

Family name, First name: **Gimeno, M. Concepción**
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Research ID: D-3474-2011



Academics and Appointments

2008-Present **Research Professor.** Spanish National Research Council ISQCH (CSIC-University of Zaragoza) Spain
2000-2008 **Senior Researcher.** Spanish National Research Council ICMA (CSIC-University of Zaragoza) Spain
1994 Stage as Scientific Visitor at University of Braunschweig, Germany
1993 Stage as Scientific Visitor at University of Braunschweig, Germany
1992 Stage as Scientific Visitor at University of Braunschweig, Germany
1991 Stage as *Salvador de Madariaga Fellow* for Scientific Staff at University of Braunschweig, Germany
1990-2000 **Tenured Scientist.** Spanish National Research Council ISQCH (CSIC-University of Zaragoza) Spain
1989-1990 **Postdoctoral Researcher.** Inorganic Chemistry. University of Zaragoza, Spain
1988-1989 **Postdoctoral Researcher.** Inorganic Chemistry. University of Bristol, England
1988 **Assistant Professor.** Inorganic Chemistry. University of Bristol, England
1985-1988 **Ph. D. Studies.** Inorganic Chemistry. University of Zaragoza, Spain
1984-1985 **Master Thesis in Inorganic Chemistry.** University of Zaragoza, Spain
1980-1985 **B.Sc. Chemistry.** University of Zaragoza, Spain

Fellowships and Awards

- **8th of March Woman of the Cariñena Region Award 2019**
- **Medal of the Aragonese Courts to the Best Scientist Women (Aragon Government, 2018)**
- **Excellence in Chemistry Research Award 2018 in Spain (Spanish Royal Society of Chemistry)**
- Tribute in the CSIC for the scientific merits achieved in the academic year 2017-2018.
- **IUPAC 2017 Distinguished Women in Chemistry Award (Between the Best 12 Chemists in the World)**
- **Excellence in Organometallic Chemistry Research Award 2017 in Spain (Spanish Royal Society of Chemistry)**
- **Best Research Group 2017 Award (Research and Future, Aragon, Spain)**
- Nominated to "**Aragoneses of the Year 2017**" by "El Periódico de Aragón" in the Science and Technology category
- Tribute in the CSIC for the scientific merits achieved in the academic year 2016-2017.
- **Fellowship CAI-EUROPA Program** for Stays of Research. Germany, 1993.
- **Fellowship CAI-EUROPA Program** for Stays of Research. Germany, 1992.
- **Salvador de Madariaga Fellowship Program** for Stays of Research. Spanish Ministry of Education and Science. Germany, 1991.
- **Spanish Fellowship for Re-incorporation as Postdoctoral Researcher.** Universidad de Zaragoza. Spain (1989-1990).
- **CSIC Postdoctoral Fellowship.** Bristol. England (1988-1989).

Participation in Research Projects Financed by Public Funds

55 projects, 20 as PI

1. Title of the project: **Synthesis and structure of new types of polynuclear gold compounds.**

Financing entity: C.A.I.C.Y.T. (n° PPB85-0129).

Time: since 1986 to 1988

Amount: 11.374.000 ptas

Principal investigator: Prof. Rafael Usón

2. Title of the project: **Synthesis, structure and reactivity of new types of organometallic gold compounds.**

Financing entity: C.S.I.C.

Time: since 1989 to 1989

Amount: 850.000 ptas

Principal investigator: Prof. Antonio Laguna

3. Title of the project: **Synthesis, structure and reactivity of new types of organometallic gold compounds.**

Financing entity: D.G.I.C.Y.T. (n° PB88-0075).

Time: since 1989 to 1992

Amount: 13.000.000 ptas

Principal investigator: Prof. Antonio Laguna

4. Title of the project: **X-ray diffraction study of organometallic gold clusters.**

Financing entity: D.G.I.C.Y.T. (n° BE91-366).

Time: since 1991 to 1991

Amount: 750.000 ptas

Principal investigator: **Prof. M. Concepción Gimeno**

5. Title of the project: **Study by X-ray diffraction of polynuclear gold and silver compounds.**

Financing entity: CAI (Programa Europa)

Time: since 1994 to 1994:

Amount: 200.000 ptas

Principal investigator: **Prof. M. Concepción Gimeno**

6. Title of the project: **Aurophilicity. X-ray diffraction study of short contacts Au...Au.**

Financing entity: CAI (Programa Europa)

Time: since 1992 to 1992

Amount: 200.000 ptas

Principal investigator: **Prof. M. Concepción Gimeno**

7. Title of the project: **Mono-, di- and polynuclear gold (I), (II) or (III) complexes. Its preparation and reactivity.**

Financing entity: D.G.I.C.Y.T. (n° PB91-0122).

Time: since 1992 to 1995

Amount: 16.500.000 ptas

Principal investigator: Prof. Antonio Laguna

8. Title of the project: **Metal-metal contacts and bonds in gold complexes.**

Financing entity: D.G.I.C.Y.T. (n° PB94-0079).

Time: since 1995 to 1998

Amount: 16.500.000 ptas

Principal investigator: Prof. Antonio Laguna

9. Title of the project: **How to modify the strength of gold-gold bonds. A theoretical and experimental study.**

Integrated Hispano-Portuguese Action.

Financing entity: D.G.I.C.Y.T. (n° HP95-55B).

Time: since 1996 to 1996

Amount: 370.000 ptas

Principal investigator: Prof. Antonio Laguna

10. Title of the project: **Study of metal interactions in poly- and heteronuclear gold compounds.**

Integrated Hispano-Portuguese Action.

Financing entity: D.G.E.S. (n° HP1997-0041).

Time: since 1998 to 1999

Amount: 990.000 ptas

Principal investigator: **Prof. M. Concepción Gimeno**

11. Title of the project: **Synthesis, structure and properties of mono- and polynuclear gold or silver complexes. Metal-metal interactions.**

Financing entity: D.G.I.C.Y.T. (n° PB97-1010-C02-01).

Time: since 1998 to 2001

Amount: 14.000.000 ptas

Principal investigator: Antonio Laguna

12. Title of the project: Chimie de coordination et nanoparticules metalliques.

Financing entity: Ambassade de France en Espagne (n° SST/98/19).

Time: since 1998 to 1998

Amount: 10.000 Francs

Principal investigator: Prof. Antonio Laguna

13. Title of the project: **Theoretical study of metal-metal interactions in polynuclear gold derivatives and their application to the synthesis of new complexes.**

Financing entity: C.S.I.C. (n° 99CL0013).

Time: since 1999 to 2000

Amount: 5 weeks, 2 travels

Principal investigator: Prof. Antonio Laguna

14. Title of the project: **Characterization and study of the properties of gold nanoparticles.**

Integrated Hispano-French Action.

Financing entity: D.G.E.S.I.C. (n° HF1999-0122).

Time: since 2000 to 2001

Amount: 1.010.000 ptas

Principal investigator: Prof. Antonio Laguna

15. Title of the project: **Study of the antitumor properties of gold complexes.**

Financing entity: D.G.A. (n° P076/2000).

Time: since 2001 to 2003

Amount: 4.000.000 ptas

Principal investigator: **Prof. M. Concepción Gimeno**

16. Title of the project: **Preparation and theoretical study of polynuclear homo- and hetero- gold complexes.**

Financing entity: CSIC/CONICYT (n° 2001CI0032).

Time: since 2001 to 2002 Amount: 6 weeks, 2 travels
Principal investigator: Prof. Antonio Laguna

17. Title of the project: **Study of metal interactions in poly- and heteronuclear gold and silver compounds.**
Integrated Hispano-Portuguese Action.
Financing entity: D.G.I. (n° HP2000-0067).
Time: since 2001 to 2003 Amount: 440.000 ptas
Principal investigator: **Prof. M. Concepción Gimeno**

18. Title of the project: **Gold and silver complexes. Preparation, structure and potential applications.**
Financing entity: D.G.I. (n° BQU2001-2409-C02-01).
Time: since 2001 to 2003 Amount: 24.000.000 ptas
Principal investigator: Prof. Antonio Laguna

19. Title of the project: **Preparation and theoretical study of heteropolinuclear gold and thallium complexes.**
Financing entity: CSIC/Universidad de Chile. (n° 2003CL0017).
Time: since 2003 to 2004 Amount: 6 weeks/2 travels
Principal investigator: Prof. Antonio Laguna

20. Title of the project: **Inorganic Chemistry of Organometallic Compounds.**
Ref. E21. Consolidated research group.
Financing entity: DGA (Ref. E21).
Time: since 2003 to 2005 Amount: 67.209 €
Principal investigator: Prof. Juan Forniés

21. Title of the project: **Study of secondary bonds in gold compounds: metal interactions and bonds through hydrogen interactions.**
Financing entity: D.G.I. HP2003-147.
Time: since 2004 to 2005 Amount: 7.650 €
Principal investigator: **Prof. M. Concepción Gimeno**

22. Title of the project: **Synthesis of gold compounds aimed to the preparation of products with new applications.**
Financing entity: Ministerio de Educación y Ciencia (BQU2004-05495-C02-01)
Time: since 2004 to 2007 Amount: 254.400 €
Principal investigator: Prof. Antonio Laguna

23. Title of the project: **Inorganic Chemistry of Organometallic Compounds.**
Ref. E21. Research Group of Excellence.
Financing entity: DGA (Ref. E21).
Time: since 2005 to 2005 Amount: 45.000 euros
Principal investigator: Prof. Juan Forniés

24. Title of the project: **Inorganic Chemistry of Organometallic Compounds.**

Ref. E21. Research Group of Excellence.

Financing entity: DGA (Ref. E21).

Time: since 2006 to 2006

Amount: 55.959,12 euros

Principal investigator: Prof. Juan Forniés

25. Title of the project: **Synthesis of luminescent gold and copper compounds and theoretical study of the origin of luminescence.**

Financing entity: Mixed commission CSIC-GRICES (2005PT0059)

Time: since 2006 to 2007

Amount: 4 travels, 4 weeks

Principal investigator: **Prof. M. Concepción Gimeno**

26. Title of the project: Organometallic chemistry of compounds containing homo and hetero metal-metal bonds - HOHEORGMET.

Financing entity: Ministerio de Educacion e Investigacion, RUMANIA (19/2006 MODUL III CEEX C2)

Time: since 2006 to 2007

Amount: 55.000 euros

Principal investigator: Prof. Cristian Silvestru (Cluj-Napoca, Rumania)

27. Title of the project: **Luminescent gold compounds. Study of intermetallic.**

Financing entity: CSIC/CONICYT. (n° 2005CL0011)

Time: since 2006 to 2007

Amount: 6 weeks, 2 travels

Principal investigator: Prof. Antonio Laguna

28. Title of the project: **Chemistry of gold and silver.**

Ref. E77. Consolidated research group.

Financing entity: DGA (Ref. E77).

Time: since 2007 to 2007

Amount: 12.564,41 euros

Principal investigator: Prof. Antonio Laguna

29. Title of the project: **Synthesis of gold and silver complexes with biomolecules aimed at the design of biologically active species.**

Financing entity: DGA (Ref. PM067/2007).

Time: since 2007 to 2009

Amount: 56.263,00 euros

Principal investigator: **Prof. M. Concepción Gimeno**

30.- Title of the project: **Design of homo- and heterometallic compounds of group 11. Structural, optical, biological properties and potential applications.**

Financing entity: Ministerio de Educación y Ciencia D.G.I. (CTQ2007-67273-C02-01)

Time: since 2007 to 2010

Amount: 295.240 €

Principal investigator: Prof. Antonio Laguna

31. Title of the project: **Chemistry of gold and silver. Excellent Reseach Group.**

Financing entity: DGA (E 77)

Time: since 2008 to 2008

Amount: 16.646 €

Principal investigator: Prof. Antonio Laguna

32. Title of the project: **Gold compounds with metalophilic interactions. Theoretical and spectroscopic study.**

Financing entity: CSIC/Universidad de Chile (n° 2008CL0009)

Time: since 2009 to 2010

Amount: 6 weeks, 2 travels

Principal investigator: Prof. Antonio Laguna

33. Title of the project: **Molecular architecture with alkynyl/thiolate gold or platinum complexes. Study of their photophysical properties.**

Financing entity: CSIC/Russian Foundation for Basic Research (RFBR) (n° 2008RU0065)

Time: since 2009 to 2010

Amount: 27.000 €

Principal investigator: Prof. Antonio Laguna

34. Title of the project: **Chemistry of gold and silver. Excellent Reseach Group.**

Financing entity: DGA (E 77)

Time: since 2009 to 2009

Amount: 20.098 €

Principal investigator: Prof. Antonio Laguna

35. Title of the project: **Design, synthesis and anti-HIV-1 study of peptide domains of GB virus C**

Financing entity: Fundación FIPSE (36-0735-09)

Time: since 2010 to 2012

Amount: 113.905 €

Principal investigator: Prof. Isabel Haro

36. Title of the project: **Chemistry of gold and silver. Excellent Reseach Group.**

Financing entity: DGA (E 77)

Time: since 2010 to 2010

Amount: 16.500 €

Principal investigator: Prof. Antonio Laguna

37.- Title of the project: **Design of group 11 compounds for optical, biological and catalytic applications.**

Financing entity: Ministerio de Ciencia e Innovación – D.G.I. (CTQ2010-20500-C02-01)

Time: since 2011 to 2013

Amount: 262.570 €

Principal investigator: **Prof. M. Concepción Gimeno**

38. Title of the project: **Chemistry of gold and silver. Excellent Reseach Group.**

Financing entity: DGA (E 77)

Time: since 2011 to 2011

Amount: 10.799 €

Principal investigator: Prof. Antonio Laguna

39. Title of the project: **Chemistry of gold and silver. Consolidated Reseach Group.**

Financing entity: DGA (E 77)

Time: since 2012 to 2012

Amount: 8.624 €

Principal investigator: Prof. Antonio Laguna

40. Title of the project: **Active tray for food preservation.**
Financing entity: Ministerio de Economía y Competitividad. INNFACTO (IPT-2012-0067-060000)
Time: since 2012 to 2014 Amount: 160.870,56 €
Principal investigator: **Prof. M. Concepción Gimeno**

41. Title of the project: **Chemistry of gold and silver. Consolidated Research Group.**
Financing entity: DGA (E 77)
Time: since 2013 to 2013 Amount: 5.617,5 €
Principal investigator: Prof. Antonio Laguna

42. Title of the project: **Chemistry of gold and silver. Consolidated Research Group.**
Financing entity: DGA (E 77)
Time: since 2014 to 2014 Amount: 6.625 €
Principal investigator: **Prof. M. Concepción Gimeno**

43. Title of the project: **New Strategies for the Oriented Synthesis of Group 11 Complexes with Optical, Biological and Catalytic Applications.**
Financing entity: Ministerio de Economía y Competitividad. (CTQ2013-48635-C2-1-P).
Time: since 2014 to 2016 Amount: 192.390 €
Principal investigator: **Prof. M. Concepción Gimeno**

44. Title of the project: **Chemistry of gold and silver. Consolidated Research Group.**
Financing entity: DGA (E 77)
Time: since 2015 to 2015 Amount: 6.806 €
Principal investigator: **Prof. M. Concepción Gimeno**

45. Title of the project: **Network of Excellence in Asymmetric Catalysis**
Financing entity: Ministerio de Economía y Competitividad (CTQ2014-55571-REDT)
Time: since 2014 to 2017 Amount: 10.000,00 euros
Principal investigator: Prof. José Manuel Saá Rodríguez

46. Title of the project: **Network of Excellence in Metals in Therapy and Diagnosis**
Financing entity: Ministerio de Economía y Competitividad (CTQ2015-70371-REDT)
Time: since 2015 to 2017 Amount: 30.000,00 euros
Principal investigator: Dr. Patrick Gamez

47. Title of the project: **Multifunctional Luminescent Spin Labile Hybrid Materials**
Financing entity: Fundação para a Ciência e Tecnologia (PTDC/QEQ-QIN/3414/2014)
Time: since 2016 to 2018 Amount: 191.879,00 euros
Principal investigator: Dr. Paulo Nuno

48. Title of the project: **Chemistry of gold and silver. Consolidated Research Group.**
Financing entity: DGA (E 77)
Time: since 2016 to 2016 Amount: 4.819 €

Principal investigator: **Prof. M. Concepción Gimeno**

49. Title of the project: **Tricoordinated gold (I) compounds with NHC ligands. Application in the design of OLEDs and in cellular imaging.**

Financing entity: Universidad de la Costa (Colombia)

Time: since 2016 to 2018

Amount: 72.000 \$

Principal investigator: Dr. Renso Visbal Acevedo

50. Title of the project: **Network of Excellence in Asymmetric Catalysis**

Financing entity: Ministerio de Economía y Competitividad (CTQ2016-81893-REDT)

Time: since 2017 to 2018

Amount: 18.000,00 euros

Principal investigator: Prof. Dr. Claudio Palomo

51. Title of the project: **Applications of Gold Compounds in Photophysics, Medicine and Catalysis**

Financing entity: Ministerio de Economía y Competitividad. (CTQ2016-75816-C2-1-P).

