.

Funding Amount: **EUR 35,000.00**

Project Reference: Proteomass 2/2019

Role: Team Member

01/01/2020 – 01/12/2023

Projeto de Reequipamento (II) Instrumental do laboratório de Espectrometria de Massa Biológico Isabel Moura

Project for the Re-equipment (II) of the Instrumental Laboratory of Biological Mass Spectrometry Isabel Moura

Funder: Proteomass Scientific Society.

Funding Amount: **EUR 250,000.00**

Project Reference: Proteomass 1/2019

Role: Team Member

SPECIAL ISSUE EDITOR

2024 – CURRENT

Noble Metal-Based Nanostructures: Optical Properties and Applications

Special Issue Editor in Nanomaterials (MDPI)

Link https://www.mdpi.com/journal/nanomaterials/special_issues/BTF5718GRJ

2018 – 2019

II International Caparica Congress on Pollutant Toxic Ions and Molecules

Special Issue Editor in Journal of Hazardous Materials (Elsevier)

Link <https://www.sciencedirect.com/journal/journal-of-hazardous-materials/vol/370/suppl/C>

CONFERENCES AND SEMINARS

Conference Organization

17/07/2023 – 20/07/2023 Costa de Caparica, Almada (Portugal)

56. 5th International Caparica Conference in SPLICING 2023 (SPLICING 2023)

Member of the Organizing Committee

26/06/2023 – 29/06/2023 Costa de Caparica, Almada (Portugal)

55. 6th International Caparica Conference on Ultrasonic-based applications from analysis to synthesis (ULTRASONICS 2023)

Member of the Organizing Committee

14/11/2022 – 16/11/2022 Costa de Caparica, Almada (Portugal)

54. 3rd International Caparica Conference in Translational Forensics 2022 (FORENSICS2022)

Member of the Organizing Committee

24/10/2022 – 26/10/2022 Costa de Caparica, Almada (Portugal)

53. 3rd International Caparica Conference on Leishmaniasis 2022 (LEISHMANIASIS2022)

Member of the Organizing Committee

05/09/2022 – 08/09/2022 Costa de Caparica, Almada (Portugal)

52. 5th International Caparica Conference in Antibiotic Resistance 2022 (IC2AR2022)

Member of the Organizing Committee

18/07/2022 – 21/07/2022 Costa de Caparica, Almada (Portugal)

51. 8th International Caparica Conference on Analytical Proteomics 2022 (ICAP2022)

Member of the Organizing Committee

04/07/2022 – 07/07/2022 Costa de Caparica, Almada (Portugal)

50. 5th International Caparica Conference on Chromogenic and Emissive Materials 2022 (IC3EM2022)

Member of the Organizing Committee

24/01/2022 – 27/01/2022 Costa de Caparica, Almada (Portugal)

49. 5th International Caparica Symposium on Nanoparticles/Nanomaterials and Applications 2022 (ISN2A2022)

Member of the Organizing Committee, Member of the Scientific Committee

06/12/2021 – 08/12/2021 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

48. 4th International Caparica Christmas Conference on Translational Chemistry (IC3TC2021)

Member of the Organizing Committee

15/11/2021 – 18/11/2021 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

47. 5th International Caparica Christmas Conference on Sample Treatment 2021 (SAMPLE TREATMENT 2021)

Member of the Organizing Committee

01/11/2021 – 04/11/2021 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

46. 4th International Caparica Conference on Pollutant Toxic Ions and Molecules 2021 (PTIM 2021)

Member of the Organizing Committee

26/07/2021 – 29/07/2021 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

45. 4th International Caparica Conference in SPLICING 2021 (SPLICING 2021)

Member of the Organizing Committee

12/07/2021 – 15/07/2021 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

44. 7th International Caparica Conference on Analytical Proteomics 2021 (ICAP 2021)

Member of the Organizing Committee

14/06/2021 – 17/06/2021 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

43. 4th International Caparica Conference in Antibiotic Resistance 2021 IC2AR 2021

Member of the Organizing Committee

31/05/2021 – 03/06/2021 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

42. 5th International Caparica Conference on Ultrasonic-based applications from analysis to synthesis (ULTRASONICS 2021)

Conference Co-Chair, Conference Secretariat and Member of the Organizing Committee.

30/11/2020 – 03/12/2020 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

41. 4th International Caparica Christmas Conference on Sample Treatment 2020 ST2020

Member of the Organizing Committee.

09/11/2020 – 12/11/2020 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

40. 4th International Caparica Conference on Chromogenic and Emissive Materials 2020 IC3EM2020

Member of the Organizing Committee.