Financing entity: ISQCH, CSIC-Universidad de Zaragoza

Time: since 2016 to 2019

Amount: 180.290 €

Principal investigator: **Prof. M. Concepción Gimeno**

52. Title of the project: **Chemistry of gold and silver. Consolidated Research Group.**

Financing entity: DGA (E 07-17R)

Time: since 2017 to 2019

Amount: 41.770 €

Principal investigator: **Prof. M. Concepción Gimeno**

53. Title of the project: **Network of Excellence in Multifunctional Metalodrugs for Diagnosis and Therapy**

Financing entity: Ministerio de Economía y Competitividad (RED2018-102471-T)

Time: since 01.01.2020 to 31.12.2021

Amount: 20.000,00 euros

Principal investigator: **Prof. M. Concepción Gimeno**

54.- Title of the project: **High performance modular fluorometer. Scientific-Technical Equipment**

Financing entity: AEI (EQC2019-005619-P)

Time: since 01/01/2020 to 31/12/2020

Amount: 142.872,50 €

Principal investigator: **Prof. M. Concepción Gimeno**

55.- Title of the project: **Search for molecular complexity for property optimization: from materials science to medicine**

Financing entity: AEI (PID2019-104379RB-C21)

Time: since 01/06/2020 to 31/05/2023

Amount: 327.910,00 €

Principal investigator: **Prof. M. Concepción Gimeno**

Financial Support for the Organization of Congresses

Financing entity: University of Zaragoza

Organized Congress: **3ª Jornada de Jóvenes Investigadores (Física y Química) de Aragón 2012**

Principal investigator: **Prof. M. Concepción Gimeno** (President of the Organizing and Scientific Committee)

Financing entity: University of Zaragoza

Organized Congress: **4ª Jornada de Jóvenes Investigadores (Física y Química) de Aragón 2014**

Principal investigator: **Prof. M. Concepción Gimeno** (President of the Organizing and Scientific Committee)

Financing entity: University of Zaragoza

Organized Congress: **5ª Jornada de Jóvenes Investigadores (Física y Química) de Aragón 2016**

Principal investigator: **Prof. M. Concepción Gimeno** (President of the Organizing and Scientific Committee)

Financing entity: University of Zaragoza (231152)

Organized Congress: **XXXVI Reunión del Grupo Especializado de Química Organometálica 2018**

Principal investigator: Dra. Elena Cerrada Lamuela

(President of the Organizing and Scientific Committee: **Prof. M. Concepción Gimeno**)

Financing entity: DGA (Aragon Government)

Organized Congress: **XXXVI Reunión del Grupo Especializado de Química Organometálica 2018**

Principal investigator: **Prof. M. Concepción Gimeno** (President of the Organizing and Scientific Committee)

Divulagation Project

Making a video: **Materials with Biological Activity: Diagnosis and Therapy**

Project FECYT FCT-15-10128

Coordination: Delegación del Consejo Superior de Investigaciones Científicas (CSIC) en Aragón

Publications

Bibliometric analysis: 272 articles. h-index = 43. Citations: >6900

1. Synthesis of halo(ylide)gold(I) complexes

R. Usón, A. Laguna, M. Laguna, A. Usón and M. C. Gimeno.

Inorg. Chim. Acta **1986**, 114, 91–94.

2. Di- and tetra-nuclear complexes with bis(diphenylphosphino)amide and bis(diphenylphosphino)methanide as bi- and tri-dentate ligands. X-ray structures of $[(\text{Ph}_3\text{P})(\text{O}_3\text{ClO})\text{AgN}(\text{Ph}_2\text{PAuPPh}_2)_2\text{NAg}(\text{OCIO}_3)(\text{PPh}_3)]$ and $[(\text{C}_6\text{F}_5)\text{AuCH}(\text{Ph}_2\text{PAuPPh}_2)_2\text{CH-Au}(\text{C}_6\text{F}_5)]$

R. Usón, A. Laguna, M. Laguna, M. C. Gimeno, P. G. Jones, C. Fittschen and G. M. Sheldrick

J. Chem. Soc., Chem. Commun. **1986**, 509–510.

3. Novel phosphorus ylide transfer reactions from gold(I) to gold(I) or from gold(I) to gold(III) centers

R. Usón, A. Laguna, M. Laguna, A. Usón and M. C. Gimeno

Organometallics **1987**, 6, 682–683.

4. Synthesis and reactivity of neutral complexes of the types $[\text{AuX}_3(\text{ylide})]$ and $\text{trans-}[\text{Au}(\text{C}_6\text{F}_5)_2\text{X}_2(\text{ylide})]$ (X= halide or pseudohalide). X-ray structure of $[\text{Au}(\text{SCN})_3(\text{CH}_2\text{PPh}_3)]$

R. Usón, A. Laguna, M. Laguna, M. C. Gimeno, A. de Pablo, P. G. Jones, K. Meyer-Bäse and C. F. Erdbrügger

J. Organomet. Chem. **1987**, 336, 461–468.

5. Synthesis of pentahalophenyl gold complexes of ylides: A comparison of methods

R. Usón, A. Laguna, M. Laguna, A. Usón and M. C. Gimeno

Synth. React. Inorg. Metal-Org. Chem. **1988**, 18, 69–82.

6. Reactions of pentafluorophenyl(ylide)-silver(I) or -gold(I) complexes with chlorobis(pentafluorophenyl)thallium(III)

R. Usón, A. Laguna, M. Laguna, A. Usón and M. C. Gimeno

J. Chem. Soc., Dalton Trans. **1988**, 701–703.

7. Bi-, tetra-, and poly-nuclear complexes of gold(I) and silver(I) with bis(diphenylphosphino)-methanide or -amide acting as six electron donors

R. Usón, A. Laguna, M. Laguna and M. C. Gimeno

J. Chem. Soc., Dalton Trans. **1989**, 1883–1886.

8. Synthesis of (Diphenylphosphinothioyl)methyldiphenylphosphoniomethanide complexes of gold and silver. X-ray structure of $[\text{Au}(\text{C}_6\text{F}_5)\{\text{SPh}_2\text{PCH}[\text{Au}(\text{C}_6\text{F}_5)]\text{PPh}_2\text{Me}]$

R. Usón, A. Laguna, M. Laguna, M. N. Fraile, I. Lázaro, M. C. Gimeno, P. G. Jones, C. Reihls and G. M. Sheldrick

J. Chem. Soc., Dalton Trans. **1990**, 333–338.

9. Chemistry of Polynuclear Metal Complexes with Bridging Carbene or Carbyne Ligands. Part 98. Tri- and Tetra-nuclear Metal Compounds with Ethylidyne or p-Tolylmethylidyne Groups, and having both Cyclopentadienyl and Carborane

M. C. Gimeno and F. G. A. Stone

J. Chem. Soc., Dalton Trans. **1990**, 2239–2245.

10. Chemistry of Polynuclear Metal Complexes with Bridging Carbene or Carbyne Ligands. Part 99. Synthesis of the Cluster Compounds $[\text{MCoAu}(\mu\text{-CC}_6\text{H}_4\text{Me-4})(\mu\text{-CR})(\text{CO})_4(\eta\text{-C}_5\text{H}_5)(\eta\text{-C}_5\text{Me}_5)(\eta^5\text{-}$

C₂B₉H₉Me₂)] (M = Mo or W, R = C₆H₄Me-4; M = W, R = Me); Crystal Structure of the Complex [MoWCoAu(μ-CC₆H₄Me-4)(μ₃-C C₆H₄Me-4)(CO)₄(η-C₅H₅)(η-C₅Me₅)(η⁵-C₂B₉H₉Me₂)]·CH₂Cl₂.

N. Carr, M. C. Gimeno and F. G. A. Stone

J. Chem. Soc., Dalton Trans. **1990**, 2247–2252.

11. Chemistry of Polynuclear Metal Complexes with Bridging Carbene or Carbyne Ligands. Part 100. Synthesis of Mixed-metal Compounds via the Salts [NEt₄][Rh(CO)L(η⁵-C₂B₉H₉R₂)] (L = PPh₃, R = H; L = CO, R = Me); Crystal Structures of the Complexes [WRhAu(μ-CC₆H₄Me-4)(CO)₃(PPh₃)(η-C₅H₅)(η⁵-C₂B₉H₉R₂)] and [WRh₂Au₂(μ₃-CC₆H₄Me-4)(CO)₆(η-C₅H₅)(η⁵-C₂B₉H₉R₂)]·0.5CH₂Cl₂

N. Carr, M. C. Gimeno, J. E. Goldberg, M. U. Pilotti, F. G. A. Stone and I. Topaloğlu

J. Chem. Soc., Dalton Trans. **1990**, 2253–2261.

12. Chemistry of Polynuclear Metal Complexes with Bridging Carbene or Carbyne Ligands. Part 101. Synthesis of the Compounds [WPt(μ-CC₆H₄Me-4)(μ-σ:η^x-C₂B_nH_{n-1}Me₂)(CO)₂(PMe₂Ph)₂] (x = 5, n = 9; x = 6, n = 10); Crystal Structures of an Isomer of Each Complex

N. Carr, M. C. Gimeno and F. G. A. Stone

J. Chem. Soc., Dalton Trans. **1990**, 2617–2624.

13. Synthesis and X-ray crystal structure of salts of the bis(1,2-dimethyldicarbido-dodecaborane)aurate(III) anion

M. C. Gimeno, A. Laguna, M. Laguna and P. G. Jones

Inorg. Chim. Acta **1991**, 189, 117–120.

14. Two-, three- and four-co-ordinate gold(I) complexes of 1,2-bis(diphenylphosphino)-1,2-dicarbido-closo-dodecaborane

O. Crespo, M. C. Gimeno, A. Laguna and P. G. Jones

J. Chem. Soc., Dalton Trans. **1992**, 1601–1605.

15. Synthesis and X-ray characterization of the neutral organometallic gold cluster [Au₁₀(C₆F₅)₄(PPh₃)₅]

A. Laguna, M. Laguna, M. C. Gimeno and P. G. Jones

Organometallics **1992**, 11, 2759–2760.

16. Synthesis and structural characterization of polynuclear complexes containing the eight-electron donor bis(diphenylphosphino)methadiene ligand

E. J. Fernandez, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and J. M. Lopez-de-Luzuriaga

J. Chem. Soc., Dalton Trans. **1992**, 3365–3370.

17. Neutral or cationic (μ-methylene)bisylide digold(III) complexes

M. Bardají, M. C. Gimeno, J. Jiménez, A. Laguna, M. Laguna and P. G. Jones

J. Organomet. Chem. **1992**, 441, 339–348.

18. Bis(phosphine)gold(I) derivatives with 7,7',8,8'-tetracyanoquinodimethane. X-ray structure of [Au(PPh₃)₂][TCNQ]

P. J. Alonso, E. Cerrada, J. Garín, M. C. Gimeno, A. Laguna, M. Laguna and P. G. Jones

Synthetic Metals **1993**, 55–57, 1772–1776.

19. Ylide-gold(I) complexes of the types [Au(ylide)L]⁺, [Au(ylide)(CCR)] and [Au(ylide){Co(CO)₄}]

C. J. Aguirre, M. C. Gimeno, A. Laguna, M. Laguna, J. M. Lopez de Luzuriaga and F. Puente

Inorg. Chim. Acta **1993**, 208, 31–36.

20. **Five-membered methanediide auracycles. Crystal structure of $[\text{Au}(\text{C}_6\text{F}_5)_2\{\text{Ph}_2\text{PC}(\text{AuPPh}_3)-(\text{AuC}_6\text{F}_5)\text{PPh}_2(\text{CHCO}_2\text{Me})\}]$**

M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and I. Lázaro
J. Chem. Soc., Dalton Trans. **1993**, 2223–2227.

21. **Charge-transfer salts from organometallic gold(I) and gold(III) complexes**

E. Cerrada, J. Garín, M. C. Gimeno, A. Laguna, M. Laguna and P. G. Jones
Spec. Publi. R. Soc. Chem., The Chemistry of the Copper and Zinc Triads **1993**, 131, 164–167.

22. **Polynuclear derivatives of gold; synthesis, structure and reactivity**

A. Laguna, M. Laguna, M. C. Gimeno, E. J. Fernandez, J. Jiménez, M. Bardají, J. M. Lopez de Luzuriaga and P. G. Jones
Spec. Publi. R. Soc. Chem., The Chemistry of the Copper and Zinc Triads **1993**, 131, 168–171.

23. **Reactions of $[\text{Au}(\text{acac})\text{PPh}_3]$ with diphosphine derivatives: Different coordination modes of gold to the ligand systems. X-ray structure of $[\text{SPPPh}_2\text{C}(\text{AuPPh}_3)_2\text{PPh}_2\text{CH}(\text{AuPPh}_3)\text{COOMe}]\text{ClO}_4$ and $[\text{Au}_5(\text{C}_6\text{F}_5)\{(\text{SPPPh}_2)_2\text{C}\}_2(\text{PPh}_3)]$**

M. C. Gimeno, A. Laguna, M. Laguna, F. Sanmartín and P. G. Jones
Organometallics **1993**, 12, 3984–3991.

24. **Di-, tri- and tetra-nuclear gold(I) complexes with tris(diphenylphosphino)-methane or -methanide as ligand. Crystal structures of two modifications of $[(\text{O})\text{Ph}_2\text{PC}(\text{PPh}_2\text{AuPPh}_2)_2\text{C-PPh}_2(\text{O})].4\text{CH}_2\text{Cl}_2$**

E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and J. M. López de Luzuriaga
J. Chem. Soc., Dalton Trans. **1993**, 3401–3406.

25. **Synthesis and crystal structure of a novel tetranuclear complex of gold(I) with o-carborane derivatives as ligands**

O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
J. Chem. Soc., Chem. Commun. **1993**, 1696–1697.

26. **1,1'-Bis(diphenylphosphino)ferrocene (dppf) complexes of gold(I) and gold(III). Crystal structures of $[(\text{dppf})\text{AuPPh}_3]\text{ClO}_4 \cdot \text{CHCl}_3$ and $[(\text{dppf})\text{Au}(\mu\text{-dppf})\text{Au}(\text{dppf})](\text{ClO}_4)_2 \cdot 2\text{CH}_2\text{Cl}_2$**

M. C. Gimeno, A. Laguna, C. Sarroca and P. G. Jones
Inorg. Chem. **1993**, 32, 5926–5932.

27. **A hexanuclear gold(I) complex: $[\{(\text{Ph}_3\text{PAu})_2\text{C}(\text{PPh}_2\text{AuPPh}_2)\}_2](\text{ClO}_4)_2$**

E. J. Fernandez, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and J. M. Lopez de Luzuriaga
Angew. Chem. Int. Ed. Engl. **1994**, 33, 87–88.

28. **Aurophilicity at sulfur centers: synthesis and structure of the tetragold species $[(\text{Ph}_3\text{PAu})_4\text{S}](\text{CF}_3\text{SO}_3)_2 \cdot 2\text{CH}_2\text{Cl}_2$**

F. Canales, M. C. Gimeno, P. G. Jones and A. Laguna
Angew. Chem. Int. Ed. Engl. **1994**, 33, 769–770.

29. **Ylide transfer reactions used for the synthesis of di- and trinuclear gold complexes. X-ray structure of $[\text{Au}_3(\mu_2\text{-CH}_2\text{PPh}_2\text{CH}_2)_2(\text{PPh}_3)_2]\text{TCNQ}$ (TCNQ = 7,7',8,8'-tetracyanoquino-dimethano)**

E. Cerrada, M. C. Gimeno, J. Jiménez, A. Laguna, M. Laguna and P. G. Jones
Organometallics **1994**, 13, 1470–1475.

30. **Syntheses of dinuclear gold(I) ring complexes containing two different bridging ligands. Crystal structure of $[\text{Au}_2\{\mu\text{-(CH}_2\text{)}_2\text{PPh}_2\}\{\mu\text{-S}_2\text{CNET}_2\}]$**

M. Bardají, N.G. Connelly, M.C. Gimeno, J. Jiménez, P.G. Jones, A. Laguna and M. Laguna
J. Chem. Soc., Dalton Trans. **1994**, 1163–1167.

31. **Synthesis of silver(I) complexes with the bis(diphenylphosphanyl)-o-carborane ligand. Crystal structure of $[\text{Ag}(\text{phen})\{(\text{PPh}_2)_2\text{C}_2\text{B}_{10}\text{H}_{10}\}]\text{ClO}_4$ and $[\text{Ag}\{(\text{SPPH}_2)_2\text{CH}_2\}\{(\text{PPh}_2)_2\text{C}_2\text{B}_{10}\text{H}_{10}\}]\text{ClO}_4 \cdot \text{CH}_2\text{Cl}_2$**

E. Bembenek, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Chem. Ber. **1994**, 127, 835–840.

32. **Synthesis and structure of $[\text{Au}_4(\text{C}_6\text{F}_5)_2\{(\text{PPh}_2)_2\text{CH}\}_2(\text{PPh}_3)_2] \cdot 4\text{CH}_2\text{Cl}_2$, a complex with two direct gold-gold bonds**

M. C. Gimeno, J. Jiménez, P. G. Jones, A. Laguna and M. Laguna
Organometallics **1994**, 13, 2508–2511.

33. **Crystal structure of cis-bis(diphenylphosphino)ethane, $((\text{C}_6\text{H}_5)_2\text{P})_2\text{C}_2\text{H}_2$**

P. G. Jones and M. C. Gimeno
Z. Krist. **1994**, 209, 688–689.

34. **Dithiolates as bridging ligands in di- and trinuclear gold complexes. X-ray structures of $[\text{Au}_2(3,4\text{-S}_2\text{C}_6\text{H}_3\text{CH}_3)(\text{PPh}_3)_2]$, $[\text{Au}_2(1,3\text{-S}_2\text{C}_6\text{H}_4)(\text{PPh}_3)_2]$, $[\text{Au}_3(3,4\text{-S}_2\text{C}_6\text{H}_3\text{CH}_3)(\text{PPh}_3)_3]\text{ClO}_4$, and $[\text{Au}(\text{PPh}_2\text{Me})][\text{Au}(3,4\text{-S}_2\text{C}_6\text{H}_3\text{CH}_3)_2]$**

M. C. Gimeno, P.G. Jones, A. Laguna, M. Laguna and R. Terroba
Inorg. Chem. **1994**, 33, 3932–3938.

35. **Dinuclear gold(II) complexes containing two different bridging ligands. Crystal structure of $[\text{Au}_2\{\mu\text{-(CH}_2\text{)}_2\text{PPh}_2\}\{\mu\text{-S}_2\text{CN}(\text{CH}_2\text{Ph})_2\}]\text{Br}_2]$**

M. Bardají, M. C. Gimeno, P. G. Jones, A. Laguna and M. Laguna
Organometallics **1994**, 13, 3415–3419.

36. **Crystal structure of bis(triphenylphosphine)iminium bis(1,3-dithiole-2-thione-4,5-dithiolato)aurate(III) dichloromethane hemisolvate, $[\text{N}(\text{P}(\text{C}_6\text{H}_5)_3)_2]^+[(\text{C}_3\text{S}_5)_2\text{Au}] \cdot 1/2\text{CH}_2\text{Cl}_2$**

P. G. Jones, E. Cerrada, M. C. Gimeno and M. Laguna
Z. Krist. **1994**, 209, 688–689.

37. **Asymmetric monocationic and dicationic gold(II) complexes: X-ray structure of $[\text{MePh}_2\text{PAu}(\text{CH}_2\text{PPh}_2\text{CH}_2)_2\text{AuOH}_2] \cdot (\text{ClO}_4)_2 \cdot 2\text{CH}_2\text{Cl}_2 \cdot \text{H}_2\text{O}$**

M. C. Gimeno, J. Jiménez, A. Laguna, M. Laguna, P.G. Jones and R.V. Parish
J. Organomet. Chem. **1994**, 481, 37–44.

38. **Synthesis of heterometallic species with $(\text{Ph}_2\text{P})_3\text{CH}$ or $(\text{Ph}_2\text{P})_3\text{C}^-$. Crystal structures of $[\text{Mo}(\text{CO})_4\{(\text{Ph}_2\text{P})_2\text{CHPPH}_2\text{AuCl}\}]$, $[\text{Mo}(\text{CO})_4\{(\text{Ph}_2\text{P})_2\text{CHPPH}_2\text{Au}(\text{C}_6\text{F}_5)\}]$ and $[\text{NBu}_4][\text{Mo}(\text{CO})_4\{(\text{Ph}_2\text{P})_2\text{CPh}_2\text{Au}(\text{C}_6\text{F}_5)\}]$**

E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and E. Olmos
J. Chem. Soc. Dalton Trans. **1994**, 2891–2898.

39. **Tris(diphenylphosphino)methanide gold(III) complexes. Crystal structures of $[\text{Au}(\text{C}_6\text{F}_5)_2\{(\text{Ph}_2\text{P})_2\text{CPh}_2\}]$ and $[(\text{F}_5\text{C}_6)_2\text{Au}\{(\text{Ph}_2\text{P})_2\text{CPh}_2\}]\text{AuCl}$**

E. J. Fernández, M. C. Gimeno, P. G. Jones, B. Ahrens, A. Laguna, M. Laguna and J. M. López de Luzuriaga
J. Chem. Soc. Dalton Trans. **1994**, 3487–3492.

40. **Mixed four-coordinate gold(I) complexes with diphosphines or diphosphine disulfides as ligands. Crystal structure of $[\text{Au}\{(\text{PPh}_2)_2\text{C}_2\text{B}_{10}\text{H}_{10}\}\{(\text{SPPH}_2)_2\text{CH}_2\}]\text{ClO}_4\cdot\text{CH}_2\text{Cl}_2$**

O. Crespo, M. C. Gimeno, P.G. Jones and A. Laguna
Inorg. Chem. **1994**, 33, 6128–6131.

41. **New trends in aryl gold chemistry**

A. Laguna and M. C. Gimeno

Trends in Organometallic Chemistry **1994**, 1, 231–261.

42. **Synthesis, structure and reactivity of $[(\text{acaac})\text{AuCH}(\text{PPh}_2\text{AuPPh}_2)_2\text{CHAu}(\text{acac})]$, a complex containing the tridentate ligand $[\text{HC}(\text{PPh}_2)_2]^-$**

E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna, J. M. López de Luzuriaga and M. A. Rodríguez
Chem. Ber. **1995**, 128, 121–124.

43. **Synthesis and structural characterization of methanide silver(I) complexes. Unprecedented coordination of the methanide ligand in $[\text{Ag}_2(\text{PPh}_3)_2(\text{SPPH}_2\text{CHPPh}_2\text{CHCO}_2\text{Me})]\text{ClO}_4\cdot 4\text{CH}_2\text{Cl}_2$**

M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
J. Chem. Soc. Dalton Trans. **1995**, 885–910.

44. **Synthesis of dithiolate gold(III) complexes by dithiolate transfer reactions: X-ray structure of $[\text{Au}(\text{C}_6\text{F}_5)(\text{S}_2\text{C}_6\text{H}_4)(\text{PPh}_3)]$**

E. Cerrada, E. J. Fernández, M. C. Gimeno, A. Laguna, M. Laguna, R. Terroba and M. D. Villacampa
J. Organomet. Chem. **1995**, 492, 105–110.

45. **Complejos polinucleares de oro: Interacciones y enlaces metal-metal**

A. Laguna, M. Laguna and M. C. Gimeno

Conferencias plenarias. 25 Reunión Bienal Real Sociedad Española de Química 1994 **1995**, 265–283.

46. **Synthesis of silver(I) complexes with 1,1'-bis(diphenylphosphino)ferrocene (dppf). Crystal structures of $[\text{Ag}(\text{dppf})(\text{PPh}_3)]\text{ClO}_4\cdot 2\text{CH}_2\text{Cl}_2$, $[\text{Ag}(\text{dppf})_2]\text{ClO}_4\cdot 2\text{CHCl}_3$ and $[\text{Ag}(\text{dppf})(\text{phen})]\text{ClO}_4$ (phen = 1,10-phenanthroline)**

M. C. Gimeno, P.G. Jones, A. Laguna and C. Sarroca
J. Chem. Soc. Dalton Trans. **1995**, 1473–1481.

47. **Synthesis, structure and reactivity of the anionic trinuclear methanide $\text{NBu}_4\{[\text{Au}(\text{C}_6\text{F}_5)_3(\text{PPh}_2\text{CHPPh}_2)]_2\text{Au}\}$**

E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and J. M. López de Luzuriaga
Organometallics **1995**, 14, 2918–2922.

48. **Synthesis and electrochemistry of heterobridged gold(I) and gold(II) complexes of pyridine-2-thiolate. Crystal structures of $[\text{Au}_2\{\mu-(\text{CH}_2)_2\text{PPh}_2\}\{\mu-\text{C}_5\text{H}_4\text{NS}\}]$ and $[\text{Au}_2\{\mu-(\text{CH}_2)_2\text{PPh}_2\}\{\mu-\text{C}_5\text{H}_4\text{NS}\}]\text{Br}_2$**

M. Bardají, N. G. Connelly, M. C. Gimeno, P. G. Jones, A. Laguna and M. Laguna
J. Chem. Soc. Dalton Trans. **1995**, 2245–2252.

49. **1,1'-Bis(diphenylthiophosphoryl)ferrocene as a *trans*-chelating ligand in gold(I) and silver(I) complexes**
M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
J. Chem. Soc. Dalton Trans. **1995**, 3563–3564.
50. **Synthesis and structure of $[M(CO)_4\{(PPh_2)_2CHAu(PPh_3)\}]$ (M = Cr, Mo, W)**
E. J. Fernandez, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and E. Olmos
Inorg. Chim. Acta **1995**, 238, 173–177.
51. **Charge-transfer salts with mononuclear and dinuclear ylido gold(I) complexes: X-ray structure of $[Au(CH_2PPh_3)_2](TCNQ)$ (TCNQ=7,7',8,8'-tetracyanoquinodimethane)**
E. Cerrada, M. C. Gimeno, A. Laguna, M. Laguna, V. Orera and P. G. Jones
J. Organomet. Chem. **1996**, 506, 203–210.
52. **Gold(I) Complexes with the *nido*-diphosphino ligand $[7,8-(Ph_2P)_2-7,8-C_2B_9H_{10}]^-$. Preparation of the first metallocarborane complex of this ligand. Crystal structures of $[Au\{(PPh_2)_2C_2B_9H_{10}\}(PPh_3)]\cdot CH_2Cl_2$, $[Au_2\{(PPh_2)_2C_2B_9H_{10}\}_2\{(PPh_2)_2(CH_2)_3\}]\cdot 3Me_2CO$**
O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Inorg. Chem. **1996**, 35, 1361–1366.
53. **Aurophilicity at sulfur centers. Synthesis of the polyauroated species $[S(AuPR_3)_n]^{(n-2)+}$ (n = 2-6)**
F. Canales, M.C. Gimeno, A. Laguna and M. D. Villacampa
Inorg. Chim. Acta **1996**, 224, 95–103.
54. **Gold(I) and silver(I) complexes with methanide ligands $[C\{PPh_2(X)\}_3]^-$ (X = O, S). Crystal structures of $[M\{C(PPh_2(X))_3\}(PPh_3)]$ (M = Au, X = O; M = Ag, X = S)**
M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
Chem. Ber. **1996**, 129, 585–588.
55. **Aurophilicity at sulfur centers. Synthesis and reactivity of the complex $[S(Au_2dppf)]$; formation of polynuclear sulfur-centered complexes. Crystal structures of $[S(Au_2dppf)]\cdot 2CHCl_3$, $[\mu-Au_2dppf]\{S(Au_2dppf)\}_2(OTf)_2\cdot 8CHCl_3$, and $[S(AuPPh_2Me)_2(Au_2dppf)](ClO_4)_2\cdot 3CH_2Cl_2$**
F. Canales, M. C. Gimeno, A. Laguna and P. G. Jones
J. Am. Chem. Soc. **1996**, 118, 4839–4845.
56. **Diferent coordination modes of the 1,1,1-tris(diphenylphosphinomethyl)ethane ligand in gold(I) and gold(III) complexes**
E. J. Fernández, M. C. Gimeno, A. Laguna, M. Laguna, J. M. López de Luzuriaga and E. Olmos
J. Organomet. Chem. **1996**, 514, 168–175.
57. **Gold and silver complexes of methylenebis(dialkyldithiocarbamates) and the X-ray structure of $CH_2[S_2CN(CH_2Ph)_2]_2$**
M. C. Gimeno, E. Jambrina, A. Laguna, M. Laguna, H. H. Murray and R. Terroba
Inorg. Chim. Acta **1996**, 249, 69–77.
58. **Synthesis of heteropolynuclear complexes with 1,1,1-tris(diphenylphosphinomethyl)ethane. Crystal structure of $[(OC)_4Mo\{(Ph_2PCH_2)_2CMe(CH_2PPh_2)\}AuCl]$**
E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and E. Olmos
J. Chem. Soc. Dalton Trans. **1996**, 3603–3608.

59. **Synthesis and structural characterization of tetranuclear sulfur-centered complexes with mixed-valent gold atoms:** $[\text{S}(\text{Au}_2\text{dppf})\{\text{Au}(\text{C}_6\text{F}_5)_3\}_2]$ (dppf = 1,1'-bis(diphenylphosphino)-ferrocene) and $[\text{S}(\text{AuPPh}_3)_2\{\text{Au}(\text{C}_6\text{F}_5)_3\}_2]$

F. Canales, M. C. Gimeno, A. Laguna and P. G. Jones
Organometallics **1996**, *15*, 3412–3415.

60. **Tinuclear Au_2Ag and Au_2Cu complexes with mesityl bridging ligands. X-ray structure of the chain polymer** $[\{\text{Au}(\mu\text{-mes})\text{AsPh}_3\}_2\text{Ag}](\text{ClO}_4)$

M. Contel, J. Garrido, M. C. Gimeno, P. G. Jones, A. Laguna and M. Laguna
Organometallics **1996**, *15*, 4939–4943.

61. **Silver complexes with the *nido*-diphosphine $[7,8\text{-}(\text{PPh}_2)_2\text{-}7,8\text{-C}_2\text{B}_9\text{H}_{10}]$**

O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
J. Chem. Soc. Dalton Trans. **1996**, 4583–4588.

62. **Synthesis and structure of $[\text{Ti}(\text{C}_6\text{F}_5)_2\text{Cl}\{\text{Au}(\text{C}_6\text{F}_5)_3(\text{PPh}_2\text{CH}_2\text{PPh}_2(\text{O}))\}_2]$**

B. Alvarez, E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and J. M. López de Luzuriaga
J. Organomet. Chem. **1996**, *525*, 109–113.

63. **Unprecedented co-ordination mode of the tetrathio-molybdate or -tungstate anions in heterometallic gold complexes. Crystal structures of $[\text{MoS}_4(\text{AuAsPh}_3)_2]$ and $[\text{WS}_4(\text{AuCH}_2\text{PPh}_3)_2]\cdot\text{CH}_2\text{Cl}_2$**

F. Canales, M. C. Gimeno, P. G. Jones and A. Laguna
J. Chem. Soc. Dalton Trans. **1997**, 439–442.

64. **Synthesis and characterization of gold(I) complexes with the ligand 1,2-dithiolate-*o*-carborane. Crystal structures of $[\text{Au}(\text{-S}_2\text{C}_2\text{B}_{10}\text{H}_{10})(\text{PPh}_3)_2]$, $[\text{Au}_2(\mu\text{-S}_2\text{C}_2\text{B}_{10}\text{H}_{10})(\mu\text{-}\{\text{PPh}_2\}_2(\text{CH}=\text{CH}))]$, and $[\text{Au}_2(\mu\text{-S}_2\text{C}_2\text{B}_{10}\text{H}_{10})(\mu\text{-}\{\text{PPh}_2\}_2(\text{C}_6\text{H}_4))]$**

O. Crespo, M. C. Gimeno, P. G. Jones, B. Ahrens and A. Laguna
Inorg. Chem. **1997**, *36*, 495–500.

65. **Polynuclear mesityl-gold and -gold-silver derivatives. Crystal structure of $[\text{Ag}(\mu\text{-dppm})_2\{\text{Au}(\text{mes})\}_2]\text{ClO}_4\cdot 3\text{CH}_2\text{Cl}_2$ (dppm = bis(diphenylphosphino)methane, mes = mesityl)**

M. Contel, J. Garrido, M. C. Gimeno, J. Jimenez, P. G. Jones, A. Laguna and M. Laguna
Inorg. Chim. Acta **1997**, *254*, 157–161.