26/10/2020 – 28/10/2020 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

39. 2nd International Caparica Conference on Leishmaniasis 2020 (LEISHMANIASIS2020)

Member of the Organizing Committee.

20/07/2020 – 23/07/2020 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

38. 4th International Caparica Conference on Ultrasonic-based Applications: from analysis to synthesis 2020 (ULTRASONICS2020)

Conference Co-Chair, Conference Secretariat and Member of the Organizing Committee.

13/07/2020 – 16/07/2020 Hybrid: Costa de Caparica, Almada (Portugal)/Virtual Platform

37. 3rd International Caparica Conference in Splicing (SPLICING2020)

Member of the Organizing Committee.

03/12/2019 – 05/12/2019 Costa de Caparica, Almada (Portugal)

36. 3rd International Caparica Christmas Conference on Translational Chemistry (IC3TC2019)

Member of the Organizing Committee

18/11/2019 – 20/11/2019 Costa de Caparica, Almada (Portugal)

35. 2nd International Caparica Conference in Translational Forensics 2019 (FORENSICS 2019)

Member of the Organizing Committee

04/09/2019 – 07/09/2019 Costa de Caparica, Almada (Portugal)

34. 3rd International Caparica Conference on Pollutant Toxic Ions and Molecules 2019 (PTIM 2019)

Member of the Organizing Committee

02/09/2019 – 04/09/2019 Costa de Caparica, Almada (Portugal)

33. IV International Caparica Conference on Urine Omics and Translational Nephrology 2019 (URINOMICS 2019)

Member of the Organizing Committee

08/07/2019 – 11/07/2019 Costa de Caparica, Almada (Portugal)

32. VI International Caparica Conference on Analytical Proteomics 2019 (ICAP 2019)

Member of the Organizing Committee

10/06/2019 – 13/06/2019 Costa de Caparica, Almada (Portugal)

31. 3rd International Caparica Conference in Antibiotic Resistance 2019 (IC2AR 2019)

Member of the Organizing Committee

03/12/2018 – 06/12/2018 Costa de Caparica, Almada (Portugal)

30. 3rd International Caparica Christmas Conference on Sample Treatment. (IC3ST 2018)

Member of the Organizing Committee

29/10/2018 – 31/10/2018 Costa de Caparica, Almada (Portugal)

29. 1st International Caparica Conference on Leishmaniasis. (Leishmaniasis 2018)

Member of the Organizing Committee

03/09/2018 – 06/09/2018 Costa de Caparica, Almada (Portugal)

28. 3rd International Caparica Conference on Chromogenic and Emissive Materials. (IC3EM 2018)

Member of the Organizing Committee

16/07/2018 – 19/07/2018 Costa de Caparica, Almada (Portugal)

27. 2nd International Caparica Conference in Splicing. (Splicing 2018)

Member of the Organizing Committee

11/06/2018 – 14/06/2018 Costa de Caparica, Almada (Portugal)

26. 3rd International Caparica Conference on Ultrasonic-based Applications: from analysis to synthesis (US 2018)

Member of the Organizing Committee

22/01/2018 – 25/01/2018 Costa de Caparica, Almada (Portugal)

25. 3rd International Symposium on Nanoparticles/Nanomaterials and Applications (ISN2A 2018)

Member of the Organizing Committee

04/12/2017 – 07/12/2017 Costa de Caparica, Almada (Portugal)

24. 2nd International Caparica Christmas Congress on Translational Chemistry (IC3TC)

Member of the Organizing Committee

20/11/2017 – 23/11/2017 Costa de Caparica, Almada (Portugal)

23. 1st International Caparica Conference in Translational Forensics (FORENSICS)

Member of the Organizing Committee

06/11/2017 – 09/11/2017 Costa de Caparica, Almada (Portugal)

22. 2nd International Caparica Conference on Pollutant Toxic Ions and Molecules (PTIM)

Member of the Organizing Committee

18/09/2017 – 21/09/2017 Costa de Caparica, Almada (Portugal)

21. III International Caparica Conference on Urine Omics and Nephromics (URINOMICS)

Member of the Organizing Committee

04/09/2017 – 07/09/2017 Costa de Caparica, Almada (Portugal)

20. III International Caparica Symposium on Profiling (ISPROF)

Member of the Organizing Committee

03/07/2017 – 06/07/2017 Costa de Caparica, Almada (Portugal)

19. V International Congress on Analytical Proteomics (ICAP)

Member of the Organizing Committee

12/06/2017 – 15/06/2017 Costa de Caparica, Almada (Portugal)