66. **Carbon-carbon coupling via nucleophilic addition of a methanide gold(I) complex to heterocumulenes**

M. Bardají, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna, F. Merchán and I. Romeo
Organometallics **1997**, *16*, 1083–1085.

67. **Gold(III) complexes with 1,2-disulfanyl-1,2-dicarba-*c*-closo-dodecaborane. Synthesis and partial degradation reactions of $[\text{Au}(\text{S}_2\text{C}_2\text{B}_{10}\text{H}_{10})]^-$ salts**

O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
J. Chem. Soc. Dalton Trans. **1997**, 1099–1102.

68. **Strong activation of the double bond in $(\text{PPh}_2)_2\text{C}=\text{CH}_2$. Novel synthesis of gold(III) methanide complexes by Michael addition reactions**

E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna and E. Olmos
Organometallics **1997**, *16*, 1130–1136.

69. **Small gold clusters with carborane ligands: Synthesis and structural characterization of the novel compound $[\text{Au}_4\{(\text{PPh}_2)_2\text{C}_2\text{B}_9\text{H}_{10}\}_2(\text{AsPh}_3)_2]$**

O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
Angew. Chem. Int. Ed. Engl. **1997**, *36*, 993–995.

70. **Three- and four-coordinate gold(I) complexes**

M. C. Gimeno and A. Laguna
Chem. Rev. **1997**, *97*, 511–522.

71. **Tris(amido)tingold complexes in different oxidation states. First structural characterization of a Sn-Au-Au-Sn linear chain**

B. Findeis, M. Contel, L. H. Gade, M. Laguna, M. C. Gimeno, I. J. Scowen and M. MacPartlin
Inorg. Chem. **1997**, *36*, 2386–2390.

72. **cis-[7,8-Bis(diphenylphosphino)-7,8-dicarbano-*nido*-undecaborato-P,P']dichloro-gold(III) chloroform solvate**

P. G. Jones, M. D. Villacampa, O. Crespo, M. C. Gimeno and A. Laguna
Acta Cryst., C **1997**, *53*, 570-572.

73. **Synthesis of heteropolynuclear gold complexes with tetrathiomolybdate or tetrathiotungstate as ligands**

F. Canales, M.C. Gimeno and A. Laguna
An. Quim. Int. Ed. **1997**, *93*, 168–170.

74. **Gold(I) complexes with biologically active thiolate ligands**

M. C. Gimeno, E. Jambrina, E. J. Fernández, A. Laguna, M. Laguna, P. G. Jones, F. L. Merchán and R. Terroba
Inorg. Chim. Acta **1997**, *258*, 71–75.

75. **Synthesis of the first organometallic gold(I) derivatives of *m*-carborane: crystal structure of $[\text{Au}_2(\mu\text{-}1,7\text{-}\text{C}_2\text{B}_{10}\text{H}_{10})(\text{PPh}_3)_2] \cdot 1/2\text{CH}_2\text{Cl}_2$**

O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
J. Organomet. Chem. **1997**, *531*, 87–90.

76. **7,8-Bis(pyridinium-2-ylthio)-7,8-dicarbano-*nido*-undecaborate. Trifluoromethanesulfonate**

P. G. Jones, O. Crespo, M. C. Gimeno and A. Laguna
Acta Cryst., C **1997**, *53*, 767–768.

77. **Gold(I)-Gold(III) interactions in polynuclear sulfur-centered complexes. synthesis and structural characterization of $[\text{S}(\text{Au}_2\text{dppf})\{\text{Au}(\text{C}_6\text{F}_5)_3\}]$ and $[\{\text{S}(\text{Au}_2\text{dppf})\}_2\{\text{Au}(\text{C}_6\text{F}_5)_2\}]\text{OTf}$ (dppf = 1,1'-bis(diphenylphosphino)ferrocene)**

M. J. Calhorda, F. Canales, M. C. Gimeno, J. Jiménez, P. G. Jones, A. Laguna and L. F. Veiros
Organometallics **1997**, *16*, 3837–3844.

78. **Synthesis and characterisation of gold-(I) and-(III) complexes with 1-methyl-2-sulfanyl-1,2-dicarbano-*closo*-dodecaborate**

O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
J. Chem. Soc. Dalton Trans. **1997**, 2963–2967.

79. **Coordination compounds of coinage metals with vinylidenebis(diphenylphosphane) and its disulfide and their reactivity towards nucleophiles**

E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga and E. Olmos
Chem Ber. **1997**, *130*, 1513–1517.

80. **Synthesis of highly stable intermediates in Michael-type additions to the double bond in $(SPh)_2C=CH_2$**
E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga and E. Olmos
J. Chem. Soc., Dalton Trans. **1997**, 3515–3518.
81. **Substitution reaction studies on $[Au_2Cl_2(\mu-dppf)]$ (dppf = 1,1'-bis(diphenylphosphino)-ferrocene).
Synthesis of the first gold(I) complex with a μ_3 -2-pyridinethiolate ligand**
F. Canales, M.C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
Inorg. Chem. **1997**, 36, 5206–5211.
82. **Synthesis of gold(III) complexes with the 1,2-dithiolate-o-carborane ligand. Crystal structures of $[N(PPh_3)_2][AuCl_2(S_2C_2B_{10}H_{10})]$ and $[AuCl(S_2C_2B_{10}H_{10})(CH_2PPh_3)]$**
O. Crespo, M. C. Gimeno, P.G. Jones and A. Laguna
J. Organomet. Chem. **1997**, 547, 89–95.
83. **Synthesis and characterization of $[Ag_4(\mu_3-SC_2B_{10}H_{11})_2(\mu-O_3SCF_3)_2(PPh_3)_4]$: A silver complex with a μ_3 -thiolate ligand**
M. M. Artigas, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M.D. Villacampa
Inorg. Chem. **1997**, 36, 6454–6456.
84. **μ -[7,8-Bis(diphenylphosphino)-7,8-dicarba-*nido*-undecaborato-1 κ P,2 κ P']-(pentafluoro-phenyl)-1 κ C)(triphenylphosphine-2 κ P)digold(I). Dichloromethane Solvate**
O. Crespo, M. C. Gimeno, A. Laguna and M. D. Villacampa
Acta Cryst., C **1998**, 54, 203–205.
85. **A Silver(I) center solely bonded to four gold(I) atoms**
M. Contel, J. Garrido, M. C. Gimeno, M. Laguna
J. Chem. Soc., Dalton Trans. **1998**, 1083–1084.
86. **Synthesis and Reactivity of the First (Hydrosulfido)gold(III) Complex. Crystal Structure of the Derivatives $NBu_4[\{Au(C_6F_5)_3\}_2SR]$ with the Isolobal Fragments R = H, AuPPh₃, AgPPh₃**
F. Canales, S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Organometallics **1998**, 17, 1617–1621.
87. **Co-ordination chemistry of 1,1'-bis(diphenylthiophosphoryl)ferrocene (dptpf) towards silver(I). Crystal structure of the polymeric complex $[Ag_2(\mu-dptpf)\{(SPh)_2CH_2\}_2]_n (ClO_4)_{2n}$**
M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
J. Chem. Soc., Dalton Trans. **1998**, 1277–1280.
88. **Gold complexes with mono- or di-chalcogenides of bis(diphenylphosphino)methanide ligands. X-ray crystal structure of $[Au(C_6F_5)_2\{(SPh)_2C(AuAsPh_3)_2\}]ClO_4$**
B. Alvarez, E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna and J. M. López de Luzuriaga
Polyhedron **1998**, 17, 2029–2935.
89. **A double sandwich silver(I) polymer with 1,1'-bis(diethylthiocarbamate)ferrocene**
O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
Chem. Commun. **1998**, 1481–1482.
90. **Gold(I) complexes with the ligand 1-thiolate-1,2-dicarba-*c*-oso-dodecaborate. Crystal structure of $[Au_2(1-S-1,2-C_2B_{10}H_{11})(\mu-dppe)]$**
M. M. Artigas, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa

J. Organomet. Chem. **1998**, *561*, 1–6.

91. Synthesis and reactivity of the ligand 1,2-bis(pyridine-2-ylthio)-1,2-dicarba-closo-dodecaborane. Crystal structure of $[\text{Ag}\{1,2-(\text{C}_5\text{H}_4\text{NS})_2-1,2-\text{C}_2\text{B}_{10}\text{H}_{10}\}(\text{PPh}_3)]\text{OTf}$

O. Crespo, M.C. Gimeno and A. Laguna
J. Organomet. Chem. **1998**, *561*, 13–18.

92. Synthesis and crystallographic characterisation of silver complexes with the ligand diferrocenylphenylphosphine

M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
Polyhedron **1998**, *17*, 3681–3688.

93. Gold(I) and gold(III) complexes with the 1,1'-bis(diethyldithiocarbamate)ferrocene ligand

M. C. Gimeno, P. G. Jones, A. Laguna, C. Sarroca, M. J. Calhorda and L. F. Veiros
Chem. Eur. J. **1998**, *4*, 2308–2314.

94. Heterobimetallic complexes of gold(I) with the tetrathiovanadate anion. Crystal structure of $[\text{VS}_4(\text{AuPPh}_3)_2\{\text{Au}(\text{PPh}_3)_2\}]$

F. Canales, M. C. Gimeno and A. Laguna
Inorg. Chem. **1998**, *37*, 5376–5379.

95. Dithiocarbamate ligands as building-blocks in the coordination chemistry of gold

E. J. Fernández, J. M. López de Luzuriaga, M. Monge, E. Olmos, M. C. Gimeno, A. Laguna and P. G. Jones
Inorg. Chem. **1998**, *37*, 5532–5536.

96. Theoretical evidence for transannular metal-metal interactions in dinuclear coinage metal complexes

E. J. Fernández, J. M. López de Luzuriaga, M. Monge, M. A. Rodríguez, O. Crespo, M. C. Gimeno, A. Laguna and P. G. Jones
Inorg. Chem. **1998**, *37*, 6002–6006.

97. Two alternatives for the synthesis of non-cyclic phosphino-methanide derivatives of gold

E. J. Fernández, M. C. Gimeno, A. Laguna, J. M. López de Luzuriaga and E. Olmos
Polyhedron **1998**, *17*, 3919–3925.

98. Organometallic gold derivatives with the $[1-\text{Si}^i\text{BuMe}_2-1,2-\text{C}_2\text{B}_{10}\text{H}_{10}]$ -carboranyl ligand. Crystal structure of $[1-\{\text{Au}(\text{PPh}_3)-2-\text{Si}^i\text{BuMe}_2-1,2-\text{C}_2\text{B}_{10}\text{H}_{10}\}]$

O. Crespo, M. C. Gimeno, A. Laguna and A. M. Peña
Polyhedron **1998**, *17*, 4163–4167.

99. Synthesis of the ferrocene derivative $\text{FcCHN}(\text{CH}_2)_2\text{SH}$ [$\text{Fc} = (\eta^5-\text{C}_5\text{H}_5)\text{Fe}(\eta^5-\text{C}_5\text{H}_4)$]: Reactivity towards (phosphine)gold(I) cations

E. M. Barranco, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
Inorg. Chem. **1999**, *38*, 702–706.

100. Synthesis of some new mono- and di-substituted o-carborane derivatives with thiolate and carbamate moieties: crystal structure of $1-(\text{SNC}_5\text{H}_4)-1,2-\text{C}_2\text{B}_{10}\text{H}_{11}$

O. Crespo, M.C. Gimeno and A. Laguna
Polyhedron **1999**, *18*, 1279–1283.

101. **Synthesis of the first gold complex with a central μ^4 -selenido ligand**
S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Chem. Commun. **1999**, 679–680.
102. **Synthesis of gold-(I) and -(III) complexes with diferrocenylphenylphosphine (PFc₂Ph). Crystal structure of [Au(PFc₂Ph)₂]ClO₄**
M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
J. Organomet. Chem. **1999**, 579, 206–210.
103. **Synthesis of [Au₂(SC₆F₅)₂(μ -dppf)] and [Au₂(μ -SC₆F₅)(μ -dppf)] (dppf = 1,1'-bis(diphenylphosphino)ferrocene). Reactivity toward various metallic fragments**
O. Crespo, F. Canales, M. C. Gimeno, P. G. Jones and A. Laguna
Organometallics **1999**, 18, 3142–3148.
104. **Synthesis of gold ferrocenyl substituted ylides and methanides: crystal structure of [FcCH(AuPPh₃)PPh₃]ClO₄ [Fc = (η^5 -C₅H₅)Fe(η^5 -C₅H₄)]**
E. M. Barranco, M. C. Gimeno and A. Laguna
Inorg. Chim. Acta **1999**, 291, 60–65.
105. **Synthesis of reactivity of [Au(2-CH₂-6-RC₅H₃N)(PPh₃)] (R = H, Me). X-ray structure of [Ag{Au(2-CH₂-6-MeC₅H₃N)(PPh₃)₂}]ClO₄**
J. E. Casas, M. C. Gimeno, P. G. Jones, A. Laguna and M. Laguna
J. Chem. Soc., Dalton Trans. **1999**, 2819–2822.
106. **Aurophilicity at chalcogenide centers. Synthesis of polynuclear chalcogenido-centered complexes with gold-gold interactions**
O. Crespo, M.C. Gimeno and A. Laguna
Metal clusters in chemistry (Ed. P. Braunstein, L.A. Oro and P.R. Raithby) 1999, pp 477–492.
107. **Gold chemistry with ferrocene derivatives as ligands**
M. C. Gimeno and A. Laguna
Gold Bull. **1999**, 32, 90–95.
108. **Synthesis, structure and redox behaviour of gold and silver complexes with 3-ferrocenylpyridine**
E. M. Barranco, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
J. Organomet. Chem. **1999**, 592, 258–264.
109. **7-{Diphenyl[(triphenylphosphine)aurio]phosphine(1+)-P}-8-methyl-7,8-dicarba-*nido*-undecaborate(1-) dichloromethane hemisolvate**
O. Crespo, M.C. Gimeno, P.G. Jones and A. Laguna
Acta Cryst., C **2000**, 56, 46–47.
110. **Preparation of *nido*-carborane derivatives: Variation of the ³¹P{¹H} NMR pattern by changing the coordinating ligand. A microscale laboratory**
O. Crespo, M. C. Gimeno and A. Laguna
J. Chem. Ed. **2000**, 77, 86–88.
111. **Gold and silver complexes with the ferrocenyl phosphine FcCH₂PPh₂ [Fc = (η^5 -C₅H₅)Fe(η^5 -C₅H₄)]**
E. M. Barranco, O. Crespo, M. C. Gimeno, A. Laguna, P. G. Jones and B. Ahrens

Inorg. Chem. **2000**, *39*, 680–687.

112. Heteropolynuclear complexes with the ligand Ph₂PCH₂SPh. Theoretical evidence for relativistic Au-M interactions

E. J. Fernández, J. M. López de Luzuriaga, M. Monge, M. A. Rodríguez, M. C. Gimeno, A. Laguna and P. G. Jones
Chem. Eur. J. **2000**, *6*, 636–644.

113. 1,1'-Bis(diphenylthiophosphoryl)ferrocene complexes of gold(I) and gold(III)

M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
J. Organomet. Chem. **2000**, *596*, 10–15.

114. Compuestos do oro en medicina. Crisoterapia

A. Laguna and M.C. Gimeno
An. Quim. **2000**, 16–20.

115. Luminescent characterization of solution oligomerization process mediated gold-gold interactions. DTF calculations on [Au₂Ag₂R₄L₂]_n moieties

E. J. Fernández, M.C. Gimeno, A. Laguna, J.M. López de Luzuriaga, M. Monge, P. Pyykkö and D. Sundholm
J. Am. Chem. Soc. **2000**, *122*, 7287–7293

116. Gold(I) complexes containing the cationic ylide ligand bis(methyldiphenylphosphonio)methylide

I. Romeo, M. Bardají, M. C. Gimeno and M. Laguna
Polyhedron **2000**, *19*, 1837–1841.

117. Synthesis, structure, luminescence, and theoretical studies of tetranuclear gold clusters with phosphinocarborane ligands

M. J. Calhorda, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga, J. L. Pérez, A. Ramón and L. F. Veiros
Inorg. Chem. **2000**, *39*, 4280–4285.

118. Bis(diphenylphosphino)-ferrocene or -dicarba-closo-dodecaborane as ligands in gold and silver chemistry

O. Crespo, M. C. Gimeno and A. Laguna
Appl. Organometal. Chem. **2000**, *14*, 644–652.

119. Polynuclear gold complexes with bridging selenido ligands. Theoretical studies of gold-gold interactions

S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and F. Mendizabal
Organometallics **2000**, *19*, 4985–4994.