18. 2nd Internacional Caparica Conference in Antibiotic Resistance (IC2AR)

Member of the Organizing Committee

05/12/2016 – 07/12/2016 Costa de Caparica, Almada (Portugal)

17. 2nd Caparica Christmas Conference on Sample Treatment (IC3ST)

Member of the Organizing Committee

12/09/2016 – 14/09/2016 Costa de Caparica, Almada (Portugal)

16. 1st International Caparica Conference in Splicing (Splicing 2016)

Member of the Organizing Committee

05/09/2016 – 08/09/2016 Costa de Caparica, Almada (Portugal)

15. 2nd International Caparica Conference on Chromogenic and Emissive Materials (IC3EM 2016)

Member of the Organizing Committee

06/06/2016 – 08/06/2016 Costa de Caparica, Almada (Portugal)

14. 2nd International Conference on Ultrasonic-based Applications: from analysis to synthesis (Ultrasonics 2016)

Member of the Organizing Committee

18/01/2016 – 21/01/2016 Costa de Caparica, Almada (Portugal)

13. 2nd International Symposium on Nanoparticles/Nanomaterials and Applications (ISN2A 2016)

Member of the Organizing Committee

07/12/2015 – 10/12/2015 Costa de Caparica, Almada (Portugal)

12. 1st International Caparica Christmas Congress On Translational Chemistry (IC3TC 2015)

Member of the Organizing Committee

02/10/2015 – 04/10/2015 Costa de Caparica, Almada (Portugal)

11. 1st International Caparica Conference on Pollutant Toxic Ions and Molecules (PTIM 2015)

Member of the Organizing Committee

28/09/2015 – 30/09/2015 Costa de Caparica, Almada (Portugal)

10. II International Caparica Conference on Urine Omics & II International Caparica Conference in Translational Nephrology, (Urinomics/Nephromics)

Member of the Organizing Committee

21/09/2015 – 24/09/2015 Costa de Caparica, Almada (Portugal)

9. II International Symposium on Profiling (ISPROF)

Member of the Organizing Committee

07/09/2015 – 09/09/2015 Costa de Caparica, Almada (Portugal)

8. IV International Conference on Analytical Proteomics, (ICAP)

Member of the Organizing Committee

26/01/2015 – 28/01/2015 Costa de Caparica, Almada (Portugal)

7. I International Caparica Conferene in Antibiotic Resistance, (IC2AR)

Member of the Organizing Committee

10/10/2014 – 10/10/2014 Costa de Caparica, Almada (Portugal)

6. 1st International Caparica Conference in Translational Nephrology & 18th Portuguese Symposium on Renal Diseases, (Nephromics 2014)

Member of the Organizing Committee

15/09/2014 – 17/09/2014 Costa de Caparica, Almada (Portugal)

5. 1st International Conference on Ultrasonic-based applications: from analysis to synthesis (Ultrasonics 2014)

Member of the Organizing Committee

08/09/2014 – 10/09/2014 Costa de Caparica, Almada (Portugal)

4. 1st International Caparica Conference on Chromogenic and Emissive Materials (IC3EM)

Member of the Organizing Committee

11/04/2014 – 12/04/2014 Costa de Caparica, Almada (Portugal)

3. 10th Inorganic Chemistry Conference of the Sociedade Portuguesa de Quimica (SPQ)

Member of the Organizing Committee

20/01/2014 – 22/01/2014 Costa de Caparica, Almada (Portugal)

2. I International Symposium on Nanoparticles/Nanomaterials and Applications (ISN2A)

Member of the Organizing Committee

18/07/2011 – 20/07/2011 Lais, Ourense (Spain)

1. 2nd International Congress on Analytical Proteomics (ICAP)

Member of the Organizing Committee

COURSES TAUGHT

24/06/2019 – 28/06/2019

Nano Proteomics Summer Course 2019 (Bioscope Group, FCT, UNL, Portugal)

Link <https://summercourse.bioscopegroup.org/wp-content/uploads/2019/01/SummerCourse2019.pdf>

23/07/2018 – 27/07/2018

Nano Proteomics Summer Course 2018 (Bioscope Group, FCT, UNL, Portugal)

Link <https://www.dq.fct.unl.pt/eventos/2018/07/nanoproteomics-summer-course-2018>

COURSES ATTENDED

13/12/2023 – 13/12/2023

Training program and practical exercise of a total duration of 2 hours for Health and Safety at University of Cyprus

24/01/2023 – 26/01/2023

Practical course to obtain the license for independent access to the SEM (FEI Quanta 650 FEG, 6 hours) and TEM (JEOL JEM-2100-HT 80-200 KV, 12 hours) at the International Iberian Nanotechnology Laboratory (INL, Braga, Portugal).