120. Solvent-free [μ-ferrocene-1,1'-diylbis(diphenylphosphine-P)]bis[chlorogold(I)]

O. Crespo, M. C. Gimeno, P.G. Jones and A. Laguna
Acta Cryst., C **2000**, *56*, 1433–1434.

121. Heteropolynuclear phosphide complexes: Phosphorus as unique atom bridging coinage metal centres

M. C. Blanco, E. J. Fernández, J. M. López de Luzuriaga, M. E. Olmos, O. Crespo, M. C. Gimeno, A. Laguna and P. G. Jones
Chem. Eur. J. **2000**, *6*, 4116–4123.

122. Coordination chemistry of 1,1'-bis(diphenylselenophosphoryl)ferrocene (dpspf) towards group 11 elements. Crystal structures of [Ag(dpspf){(SPPPh₂)₂CH₂}]OTf and [Au(dpspf)][AuCl₂]

S. Canales, O. Crespo, M. C. Gimeno, P.G. Jones and A. Laguna
J. Organomet. Chem. **2000**, *613*, 50–55.

123. Microscale preparation of *closo*- and *nido-ortho*-carborane derivatives

O. Crespo, M. C. Gimeno and A. Laguna
Rev. Educ. Cienc. **2001**, *2*, 48–51.

124. 1,1'-Bis(diphenyloxophosphoryl)ferrocene (dpopf) as ligand in silver(I) complexes. Crystal structure of [Ag(dpopf)(PPh₃)₂]ClO₄

M. C. Gimeno, P. G. Jones, A. Laguna, C. Sarroca and M. D. Villacampa
Inorg. Chim Acta **2001**, *316*, 89–93.

125. 1,1'-Bis(2-pyridylthio)ferrocene: a new ligand in gold and silver chemistry

E. M. Barranco, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
Dalton Trans. **2001**, 2523–2529.

126. Synthesis and characterisation of copper complexes with *N*-ferrocenoyl-*N'*-aryl(alkyl)thioureas

Y. F. Yuan, J. T. Wang, A. Laguna, M. C. Gimeno and P. G. Jones
Inorg. Chim Acta **2001**, *324*, 309–317.

127. Mixed gold(I)-gold(III) complexes with bridging selenido ligands. Theoretical studies of the gold(I)-gold(III) interactions

S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and F. Mendizabal
Organometallics **2001**, *20*, 4812–4818.

128. Synthesis of homo- and hetero-polynuclear coinage metal complexes of 2-(diphenylphosphino)aniline

O. Crespo, E. J. Fernández, M. Gil, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López-de-Luzuriaga and M. E. Olmos
Dalton Trans. **2002**, 1319–1326.

129. Gold and silver complexes with the ligands Fc(SPh)₂ and Fc(SePh)₂ (Fc = (η⁵-C₅H₄)₂Fe)

S. Canales, O. Crespo, A. Fortea, M. C. Gimeno, P. G. Jones and A. Laguna
Dalton Trans. **2002**, 2250–2255.

130. Luminescent *nido*-carborane-diphosphine anions [(PR₂)₂C₂B₉H₁₀]⁻ (R = Ph, ⁱPr). Modification of their luminescence properties upon formation of three-coordinate gold(I) complexes

O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López-de-Luzuriaga, M. Monge, J. L. Pérez and M. A. Ramón
Inorg. Chem. **2003**, *42*, 2061–2068.

131. Gold and silver complexes with the diselenium ligand [Ph₂P(Se)NP(Se)Ph₂]⁻

S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, A. Silvestru and C. Silvestru
Inorg. Chim. Acta **2003**, *347*, 16–22.

132. Gold, silver and palladium complexes with the 2,2'-dipyridylamine ligand

M. Burgos, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Eur. J. Inorg. Chem. **2003**, 2170–2174.

133. Synthesis and structure of new carborane-substituted cyclotriphosphazenes

D. Abizanda, O. Crespo, M. C. Gimeno, J. Jiménez and A. Laguna
Chem. Eur. J. **2003**, *9*, 3310–3319.

134. **Some recent highlights in gold chemistry**

M. C. Gimeno and A. Laguna
Gold Bull. **2003**, 36, 83–92.

135. **Gold and silver derivatives with the carborane-selenolate ligand [B₁₀H₁₁C₂Se]⁻**

S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and P. Romero
Dalton Trans. **2003**, 4525–4528.

136. **Silver and Gold**

M. C. Gimeno and A. Laguna
***Comprehensive Coordination Chemistry II* 2003**, 6, 911–1145.
Elsevier (J.A. MacCleverty, T.J. Meyer, Eds)

137. **Gold and silver complexes with the ligands *N*-[bis(isopropoxy)thiophosphoryl]-*N'*-phenylthiourea**

O. Crespo, V. V. Brusco, M. C. Gimeno, M. L. Tornil, A. Laguna and N. G. Zabirov
Eur. J. Inorg. Chem. **2004**, 423–430.

138. **New organomercury(II) compounds containing intramolecular N→Hg interactions: crystal and molecular structure of [2-(Me₂NCH₂)C₆H₄]Hg[Au(dpspf)][AuCl₂]**

O. Bumbu, C. Silvestru, M. C. Gimeno and A. Laguna
J. Organomet. Chem. **2004**, 689, 1172–1179.

139. **Intensely luminescent gold(I)-silver(I) cluster complexes with tunable structural features.**

Q. M. Wang, Y. A. Lee, O. Crespo, J. Deeton, C. Tang, H. J. Gysling, M. C. Gimeno, C. Larraz, M. D. Villacampa, A. Laguna and R. Eisenberg
J. Am. Chem. Soc. **2004**, 126, 9488–9489.

140. **Synthesis and theoretical studies of a double helical complex with the ligand 4',4'''-bis(ferrocenyl)-2,2':6',2''':6''',2''''':6''''',2''''''-quinquepyridine**

J. E. Aguado, M. J. Calhorda, P. J. Costa, O. Crespo, V. Félix, M. C. Gimeno, P. G. Jones and A. Laguna
Eur. J. Inorg. Chem. **2004**, 3038–3047.

141. **Selenolate gold complexes with aurophilic Au(I)-Au(I) and Au(I)-Au(III) interactions**

S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Inorg. Chem. **2004**, 43, 7234–7238.

142. **The role of secondary interactions in group 11 metal complexes containing the ferrocene ligand FcCH₂NHpyMe in supramolecular structures**

E. M. Barranco, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Eur. J. Inorg. Chem. **2004**, 4820–4827.

143. **Silver(I) complexes with the 1,1'-bis(diethylthiocarbamate)ferrocene ligand. Polymeric chain species.**

M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca.
Z. Naturforsch. Teil B **2004**, 59, 1365–1371.

144. **Unprecedented η³-M₃ coordination mode in a terpyridine ligand**

J. E. Aguado, M. J. Calhorda, M. C. Gimeno and A. Laguna
Chem. Commun. **2005**, 3355–3356.

145. **Gold and silver complexes with the ferrocenyl-pyrazolate ligand FcCH₂pz**

E. M. Barranco, M. C. Gimeno, A. Laguna and M. D. Villacampa
Inorg. Chim. Acta **2005**, 358, 4177–4182.

146. Group 11 complexes with unsymmetrical P,S and P,Se disubstituted ferrocene ligands

J. E. Aguado, S. Canales, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
Dalton Trans. **2005**, 3005–3015.

147. Group 11 Complexes the bis(3,5-bis-dimethylpyrazol-1-yl)methane ligand. How secondary bonds can influence the coordination environment of Ag(I): the role of coordinated water in $[Ag_2(\mu-L)_2(OH)_2](OTf)_2$

M. J. Calhorda, P. J. Costa, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, M. Naranjo, S. Quintal, Y.-J. Shi and M. D. Villacampa
Dalton Trans. **2006**, 4104–4113.

148. Catena-Poly[[trifluoromethanesulfonato-κO)silver(I)]-μ-di-2-pyridyl-amine-κ²N²:N²], a chain polymer with short Ag...C contacts

P. G. Jones, O. Crespo, M. C. Gimeno and A. Laguna
Acta Crystallogr. Sect. C **2006**, 62, m411– m412.

149. Synthesis and ligand properties towards gold and silver of the ferrocenylamidobenzimidazole ligands

M. J. Calhorda, P. J. Costa, P. N. Martinho, M. C. Gimeno, A. Laguna, S. Quintal and M. D. Villacampa
J. Organomet. Chem. **2006**, 691, 4181–4188.

150. New polynuclear Mo-Fe complexes with ferrocenylamidobenzimidazole ligands

P. N. Martinho, S. Quintal, P. Costa, S. Losi, V. Felix, M. C. Gimeno, A. Laguna, M. G. B. Drew, P. Zanello and M. J. Calhorda.
Eur. J. Inorg. Chem. **2006**, 4096–4103.

151. Chalcogenide centered gold complexes

M.C. Gimeno and A. Laguna
Comments Inorg. Chem. **2006**, 27, 127–143.

152. Thiolates, selenolates and tellurolates

M. C. Gimeno
Handbook on Chalcogen Chemistry, New Perspectives in Sulfur, Selenium and Tellurium. Royal Society of Chemistry (F. A. Devillanova, Ed.) **2007**, pp 31–80 .

153. Group 11 complexes with the bidentate $(SePPh_2)_2CH_2$ and tridentate $[(SePPh_2)_2CH]$ ligands

S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Z. Naturforsch. **2006**, 62b, 407–412.

154. Highly luminescent gold(I)-silver(I) and gold(I)-copper(I) chalcogenide clusters

O. Crespo, M. C. Gimeno, A. Laguna, C. Larraz and M. D. Villacampa
Chem. Eur. J. **2007**, 13, 235–246.

155. Gold-catalyzed benzylic C-H activation at room temperature

S. K. Hashmi, S. Schäfer, M. Wölfe, C. Diez Gil, P. Fischer, A. Laguna, M. C. Blanco and M.C. Gimeno
Angew. Chem. Int. Ed. **2007**, 46, 6184–6187.

156. **Unprecedented gold-telluroate clusters $[\text{Au}_8(\mu\text{-TeR})_8(\text{PR}'_3)_4]$**
O. Bumbu, C. Ceamanos, O. Crespo, M. C. Gimeno, A. Laguna, C. Silvestru and M. D. Villacampa
Inorg. Chem. **2007**, *46*, 11457–11460.
157. **Metal complexes with mono- and bis[[bis(2-pyridyl)amino]carbonyl]ferrocene ligands**
J. E. Aguado, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and Y. Nieto
Eur. J. Inorg. Chem. **2008**, 3031–3039.
158. **Unprecedented formation of novel phosphonodithioate ligands from diferrocenyldithiadiphosphetane disulfide**
E. M. Barranco, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna
Inorg. Chem. **2008**, *47*, 6913–6918.
159. **Chalcogenide centred gold complexes**
M.C. Gimeno and A. Laguna
Chem. Soc. Rev. **2008**, *37*, 1952–1966.
160. **The chemistry of gold**
M. C. Gimeno
Modern Supramolecular Gold Chemistry (A. Laguna, Ed.) Wiley-VCH, **2008**, pp 1-63. ISBN 978-3-527-32029-5
161. **Coordination behaviour of gold and silver towards pyrazoles ligands**
O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, M. Naranjo and M. D. Villacampa
Eur. J. Inorg. Chem. **2008**, 5408–5417.
162. **Unexpeted formation of ferrocene containing indolizines by tandem cyclization-activation reactions induced by silver salts**
J. Aguado, C. Cativiela, M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca
Eur. J. Inorg. Chem. **2009**, 216–219.
163. **Unusual coordination behaviour of the ferrocenyl-terpyridine ligand with group 11 complexes**
J. Aguado, M. C. Gimeno, P. G. Jones and A. Laguna
Can. J. Chem. **2009**, *87*, 341–347.
164. **Carboranyl C-s bonded and C-functionalized carboranes as ligands in gold and silver chemistry**
O. Crespo, M. C. Gimeno and A. Laguna
J. Organomet. Chem. **2009**, *694*, 1588–1598.
165. **Gold complexes with the selenolate ligand $[2\text{-}(\text{MeNCH})\text{CHSe}]$**
O. Crespo, M. C. Gimeno, A. Laguna, M. Kulcsar and C. Silvestru
Inorg. Chem. **2009**, *48*, 4134–4142.
166. **Organometallic complexes of carborane. Theoretical comparative analysis of ortho, meta, and para derivatives and luminescence studies**
O. Crespo, M. C. Gimeno, A. Laguna, I. Ospino, G. Aullón and J. M. Oliva
Dalton Trans. **2009**, 3807–3813.
167. **Luminescent silver(I) and copper(I) systems containing pyridyl phosphine bridges**
O. Crespo, M. C. Gimeno, A. Laguna and C. Larraz
Z. Naturforsch. **2009**, *64b*, 1525–1534.

168. Los colores del oro

M. C. Gimeno and A. Laguna
Naturaleza Aragonesa **2009**, *23*, 75–81.

169. Group 11 complexes with the 1,1'-bis[*N,N'*-(2-(diphenylphosphino)amide] ferrocene ligand

J. E. Aguado, M. C. Gimeno, A. Laguna and M. D. Villacampa
Gold Bull. **2009**, *42*, 302–309.

170. New gold(I) and silver(I) complexes with organophosphorus ligands with SPNSO skeleton. Crystal and molecular structures of monomeric [Au{(SPPH₂)(O₂SR)N}(PPh₃)] (R = Me, C₆H₄Me-4) and dimeric [Ag{(SPPH₂)(O₂SPh)N}(PPh₃)₂].2CH₂Cl₂

A. Pöllnitz, A. Silvestru, M. C. Gimeno and A. Laguna
Inorg. Chim. Acta **2009**, *363*, 346–352.

171. Silver(I) and copper(I) complexes with ferrocenyl ligands bearing imidazole or pyridyl substituents.

S. Quintal, M. C. Gimeno, A. Laguna and M. J. Calhorda
J. Organomet. Chem. **2010**, *695*, 558–566.

172. The lowest excited state of brightly emitting gold(I) triphosphine complexes

R. Czerwieniec, T. Holbeck, O. Crespo, A. Laguna and M.C. Gimeno
Inorg. Chem. **2010**, *49*, 3764–3767.

173. Coordination properties of the 1,1'-bis[(6-methyl)-2-pyridyl]amido]ferrocene ligand towards group 11 complexes

J. E. Aguado, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa
Dalton Trans. **2010**, *39*, 4321–4330.

174. Heteropolynuclear gold complexes with metallophilic interactions: Modulation of the luminescence properties

M. J. Calhorda, C. Ceamanos, O. Crespo, M.C. Gimeno, A. Laguna, C. Larráz, P. D. Vaz and M. D. Villacampa
Inorg. Chem. **2010**, *49*, 8255–8269.

175. Synthesis, structure and bactericide activity of (aminophosphane)gold(I) thiolate complexes

M. F. Fillat, M. C. Gimeno, A. Laguna, E. Latorre, L. Ortego and M.D. Villacampa
Eur. J. Inorg. Chem. **2011**, 1487–1495.

176. Homopolynuclear TII and heteropolynuclear AuI–TII complexes with organodisilone ligands: activation of luminescence by intermetallic interactions

M. Arca, T. Aroz, M. C. Gimeno, M. Kulcsar, A. Laguna, T. Lasanta, V. Lippolis, J. M. López-de-Luzuriaga, M. Monge and M. E. Olmos
Eur. J. Inorg. Chem. **2011**, 2288–2297.

177. Group 11 complexes with imidazoline-2-thione or selone derivatives

M. T. Aroz, M. C. Gimeno, M. Kulcsar, A. Laguna and V. Lippolis
Eur. J. Inorg. Chem. **2011**, 2884–2894.

178. Unprecedented luminescent heteropolynuclear aggregates with gold thiolates as building blocks

O. Crespo, M. C. Gimeno, A. Laguna, F.J. Lahoz and C. Larráz
Inorg. Chem. **2011**, *50*, 9533–9544.

179. Conjugates of ferrocene with biological compounds. Coordination to gold complexes and antitumoral properties

M. C. Gimeno, H. Goitia, A. Laguna, M. E. Luque, M. D. Villacampa, C. Sepúlveda and M. Meireles
J. Inorg. Biochem. **2011**, *105*, 1373–1382.