19/10/2016 – 21/10/2016

Workshop in "Bionanosystems Characterization" (Paralab S.A). Nova University of Lisbon, Portugal.

20/07/2015 – 22/07/2015

"III Hands on Course in Sample Preparation Using Nanoparticles for Proteomics" (Proteomass Scientific Society, supported by the European Proteomics Association). Nova University of Lisbon, Portugal.

19/06/2012 – 22/06/2012

"II Hands on Course in Fluorescence and Related Techniques Applied to Chemosensors"

University of Vigo, Spain

HONOURS AND AWARDS

Honours and awards

Excellent Shotgun Presentation Award, "Colorimetric studies on the interaction with ions using two urea-containing compounds", 1st International Caparica Conference on Pollutant Toxic Ions and Molecules (PTIM 2015). November 2nd-4th, 2015, Costa da Caparica, Portugal.

Best Poster Prize Award, "Gold Nanorods@SimesDrugs: Nanoparticles for Antibacterial Studies", 3rd International Caparica Conference in Antibiotic Resistance 2019, 10th- 13th June 2019. Portugal.

Best Poster Prize Award, "Synthesis of Mesoporous Silica Coated Gold Nanorods for Antimicrobial Studies." in the 4th International Caparica Symposium on Nanoparticles/Nanomaterials and Applications 2020, ISN2A 2020, 20th- 23rd January 2020, Costa de Caparica, Portugal.

● NETWORKS AND MEMBERSHIPS

2014 – CURRENT

Member of the Royal Society of Chemistry (MRSC, RSC)

02/10/2023 – 23/10/2027 Remote

Shortlisted for Scientific and Technical Support by EFSA (The European Food Safety Authority)

I have been included in the shortlist of candidates for the Notice of Call for Expressions of Interest - Scientific and Technical Support - Various Scientific and Communication Profiles - EOI/EFSA/2022/01.

2018 – CURRENT Lisbon, Portugal

Nan@rts Start-up Scientific Society

I am a researcher collaborator with NanoARTS

Link <https://www.nanoarts.org/index.html#intro>

● JOB-RELATED SKILLS

Professional Skills

I am an enthusiastic and hard-working individual who enjoys working both independently and within a team. Some of my skills related to chemical science include:

1. Synthesis of various types of inorganic and organic-based nanomaterials by known methodologies.
2. Synthesis of new nanomaterials using novel methodologies, including metal-metal reduction and biomolecule-based approaches, and application of sustainable processes for material synthesis.
3. Functionalization of nanomaterials for diverse applications.
4. Synthesis, modification, and application of fluorescent probes.
5. Independent user of Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM).
6. Knowledge in characterization techniques such as Dynamic Light Scattering (DLS), Zeta Potential (ζ -Potential), Fourier-Transform Infrared Spectroscopy (FTIR), X-ray Photoelectron Spectroscopy (XPS), X-ray Diffraction (XRD), UV-Visible Spectroscopy (UV-Vis), Fluorescence Spectroscopy, Fluorescence Lifetime Measurements, and Inductively Coupled Plasma (ICP) analysis and Raman spectroscopy including Surface-Enhanced Raman Spectroscopy (SERS), among others.

● SKILLS

Microsoft Office | Fiji | ChemDraw | KaleidaGraph | Origin | R/Rstudio (Basic) | Suite Affinity

● LANGUAGE SKILLS

Mother tongue(s): **SPANISH** | **GALICIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
PORTUGUESE	C2	C2	C2	C2	C2
ENGLISH	C1	C1	C1	C1	C1
ITALIAN	B2	B2	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● ORGANISATIONAL SKILLS

Management Skills

Excellent organizational and management skills, gained and demonstrated through:

1. Successfully organizing several international scientific conferences with different roles.
2. Leading as the Principal Investigator (PI) of a Portuguese national project, which involved coordinating research activities, managing project timelines, and ensuring the successful completion of project goals.

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Strong communication and interpersonal skills, gained and demonstrated through:

1. Excellent interpersonal skills developed through my experience in organizing scientific conferences at the Proteomass Scientific Society.
2. Presentation of scientific work in both oral and poster formats at various scientific conferences, allowing me to convey complex information clearly and engage with diverse audiences.
3. Collaborative abilities cultivated by working with interdisciplinary teams and research groups, facilitating successful project outcomes and innovative solutions.
4. Strong writing skills developed through the preparation of research papers and grant proposals, ensuring accurate and compelling dissemination of scientific findings.