180. Highly emissive dinuclear complexes $[Au_2\{\mu-(PPh_2)_2C_2B_9H_{10}\}(C_6F_5)(PR_3)]$ with different gold fragments coordinated to an anionic diphosphine

O. Crespo, C. Díez-Gil, M. C. Gimeno, A. Laguna, Miguel Monge and I. Ospino
Dalton Trans. **2011**, *40*, 10038–10046.

181. Metales en medicina

A. Laguna and M.C. Gimeno
ConCiencias **2011**, *8*, 16–31.

182. New group 11 complexes with metal-selenium bonds of methyldiphenylphosphane selenide: a solid state, solution and theoretical investigation

A. Pop, A. Silvestru, M.C. Gimeno, A. Laguna, M. Kulcsar, M. Arca, V. Lippolis and A. Pintus
Dalton Trans. **2011**, *40*, 12479–12490.

183. Luminescent homo- and heteropolynuclear gold complexes stabilized by a unique acetylide fragment

M. C. Blanco, J. Cámara, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López-de-Luzuriaga, M. E. Olmos and M. D. Villacampa
Organometallics **2012**, *31*, 2597–2605.

184. Heterometallic complexes with the mono and disubstituted [(4-pyridylamino)carbonyl]ferrocene ligands

C. Ceamanos, M. C. Gimeno, M. N. Jayaswal and A. Laguna
J. Organomet. Chem. **2012**, *713*, 169–177.

185. Facile synthesis of gold(III) aryl–carbene metallacycles

O. Crespo, M. C. Gimeno, A. Laguna, S. Montanel-Pérez and M. D. Villacampa
Organometallics **2012**, *31*, 5520–5526.

186. Synthesis of gold–silver luminescent honeycomb aggregates by both solvent-based and solvent-free methods

C. Blanco, J. Cámara, M. C. Gimeno, A. Laguna, S. L. James, M. C. Lagunas and M. D. Villacampa
Angew. Chem. Int. Ed. Engl. **2012**, *51*, 9777–9779.

187. Emission tuning in dinuclear gold complexes with diphosphanes containing alkyne and/or oligophenylene spacers

J. Cámara, O. Crespo, M. C. Gimeno, I. O. Koshevoy, A. Laguna, I. Ospino, E. S. Smirnovac and S. P. Tunik
Dalton Trans. **2012**, *41*, 13891–13898.

188. Bioconjugated rhenium(I) complexes with amino acid derivatives: synthesis, photophysical properties, and cell imaging studies

V. Fernández-Moreira, M. L. Ortego, C. F. Williams, M. P. Coogan, M. D. Villacampa and M.C. Gimeno
Organometallics **2012**, *31*, 5950–5957.

189. N-Heterocyclic carbene coinage metal complexes as intense blue-green emitters

M. C. Gimeno, A. Laguna and R. Visbal
Organometallics **2012**, *31*, 7146–7157.

190. N-Heterocyclic carbene ligands as modulators of luminescence in three-coordinate gold(I) complexes with spectacular quantum yields

R. Visbal, I. Ospino, J. M. López de Luzuriaga, A. Laguna and M. C. Gimeno
J. Am. Chem. Soc. **2013**, *135*, 4712–4715.

191. Influence of the group 11 metal on the emissive properties of complexes $[M\{(PR_2)_2C_2B_9H_{10}\}L]$

O. Crespo, C. Díez-Gil, M. C. Gimeno, P. G. Jones, A. Laguna, I. Ospino, J. Tapias, M. D. Villacampa and R. Visbal.
Dalton Trans. **2013**, *42*, 8298–8306.

192. Simple and efficient synthesis of $[MCl(NHC)]$ (M = Au, Ag) complexes

R. Visbal, A. Laguna and M.C. Gimeno
Chem. Commun. **2013**, *49*, 5642–5644.

Highlighted in *Chem. Commun. Blog*, 24 June 2013

193. Synthesis of new gold(I) thiolates containing amino acid moieties with potential biological interest

A. Gutiérrez, J. Bernal, M. D. Villacampa, C. Catiuela, A. Laguna and M. C. Gimeno
Inorg. Chem. **2013**, *52*, 6472–6480.

194. Diselenolate- and ditelluroate-carborane gold complexes

O. Crespo, M. C. Gimeno, A. Ilie, A. Laguna, I. Ospino and C. Silvestru
Dalton Trans. **2013**, *42*, 10454–10459.

195. Antitumoral gold and silver complexes with ferrocenyl-amide phosphines

H. Goitia, Y. Nieto, M. D. Villacampa, C. Kasper, A. Laguna and M. C. Gimeno
Organometallics **2013**, *32*, 6069–6078.

196. Thiolates, selenolates and tellurolates

M. C. Gimeno

Handbook on Chalcogen Chemistry, New Perspectives in Sulfur, Selenium and Tellurium, 2nd Edition. (F. A. Devillanova, W. W. Du Mont, Ed.) Royal Society of Chemistry, **2013**, pp 37–65.

197. Strong inhibition of thioredoxin reductase by highly cytotoxic gold(I) complexes. DNA binding studies

L. Ortego, F. Cardoso, S. Martins, M. F. Fillat, A. Laguna, M. Meireles, M. D. Villacampa and M. C. Gimeno
J. Inorg. Chem. **2014**, *32*, 32–37.

198. Three-coordinate gold(I) N-heterocyclic carbene complexes: a new class of strongly luminescent derivatives

R. Visbal, J. M. Lopez de Luzuriaga, A. Laguna, M.C. Gimeno
Dalton Trans. **2014**, *43*, 328–334.

199. Different emissive properties in dithiolate gold(I) complexes as a function of the presence of phenylene spacers

F. M. Monzittu, V. Fernández-Moreira, V. Lippolis, M. Arca, A. Laguna and M. C. Gimeno
Dalton Trans. **2014**, *43*, 6212–6220.

200. HIV-1 inhibiting capacity of novel forms of presentation of GB virus C peptide domains is enhanced by coordination to gold compounds

M. J. Gómara, R. Galatola, A. Gutierrez, M.C. Gimeno, J. M. Gatell, V. Sánchez-Merino, E. Yuste and I. Haro
Current Med. Chem. **2014**, *21*, 238–250.

201. Coordination studies of the ferrocenyl phosphine selenide ligand $FcCON(CH_2CH_2PPh_2Se)_2$

S. Canales, M. D. Villacampa, A. Laguna and M. C. Gimeno
J. Organomet. Chem. **2014**, *760*, 84–88.

202. N-Heterocyclic carbene metal complexes: photoluminescence and applications

R. Visbal and M. C. Gimeno
Chem. Soc. Rev. **2014**, *43*, 3551–3574.

203. Structural and photophysical study of heterobimetallic complexes with d⁸-d¹⁰ interactions supported by carborane ligands. Theoretical analysis of the emissive behaviour

O. Crespo, M. C. Gimeno, A. Laguna, O. Lehtonen, I. Ospino, P. Pyykkö and M. D. Villacampa
Chem. Eur. J. **2014**, *20*, 3120–3127.

204. A comparative study of structural patterns and luminescent properties of silver-DAFO complexes with carborane- versus classical diphosphanes

O. Crespo, M.C. Gimeno, A. Laguna, R. Marriott, J. M. Sáez-Rocher and M. D. Villacampa
Dalton Trans. **2014**, *43*, 12214–12220.

205. Luminescent gold and silver complexes with the monophosphane 1-(PPh₂)-2-Me-C₂B₁₀H₁₀ and their conversion to gold micro- and superstructured materials

O. Crespo, C. Díaz, C. O'Dwyer, M. C. Gimeno, A. Laguna, I. Ospino and M. L. Valenzuela
Inorg. Chem. **2014**, *20*, 7260–7269.

206. Gold thione complexes

F. Caddeo, V. Fernández-Moreira, M. Arca, A. Laguna, V. Lippolis and M. C. Gimeno
Inorganics **2014**, *2*, 424–432.

207. Luminescent Re(I) and Re(I)/Au(I) complexes as cooperative partners in cell imaging and cancer therapy

V. Fernández-Moreira, I. Marzo and M. C. Gimeno
Chem. Sci. **2014**, *5*, 4434–4446.

208. Axially chiral allenyl gold complexes

A. Johnson, A. Laguna and M. C. Gimeno
J. Am. Chem. Soc. **2014**, *136*, 12812–12815.

209. A new approach for the synthesis of bisindoles through AgOTf as catalyst

J. Beltrá, M. C. Gimeno and R. P. Herrera
Beilstein J. Org. Chem. **2014**, *10*, 2206–2214.

210. Gold(I) thiolates containing amino acid moieties. Cytotoxicity and structure-activity relationship

A. Gutiérrez, L. Gracia-Fleita, I. Marzo, C. Cativiela, A. Laguna and M. C. Gimeno
Dalton Trans. **2014**, *43*, 17054–17066.

211. The fluxional amine gold(III) complex as an excellent catalyst and precursor of biologically active acyclic carbenes

S. Montanel-Perez, R. P. Herrera, A. Laguna, M. D. Villacampa and M. C. Gimeno
Dalton Trans. **2015**, *44*, 9052–9062.

212. (Aminophosphane)gold(I) and silver(I) complexes as antibacterial agents

L. Ortego, A. Laguna, J. Gonzalo-Asensio, M. D. Villacampa and M. C. Gimeno
J. Inorg. Biochem. **2015**, *46*, 19–27.

213. 1,4-Bis(2'-pyridylethynyl)benzene as a ligand in heteronuclear gold-thallium complexes. Influence of the ancillary ligands on their optical properties

M. Arca, R. Donamaria, M. C. Gimeno, V. Lippolis, J. M. Lopez-de-Luzuriaga, E. Manso, M. Monge and M. E. Olmos
Dalton Trans. **2015**, *44*, 6719–6730.

214. Highly cytotoxic bioconjugated gold(I) complexes with cysteine-containing dipeptides

A. Gutiérrez, I. Marzo, C. Cativiela, A. Laguna and M. C. Gimeno
Chem. Eur. J. **2015**, *21*, 11088–11095.

215. Re(I) derivatives functionalised with thioether crowns containing the 1,10-phenanthroline subunits as a new class of chemosensors

A. Casula, V. Nairi, V. Fernández-Moreira, Antonio Laguna, V. Lippolis, A. Garau and M. C. Gimeno
Dalton Trans. **2015**, *44*, 18506–18517.

216. Synthesis, photochemical, and redox properties of gold(I) and gold(III) pincer complexes incorporating a 2,2':6',2''-terpyridine ligand framework

M. C. Gimeno, J. M. López-de-Luzuriaga, E. Manso, M. Monge, M. E. Olmos, M. Rodríguez-Castillo, M.-T. Tena, D. P. Day, E. J. Lawrence, and G. G. Wildgoose
Inorg Chem. **2015**, *54*, 10667–10677.

217. Group 11 complexes with amino acid derivatives: Synthesis and antitumoral studies

L. Ortego, M. Meireles, C. Kasper, A. Laguna, M. D. Villacampa and M. C. Gimeno
J. Inorg. Biochem. **2016**, *156*, 133–144.

218. Synthesis of luminescent squaramide monoesters: Cytotoxicity and cell imaging studies in HeLa cells

V. Fernández-Moreira, J. V. Alegre-Requena, R. P. Herrera, I. Marzo and M. C. Gimeno
RSC Adv. **2016**, *6*, 14171–14177.

219. Highly efficient catalysis of retro Claisen reactions: From a quinone derivative to functionalized imidazolium salts

R. Visbal, A. Laguna and M. C. Gimeno
Chem. Eur. J. **2016**, *22*, 4189–4195.

220. Tuning the energy emission from violet to yellow with bidentate phosphine gold(III) complexes

V. Fernández-Moreira, J. Cámara, E. S. Smirnova, I. O. Koshevoy, A. Laguna, S. P. Tunik, M. C. Blanco and M. C. Gimeno
Organometallics **2016**, *35*, 1141–1150.

221. An efficient and sustainable synthesis of NHC gold complexes

A. Johnson and M. C. Gimeno
Chem. Commun. **2016**, *52*, 9964–9967.

222. Bioactive gold(I) complexes with 4-mercaptoproline derivatives

A. Gutiérrez, C. Cativiela, A. Laguna and M. C. Gimeno
Dalton Trans. **2016**, *45*, 13483–13490.

223. Hydrogen Bonding Networks in Chiral Thiourea Organocatalysts: Evidence on the Importance of the Aminoindanol Moiety

R. P. Herrera and M. C. Gimeno

Cryst. Growth. Des. **2016**, *16*, 5091–5099.

224. Cytotoxicity and biodistribution studies of luminescent Au(I) and Ag(I) N-heterocyclic carbenes. Searching for new biological targets

R. Visbal, V. Fernández-Moreira, I. Marzo, A. Laguna and M. C. Gimeno
Dalton Trans. **2016**, *45*, 15026–15033.

225. Tuning the Luminescent Properties of a Ag/Au Tetranuclear Complex Featuring Metallophilic Interactions via Solvent-Dependent Structural Isomerization

R. Donamaria, M. C. Gimeno, V. Lippolis, J. M. López-de-Luzuriaga, M. Monge and M. E. Olmos
Inorg. Chem. **2016**, *55*, 11299–11310.

226. Luminescent Thermochromism of 2D Coordination Polymers Based on Copper(I) Halides with 4-Hydroxythiophenol.

J. Troyano, J. Perles, P. Amo-Ochoa, J. I. Martínez, M. C. Gimeno, V. Fernández-Moreira, F. Zamora and S. Delgado

Chem. Eur. J. **2016**, *22*, 18027–18035.

Hot Paper

227. Synergistic catalysis: Asymmetric synthesis of cyclopentanes bearing 4 stereogenic centers

K. Zhang, M. Meazza, A. Izaga, C. Contamine, M. C. Gimeno, R. P. Herrera and R. Rios
Synthesis **2017**, *49*, 167–174.

228. Group 11 Metal Complexes with Unsymmetrical Bifunctional Ferrocene Ligands.

Y.-J. Shi, A. Laguna, M. D. Villacampa and M. C. Gimeno

Eur. J. Inorg. Chem. **2017**, 247–255.

Very Important Paper and Cover Profile

229. Polynuclear cage-like Au(I) phosphane complexes based on S²⁻ template: observation of multiple luminescence in coordinated polyaromatic systems

J. R. Shakirova, E. V. Grachova, V. V. Sizov, G. L. Starova, I. O. Koshevoy, A. S. Melnikov, M. C. Gimeno, A. Laguna and S. P. Tunik

Dalton Trans. **2017**, *46*, 2516–2523.

230. Gold(I) mediated thiourea organocatalyst activation: A synergic effect for asymmetric catalysis.

A. Izaga, R. P. Herrera and M. C. Gimeno

ChemCatChem. **2017**, *9*, 1313–1321.

231. Synthesis of Propargyl-Functionalized NHC Gold Complexes

A. Johnson and M. C. Gimeno

Organometallics **2017**, *36*, 1278–1286.

232. Asymmetric Organocatalytic Synthesis of Substituted Chiral 1,4-Dihydropyridine Derivatives

F. Auria-Luna, E. Marqués-López, M. C. Gimeno, R. Heiran, S. Mohammadi and R. P. Herrera

J. Org. Chem. **2017**, *82*, 5516–5523.

233. A stable gold(I)–enyne species obtained by alkyne carboauration in a complex rearrangement

J. Cámara, M. C. Blanco, A. Laguna, P. Naumov and M. C. Gimeno

Chem. Commun. **2017**, *53*, 9202–9205.

Cover Invitation

234. **Highly active group 11 metal complexes with α -hydrazidophosphonate ligands**
D. Salvador-Gil, L. Ortego, R. P. Herrera, I. Marzo and M. C. Gimeno
Dalton Trans. **2017**, 46, 13745–13755.
235. **(N,Se) and (Se,N,Se) Ligands Based on Carborane and Pyridine Fragments – Reactivity of 2,6-[(1'-Me-1',2'-closo-C₂B₁₀H₁₀)SeCH₂]₂C₅H₃N towards Copper and Silver**
A. Ilie, O. Crespo, M. C. Gimeno, M. Holthausen, A. Laguna, M. Diefenbach and C. Silvestru
Eur. J. Inorg. Chem. **2017**, 2643–2652.
236. **Tailor-Made Luminescent Polymers through Unusual Metallophilic Interaction Arrays Au...Au...Ag...Ag**
M. Gil-Moles, M. C. Gimeno, J. M. López-De-Luzuriaga, M. Monge, M. E. Olmos and D. Pascual
Inorg. Chem. **2017**, 56, 9281–9290.
237. **Trackable Metallodrugs Combining Luminescent Re(I) and Bioactive Au(I) Fragments**
A. Luengo, V. Fernández-Moreira, I. Marzo and M. C. Gimeno
Inorg. Chem. **2017**, 56, 15159–15170.
238. **Gold(I), phosphanes and alkynyls: the perfect allies to search luminescent derivatives**
A. Luengo A, V. Fernández-Moreira, I. Marzo and M. C. Gimeno
Eur. J. Inorg. Chem. **2018**, 2762–2767.
239. **Heterobimetallic Complexes for Theranostic Applications**
V. Fernández-Moreira and M. C. Gimeno
Chem. Eur. J. **2018**, 24, 3345–3353.
Frontispiece Invitation
240. **Tetra-Au(I) Complexes Bearing a Pyrene Tetraalkynyl Connector Behave as Fluorescence Torches**
A. Gutiérrez-Blanco, V. Fernández-Moreira, M. C. Gimeno, E. Peris and M. Poyatos
Organometallics **2018**, 37, 1795–1800.
241. **Bioactive gold and silver complexes with thiophene-conjugated amino acid esters**
H. Goitia, A. Laguna and M. C. Gimeno
Inorg. Chim. Acta **2018**, 24, 53–58.
242. **Ylide Ligands as Building Blocks for Bioactive Group 11 Metal Complexes**
A. Johnson, I. Marzo and M. C. Gimeno
Chem. Eur. J. **2018**, 24, 11693–11702.
243. **Proteasome versus Thioredoxin Reductase Competition as Possible Biological Targets in Antitumor Mixed Thiolate-Dithiocarbamate Gold(III) Complexes**
J. Quero, S. Cabello, T. Fuertes, I. Mármol, R. Laplaza, V. Polo, M. C. Gimeno, M. J. Rodríguez-Yoldi and E. Cerrada
Inorg. Chem. **2018**, 57, 10832–10845.
244. **Efficient Gold(I) Acyclic Diaminocarbenes for the Synthesis of Propargylamines and Indolizines**
M. Aliaga-Lavrijsen, R. P. Herrera, D. Villacampa and M. C. Gimeno
ACS Omega **2018**, 3, 9805–9813.
245. **Gold Catalyzed Multicomponent Reactions beyond A³ Coupling**
R. Visbal, S. Graus, R. P. Herrera and M. C. Gimeno

Molecules **2018**, *23*, 2255.

246. Synthesis of Gold(III) Complexes with Bidentate Amino-Thiolate Ligands as Precursors of Novel Bifunctional Acyclic Diaminocarbenes

S. Montanel-Perez, A. Izaga, A. Laguna, M. D. Villacampa and M. C. Gimeno
ACS Omega **2018**, *3*, 13097–13103.

247. Bioactive Heterobimetallic Re(I)/Au(I) Complexes Containing Bidentate N-Heterocyclic Carbenes

A. Luengo, V. Fernández-Moreira, I. Marzo and M. C. Gimeno
Organometallics **2018**, *37*, 3993–4001.

248. Temperature-assisted formation of reversible metallophilic Au–Ag interaction arrays

M. Gil-Moles, M. C. Gimeno, J. M. López-de-Luzuriaga, M. Monge and M. E. Olmos
Dalton Trans. **2019**, *48*, 5149–5155.

249. Gold and platinum alkynyl complexes for biomedical applications

E. Cerrada, V. Fernández-Moreira and M. C. Gimeno
Adv. Organomet. Chem. **2019**, *71*, 227–257.

250. Silver (I) and Copper(I) Complexes with a Schiff Base Derived from 2-Aminofluorene with Promising Antibacterial Activity

O. Cifuentes-Vaca, J. Andrades-Lagos, J. Campanini-Salinas, A. Laguna, D. Vázquez-Velásquez and M. C. Gimeno
Inorg.Chim. Acta **2019**, *489*, 275–279.

251. Recent Advances in Gold- NHC Complexes with Biological Properties

M. Mora, M. C. Gimeno and R. Visbal
Chem. Soc. Rev. **2019**, *48*, 447–462.

252. Citotoxic Gold(I) Complexes with Amidophosphine Ligands Containing Thiophene Moieties

H. Goitia, M. Dolores Villacampa, A. Laguna and M. C. Gimeno
Inorganics **2019**, *7*, 13.

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253. Bioactive and Luminescent Indole and Isatin Based Gold(I) Derivatives

V. Fernández-Moreira, Cynthia Val-Campillo, I. Ospino, R. P. Herrera, A. Laguna, I. Marzo and M. C. Gimeno
Dalton Trans. **2019**, *48*, 3098-3108.

254. Anticancer Properties of Gold Complexes with Biologically Relevant Ligands

V. Fernández-Moreira, R. P. Herrera and M. C. Gimeno
Pure Appl. Chem. **2019**, *91*, 247–269.

255. First aromatic amine organocatalysed activation of α,β -unsaturated ketones

I. G. Sonsona, E. Marqués-López, M. C. Gimeno, and R. P. Herrera
New J. Chem. **2019**, *43*, 12233–12240. **open access**

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256. Synthesis of Bioactive N-Acyclic Gold(I) and Gold(III) Diamino Carbenes with Different Ancillary Ligands

S. Montanel-Perez, R. Elizalde, A. Laguna, M. D. Villacampa and M. C. Gimeno
Eur. J. Inorg. Chem. **2019**, 4273–4281.

257. Alkynyl Gold(I) complexes derived from 3-hydroxyflavones as multi-targeted drugs against colon cancer

I. Mármol, P. Castellnou, R. Alvarez, M. C. Gimeno, M. J. Rodríguez-Yoldi and E. Cerrada
Eur. J. Med. Chem. **2019**, *183*, 111661.

258. Thiolate Bridged Gold(I)–NHC Catalysts: New Approach for Catalyst Design and its Application to Trapping Catalytic Intermediates

R. Visbal, R. P. Herrera and M. C. Gimeno
Chem. Eur. J. **2019**, *25*, 15837–15848.
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259. Hydrogen Bonding and Internal or External Lewis or Brønsted Acid Assisted (Thio)urea Catalysts

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Eur. J. Org. Chem. **2020**, 1057–1068.
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Chem. Eur. J. **2020**, *26*, 5469-5478.

261. Asymmetric Fluorination Reactions Promoted by Chiral Hydrogen-Bonding-Based Organocatalysts

F. Auria-Luna, S. Mohammadi, M. Divar, M. C. Gimeno and R. P. Herrera
Adv. Synth. Catal. **2020**, *362*, 5275-5300.
VIP (Very Important Publication)

262. Luminescent Re(I)/Au(I) Species As Selective Anticancer Agents for HeLa Cells

A. Luengo, M. Redrado, I. Marzo, V. Fernández-Moreira and M. C. Gimeno
Inorg. Chem. **2020**, *59*, 13, 8960–8970.
Cover Invitation

263. Luminescent Bimetallic Ir(III)/Au(I) Peptide Bioconjugates as Potential Theranostic Agents

A. Luengo, I. Marzo, M. Reback, I. M Daubit, V. Fernández-Moreira, N. Metzler-Nolte and M. C. Gimeno
Chem. Eur. J. **2020**, *26*, 12158-12167.
Cover Invitation

264. Ultrasound-assisted multicomponent synthesis of 4H-pyrans in water and DNA binding studies

F. Auria-Luna, V. Fernández-Moreira, E. Marqués-López, M. C. Gimeno and R. P. Herrera
Sci. Rep. **2020**, *10*, 1-17. N° 11594

265. Heterobimetallic propargyl gold complexes with π -bound copper or silver with enhanced anticancer activity

A. Johnson and M. C. Gimeno
Dalton Trans. **2020**, *49*, 11736-11742.

266. Ydiide Ligands as Building Blocks for Polynuclear Coinage Metal Complexes: Metal Squares, Triangles and Chains

A. Johnson and M. C. Gimeno
Chem. Eur. J. **2020**, *26*, 11256-11265.

267. Novel ureido-dihydropyridine scaffolds as theranostic agents

F. Auria-Luna, E. Marqués-López, E. Romanos, V. Fernández-Moreira, M. C. Gimeno, I. Marzo and R. P. Herrera
Bioorg. Chem. **2020**, *105*, 1404364.

268. Gold(I) and Silver(I) Complexes with 2-Anilinopyridine-Based Heterocycles as Multitarget Drugs against Colon Cancer

I. Mármol, S. Montanel-Perez, J. Carlos Royo, M. C. Gimeno, M. D. Villacampa, M. J. Rodríguez-Yoldi and E. Cerrada
Inorg. Chem. **2020**, *59*, 17732–17745.

269. Tunable from Blue to Red Emissive Composites and Solids of Silver Diphosphane Systems with Higher Quantum Yields than the Diphosphane Ligands

M. Calvo, O. Crespo, M. C. Gimeno, A. Laguna, M. T. Oliván, V. Polo, D. Rodríguez and J.-M. Sáez-Rocher
Inorg. Chem. **2020**, *59*, 14447-14456.

270. Structural and electronic properties in asymmetric binuclear Zn(II) amphiphilic compounds.

S. Realista; B. Oliveira; J. Aldeidas; V. Fernández Moreira; M. C. Gimeno; A. S. Viana; M. J. Calhorda; P. N. Martinho
J. Coord. Chem. **2020**, *74*, 634–652.

271. Theranostics through the synergistic cooperation of heterometallic complexes

M. Redrado, V. Fernández-Moreira and M. C. Gimeno

ChemMedChem **2021**, *16*, 932-941.

272. Main Avenues in Gold Coordination Chemistry

R. P. Herrera and M. C. Gimeno

Chem. Rev. **2021**, <https://doi.org/10.1021/acs.chemrev.0c00930>

Patents

Inventors: R. Czerwieniec, H. Yersin, U. Monkowius, Thomas Hofbeck, A. Laguna, O. Crespo, M. C. Gimeno
Title: Verwendung von Gold-Komplexen in opto-elektronischen Vorrichtungen

Application number: DE-10 2010 007 825 5 Priority Country: Germany Priority Date: 2010
Entity holding: Universidad de Regensburg
Exploiting by: Licenciante and exploited (Cynora)

Inventors: R. Czerwieniec, H. Yersin, U. Monkowius, Thomas Hofbeck, A. Laguna, O. Crespo, M. C. Gimeno
Title: Verwendung von Gold-Komplexen in opto-elektronischen Vorrichtungen

Application number: EP2534711H1 Priority Country: European Priority Date: 2011
Entity holding: Universidad de Regensburg
Exploiting by: Licenciante and exploited (Cynora)

Inventors: R. Czerwieniec, H. Yersin, U. Monkowius, Thomas Hofbeck, A. Laguna, O. Crespo, M. C. Gimeno
Title: Gold complexes for opto-electronic devices

Application number: US20130066092 Priority Country: Worldwide Priority Date: 2012
Entity holding: Universidad de Regensburg
Countries that has spread: Extension rest of the World
Exploiting by: Licenciante and exploited (Cynora)

Stays in International and Prestigious Centers

Center: Department of Inorganic Chemistry, University of Bristol
Location: Bristol Country: United Kingdom Date: 1988-1989 Time: 52 weeks
Topic: Polynuclear derivatives with carbene and carbene ligands
Type: Post-doc

Center: Anorganische Chemie. Technische Universität Braunschweig
Location: Braunschweig Country: Germany Date: June 1991 Time: 15 weeks
Topic: Study using X-ray diffraction of organometallic gold clusters
Type: Invited Professor

Center: Anorganische Chemie. Technische Universität Braunschweig
Location: Braunschweig Country: Germany Date: June 1992 Time: 5 weeks
Topic: Study using X-ray diffraction of polynuclear gold and silver compounds
Type: Invited Professor

Center: Anorganische Chemie. Technische Universität Braunschweig
Location: Braunschweig Country: Germany Date: June 1993 Time: 5 weeks
Topic: Study using X-ray diffraction of polynuclear gold and silver compounds
Type: Invited Professor

Center: Anorganische Chemie. Technische Universität Braunschweig
Location: Braunschweig Country: Germany Date: June 1994 Time: 5 weeks
Topic: X-ray diffraction study of short Au···Au contacts.
Type: Invited Professor

Conference Contribution

1. Authors: R. Usón, A. Laguna, M. Laguna, A. Usón, M. C. Gimeno and E. J. Fernández

Title: Iluro-, metanuro- e imidofosfinato-complejos de metales del grupo Ib

Type of participation: Poster

Congress: **V Reunión del Grupo Especializado de Química Organometálica**

Place: Jaca (Huesca)

Date: 1985

2. Authors: R. Usón, A. Laguna, M. Laguna, I. Lázaro, B. N. Fraile, M.C. Gimeno, P. G. Jones and C. Freire

Title: Four-, five- or eight-membered methanide auracicles

Type of participation: Poster

Congress: **7th FECHM Conference on Organometallic Chemistry**

Place: Toledo

Date: August 1987

3. Authors: R. Usón, A. Laguna, M. Laguna, E.J. Fernández, M.C. Gimeno and J. Jiménez

Title: Mono- and polinuclear perhalophenyl complexes of silver and gold

Type of participation: Poster

Congress: **First Hispano-Italian Colloquium. New Frontiers in Inorganic Chemistry(I). Organometallic Chemistry and Catalysis**

Place: Peñíscola

Date: September 1988

4. Authors: R. Usón, A. Laguna, M. Laguna, J. Jiménez, M.C. Gimeno, A. Gomá and P.G. Jones

Title: Polinuclear gold complexes

Type of participation: Poster

Congress: **Italian-Portuguese-Spanish Meeting in Inorganic Chemistry**

Place: Gandía (Valencia)

Date: June 1990

5. Authors: R. Usón, A. Laguna, M. Laguna and J. Jiménez

Title: Pentafluorofenil y trifluorofenil complejos polinucleares de oro y plata

Type of participation: Poster

Congress: **IX Reunión Anual de Química Organometálica**

Place: Oviedo

Date: September 1989

6. Authors: R. Usón, A. Laguna, M. Laguna, J. Jiménez, M. C. Gimeno, A. Gomá and P.G. Jones

Title: Polinuclear gold complexes

Type of participation: Poster

Congress: **Italian-Portuguese-Spanish Meeting in Inorganic Chemistry**

Place: Gandía (Valencia)

Date: June 1990

7. Authors: M. C. Gimeno, A. Laguna, M. Laguna and P. G. Jones

Title: Complejos de oro con carboranos y difosfino-carboranos

Type of participation: Poster

Congress: **XXIII Reunión Bienal de la Real Sociedad Española de Química**

Place: Salamanca

Date: September 1990

8. Authors: A. Laguna, M. Laguna and M. C. Gimeno

Title: Metanuro complejos de oro. Triple desprotonación del ligando [PPh₂CH₂PPh₂CH₂COOMe]ClO₄

Type of participation: Poster

Congress: **XI Reunión Anual del Grupo Especializado de Química Organometálica**

Place: El Escorial (Madrid)

Date: October 1991

9. Authors: A. Laguna, M. Laguna, M.C. Gimeno, O. Crespo, P.G. Jones

Title: Complejos tri- y tetra-coordinados de oro(I) y plata(I) con el ligando bis(difenilfosfino)-o- carborano

Type of participation: Poster

Congress: **XI Reunión Anual del Grupo Especializado de Química Organometálica**

Place: El Escorial (Madrid)

Date: October 1991

10. Authors: E. Cerrada, J. Garín, A. Laguna, M. Laguna, M.C. Gimeno, P.G. Jones

Title: Derivados de oro con tetracianoquinodimetano

Type of participation: Posters

Congress: **XI Reunión Anual del Grupo Especializado de Química Organometálica**

Place: El Escorial (Madrid)

Date: October 1991

11. Authors: R. Usón, A. Laguna, M. C. Gimeno, F. Sanmartín, E. J. Fernández, M. D. Villacampa, J. M. López de Luzuriaga

Title: Acetilacetato trifenilfosfina oro(I) como reactivo desprotonante. Síntesis de metanuro complejos polinucleares de oro

Type of participation: Poster

Congress: **XI Reunión Anual del Grupo Especializado de Química Organometálica**

Place: El Escorial (Madrid)

Date: October 1991

12. Authors: A. Laguna, M. Laguna, M. C. Gimeno, E. Fernández, J. Jiménez, M. Bardají, J. M. López de Luzuriaga and P.G. Jones

Title: Polynuclear derivatives of gold; synthesis, structure and reactivity

Type of participation: Poster

Congress: **International Conference on the Chemistry of the Copper and Zinc Triads**

Place: Edinburgh (Reino Unido)

Date: July 1992

13. Authors: M. Laguna, A. Laguna, J. Garín, E. Cerrada, M.C. Gimeno and P.G. Jones

Title: Charge-transfer salts from organometallic gold(I) and gold(III) complexes

Type of participation: Poster

Congress: **International Conference on the Chemistry of the Copper and Zinc Triads**

Place: Edinburgh (Reino Unido)

Date: July 1992

14. Authors: P. Alonso, E. Cerrada, J. Garín, M.C. Gimeno, P.G. Jones, A. Laguna and M. Laguna

Title: Bis(phosphine)gold(I) derivatives with 7,7',8,8'-tetracyanoquinodimethane. X-ray structure of Au(PPh₃)₂TCNQ

Type of participation: Poster

Congress: **International Conference on Science and Technology of Synthetic Metals**

Place: Göteborg (Suecia)

Date: August 1992

15. Authors: M. C. Gimeno, J. Jiménez, P.G. Jones, A. Laguna and M. Laguna

Title: Novel tetranuclear complexes with two gold-gold bonds

Type of participation: Poster

Congress: **Xth FEChem Conference on Organometallic Chemistry**

Place: Agia Pelagia (Creta, Grecia)

Date: September 1993

16. Authors: O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, C. Sarroca and M.D. Villacampa

Title: Trigonal and tetrahedral silver(I) complexes with different bidentate or tetradentate phosphine ligands

Type of participation: Poster

Congress: **Latin American Inorganic Chemistry Meeting**

Place: Santiago de Compostela

Date: September 1993

17. Authors: M. Bardají, M. C. Gimeno, P.G. Jones, A. Laguna and M. Laguna

Title: Dinuclear asymmetrical bridged gold(I) and gold(II) complexes

Type of participation: Poster

Congress: **Latin American Inorganic Chemistry Meeting**

Place: Santiago de Compostela

Date: September 1993

18. Authors: E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna, J. M. López de Luzuriaga and M. E. Olmos

Title: Tris(diphenylphosphino)methane or methanide polynuclear complexes of gold, chromium, molybdenum and tungsten

Type of participation: Poster

Congress: **Latin American Inorganic Chemistry Meeting**

Place: Santiago de Compostela

Date: September 1993

19. Authors: M. Contel, J. Garrido, M.C. Gimeno, J. Jiménez, P.G. Jones, A. Laguna, M. Laguna and R. Terroba

Title: Homo- and heteropolynuclear gold and silver complexes

Type of participation: Poster

Congress: **ESF Network "Metal Clusters". Workshop on Clusters Reactions and Catalysis**

Place: Salou (Tarragona)

Date: May 1994

20. Authors: F. Canales, M.C. Gimeno, P.G. Jones and A. Laguna

Title: Synthesis of clusters [S(AuPR₃)_n]⁽ⁿ⁻²⁾⁻ (n = 2-6) with a central sulfur atom.

Type of participation: Poster

Congress: **ESF Network "Metal Clusters". Workshop on Clusters Reactions and Catalysis**

Place: Salou (Tarragona)

Date: May 1994

21. Authors: E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna, J. M. López de Luzuriaga, M. E. Olmos and M. D. Villacampa

Title: Heteropolynuclear complexes of gold with tris(diphenylphosphino)methanide or its derivatives as ligands

Type of participation: Poster

Congress: **XVIth International Conference on Organometallic Chemistry**

Place: University of Sussex (Reino Unido)

Date: September 1994

22. Authors: F. Canales, O. Crespo, M.C. Gimeno, P.G. Jones, A. Laguna and C. Sarroca

Title: Synthesis of mono- and poly-nuclear gold complexes with several sulfur donor ligands

Type of participation: Poster

Congress: **XVIth International Conference on Organometallic Chemistry**

Place: University of Sussex (Reino Unido)

Date: September 1994

23. Authors: A. Laguna, M. Laguna and M. C. Gimeno

Title: Complejos polinucleares de oro: Interacciones y enlaces metal-metal

Type of participation: Invited Conference

Congress: **25 Reunión bienal de la Real Sociedad Española de Química**

Place: Vitoria-Gasteiz

Date: September 1994

24. Authors: M. Contel, J. Garrido, M. C. Gimeno, P. G. Jones, J. Jiménez, A. Laguna and M. Laguna

Title: Dérivés polynucléaires d'or et d'argent. Structure cristalline de $[(\text{Mes})\text{Au}(\text{dppm})_2\text{Ag}]\text{ClO}_4$

Type of participation: Poster

Congress: **IV^o Journee Grand Sud-ouest**

Place: Toulouse (Francia)

Date: November 1994

25. Authors: M. Laguna, M. Bardají, M. C. Gimeno, P. G. Jones, A. Laguna, F. Mercán and I. Romeo

Title: Carbon-carbon coupling via nucleophilic addition of methanide gold(I) complexes with cumulenes

Type of participation: Poster

Congress: **Third greek, italian, portuguese, spanish meeting in inorganic chemistry (3rd gips)**

Place: Senigallia (Italia)

Date: June 1995

26. Authors: F. Canales, M. C. Gimeno, P. G. Jones and A. Laguna

Title: Auophilicity at sulfur centers, synthesis and reactivity of $[[\text{S}(\text{Au}_2\text{dppf})] (\text{dppf} = 1,1\text{-bis(diphenylphosphino)-ferrocene})$.

Type of participation: Poster

Congress: **XIth FEChem Conference on Organometallic Chemistry**

Place: Parma (Italia)

Date: September 1995

27. Authors: M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa

Title: Diferentes modos de coordinación de los centros de oro(I) y plata(I) a los ligandos metanuro del tipo $[\text{C}(\text{PPh}_2\text{S})_3]^-$ y $[\text{C}(\text{PPh}_2\text{O})_3]^-$

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Seville

Date: September 1995

28. Authors: O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna

Title: Síntesis de *nido* complejos con la difosfina [7,8-(PPh₂)₂-7,8-C₂B₉H₁₀]⁻. Preparación del metalocaborano [Au₂{7,8-(PPh₂)₂-7,8-C₂B₉H₉}(PPh₃)₂]

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Seville

Date: September 1995

29. Authors: M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca

Title: Síntesis de complejos de plata(I) con el ligando fenildiferrocenil fosfina

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Publicación: Libro de resúmenes

Place: Seville

Date: September 1995

30. Authors: M. Contel, J. Garrido, M.C. Gimeno, P.G. Jones, A. Laguna and M. Laguna

Title: Síntesis, estructura y reactividad del polímero unidimensional [(Au(m-mes)(AsPPh₃))₂Ag]_n

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Seville

Date: September 1995

31. Authors: B. Alvarez, E.J. Fernández, M.C. Gimeno, P.G. Jones, A. Laguna, M. Laguna and J.M. López de Luzuriaga

Title: Síntesis de tris(pentafluorofenil) derivados polinucleares de oro con bis(difenilfosfino)metano, su óxido y su sulfuro

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Sevilla

Date: September 1995

32. Authors: E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, M. Laguna and J. M. López de Luzuriaga

Title: [Au(C₆F₅)₃(PPh₂CH₂PPh₂)] como precursor de nuevos metanuro complejos polinucleares mixtos de oro(I) y oro(III)

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Seville

Date: September 1995

33. Authors: F. Canales, M.C. Gimeno, P.G. Jones and A. Laguna

Title: Complejos polinucleares de oro con sulfuro puente a núcleos metálicos en distintos estados de oxidación

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Seville

Date: September 1995

34. Authors: E.J. Fernández, M.C. Gimeno, P.G. Jones, A. Laguna, M. Laguna and M.E. Olmos
Title: Fosfino y metanuro complejos heteropolinucleares de oro y molibdeno o wolframio con el ligando $(PPh_2CH_2)_3CCH_3$

Type of participation: Poster

Congress: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Seville

Date: September 1995

35. Authors: M.C. Gimeno, P.G. Jones, A. Laguna, C. Sarroca

Title: Síntesis del ligando 1,1'-bis(dietilditiocarbamato)ferroceno y estudio de su reactividad con complejos de oro y plata

Type of participation: Poster

Congres: **XV Reunión del Grupo Especializado de Química Organometálica**

Place: Seville

Date: September 1995

36. Authors: O. Crespo, M. C. Gimeno, P.G. Jones, A. Laguna and M. D. Villacampa

Title: A new synthesis of small gold clusters with carboranes as ligands

Type of participation: Member or the International Advisory Board, Chairman y Poster

Congress: **Progress in the Science and Technology of Gold**

Place: Hanau (Germany)

Date: June 1996

37. Authors: F. Canales, M. C. Gimeno and A. Laguna

Title: Isolobality of H^+ , R^+ and LAu^+ units at sulfur centres: A comparison of the structures $[XS\{Au(C_6F_5)_3\}_2]^-$ ($X = H, C_6F_5, AuPPh_3$)

Type of participation: Member or the International Advisory Board, Chairman y Poster

Congress: **Progress in the Science and Technology of Gold**

Place: Hanau (Germany)

Date: June 1996

38. Authors: M. Contel, J. Garrido, M. C. Gimeno, A. Laguna and M. Laguna

Title: Dinuclear trimethylsilylmethylgold(I) derivatives as a source of heteropolynuclear complexes

Type of participation: Member or the International Advisory Board, Chairman y Poster

Congress: **Progress in the Science and Technology of Gold**

Place: Hanau (Germany)

Date: June 1996

39. Authors: E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga and M. E. Olmos
Title: Strong activation of the double bond of $(SPh)_2C=CH_2$. Novel method of synthesis of methanide complexes

Type of participation: Member or the International Advisory Board, Chairman y Poster

Congress: **Progress in the Science and Technology of Gold**

Place: Hanau (Germany)

Date: June 1996

40. Authors: E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga, M. E. Olmos, M. D. Villacampa

Title: Dithiocarbamategold(I) complexes with $(PPh_2)_2C=CH_2$ and $(PPh_2)_3CH$

Type of participation: Member or the International Advisory Board, Chairman y Poster

Congress: **Progress in the Science and Technology of Gold**

Place: Hanau (Germany)

Date: June 1996

41. Authors: M.J. Calhorda, F. Canales, M.C. Gimeno, J. Jiménez, P.G. Jones, A. Laguna, L.F. Veiros

Title: Theoretical Study of Gold-Gold Interactions in Polynuclear Sulfur-centered Complexes

Type of participation: Poster

Congress: **Síntese, Reactividade e Estrutura em Química Inorgânica. 2ª Conferência de Química Inorgânica. Sociedade Portuguesa de Química**

Place: Fátima (Portugal)

Date: May 1997

42. Authors: E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga, M. Monge and M. E. Olmos

Title: Different coordination behaviour of N,N-dialkyldithiocarbamate toward di- or tri-phosphine gold(I) complexes

Type of participation: Poster

Congress: **XIIth FECHM Conference on Organometallic Chemistry**

Place: Praga (Chequia)

Date: September 1997

43. Authors: M. M. Artigas, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa

Title: Synthesis and characterisation of complexes with the 1-(SH)-1,2-C₂B₁₀H₁₁ ligands

Type of participation: Poster

Congress: **XIIth FECHM Conference on Organometallic Chemistry**

Place: Praga (Chequia)

Date: September 1997

44. Authors: E.M. Barranco, M.C. Gimeno, P.G. Jones, A. Laguna, C. Sarroca, M.D. Villacampa

Title: Synthesis of ligands containing the ferrocene moiety: Reactivity towards gold and silver complexes

Type of participation: Poster

Congress: **XIIth FECHM Conference on Organometallic Chemistry**

Place: Praga (Chequia)

Date: September 1997

45. Authors: O. Crespo, M.C. Gimeno, A. Laguna

Title: Synthesis of monosubstituted and disubstituted *o*-carborane derivatives

Type of participation: Poster

Congress: **EUROBORON. European Conference on Boron Chemistry**

Place: Platja d'Aro (Girona)

Date: September 1997

46. Authors: O. Crespo, M.C. Gimeno, A. Laguna

Title: Synthesis and reactivity of the 1.2-(C₅H₄NS)₂-1,2-C₂B₁₀H₁₀ ligand

Type of participation: Poster

Congress: **EUROBORON. European Conference on Boron Chemistry**

Place: Platja d'Aro (Girona)

Date: September 1997

47. Authors: O. Crespo, M.C. Gimeno, A. Laguna

Title: Reactivity of the carboranyl group [1-SiMe₂^tBu-1,2-C₂B₁₀H₁₀]⁻

Type of participation: Poster

Congress: **EUROBORON. European Conference on Boron Chemistry**

Place: Platja d'Aro (Girona)

Date: September 1997

48. Authors: E.M. Barranco, O. Crespo, M.C. Gimeno, P.G. Jones, A. Laguna

Title: Synthesis of new amido and pyrazolato ferrocene ligands. Study of their reactivity with different metallic fragments

Type of participation: Poster

Congress: **7^e Journee Chimie Grand Sud-Ouest**

Place: Toulouse (Francia)

Date: November 1997

49. Authors: O. Crespo, M.C. Gimeno, P.G. Jones, A. Laguna, M.D. Villacampa

Title: Reactivity of the [1-Me-2-S-1,2-C₂B₁₀H₁₀] ligand

Type of participation: Poster

Congress: **7^e Journee Chimie Grand Sud-Ouest**

Place: Toulouse (Francia)

Date: November 1997

50. Authors: O. Crespo, M.C. Gimeno and A. Laguna

Title: Gold and silver complexes with *ortho*-carborane derivatives.

Type of participation: Chairman and Invited Talk

Congress: **Fourth International Meeting on Gold and Silver in Medicine**

Place: Milwaukee (U.S.A.)

Date: May 1998

51. Authors: O. Crespo, M. C. Gimeno, P.G. Jones, A. Laguna and M. D. Villacampa

Title: Synthesis and characterization of gold(I) and gold(III) complexes with 1-methyl-2-sulfanyl-1,2-dicarbocloso-dodecaborate

Type of participation: Poster

Congress: **Fourth International Meeting on Gold and Silver in Medicine**

Place: Milwaukee (U.S.A.)

Date: May 1998

52. Authors: E. M. Barranco, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna

Title: Gold and silver complexes with the ferrocenyl phosphine FcCH₂PPh₂ [Fc = (C₅H₅)Fe(C₅H₄)]

Type of participation: Poster

Congress: **Fourth International Meeting on Gold and Silver in Medicine**

Place: Milwaukee (U.S.A.)

Date: May 1998

53. Authors: E. M. Barranco, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna

Title: Complejos di- y tricoordinados de oro y plata con el ligando ferrocenilmetilfosfina, FcCH₂PPh₂, [Fc = (η⁵-C₅H₅)Fe(η⁵-C₅H₄)]

Type of participation: Poster

Congress: **XVII Reunión del Grupo Especializado de Química Organometálica**

Place: Barcelona

Date: July 1998

54. Authors: S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna

Title: Complejos polinucleares de oro con ligandos seleniuro puente.

Type of participation: Poster

Congress: **XVII Reunión del Grupo Especializado de Química Organometálica**

Place: Barcelona

Date: July 1998

55. Authors: O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca

Title: Complejos de oro y plata con el ligando 1,1'-bis(dietilditiocarbamato)ferroceno

Type of participation: Poster

Congress: **XVII Reunión del Grupo Especializado de Química Organometálica**

Place: Barcelona

Date: July 1998

56. Authors: E. M. Barranco, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa

Title: Síntesis de $\text{FcCHN}(\text{CH}_2)_2\text{SH}$ [$\text{Fc} = (\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\eta^5\text{-C}_5\text{H}_4)$] y estudio de su reactividad frente a centros de oro(I)

Type of participation: Poster

Congress: **XVII Reunión del Grupo Especializado de Química Organometálica**

Place: Barcelona

Date: July 1998

57. Authors: E. J. Fernández, J. M. López de Luzuriaga, M. Monge, M. A. Rodríguez, O. Crespo, M. C. Gimeno, A. Laguna and P. G. Jones

Title: Metiltiometilfosfina como precursor de complejos polinucleares. Evidencia teórica de interacciones transanulares metal-metal

Type of participation: Poster

Congress: **XVII Reunión del Grupo Especializado de Química Organometálica**

Place: Barcelona

Date: July 1998

58. Authors: E. J. Fernández, J. M. López de Luzuriaga, M. Monge, M. A. Rodríguez, O. Crespo, M. C. Gimeno, A. Laguna and P. G. Jones

Title: Methylthiomethylphosphine as precursor of polynuclear complexes. Theoretical evidence of transannular metal-metal interactions

Type of participation: Poster

Congress: **The XVIIIth International Conference on Organometallic Chemistry**

Place: Munich (Germany)

Date: August 1998

59. Authors: E. M. Barranco, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa

Title: Synthesis of $\text{FcCHN}(\text{CH}_2)_2\text{SH}$ [$\text{Fc} = (\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\eta^5\text{-C}_5\text{H}_4)$] and reactivity toward gold(I) centers

Type of participation: Poster

Congress: **IV Conferência de Química Inorgânica**

Place: Peniche (Portugal)

Date: March 1999

60. Authors: A. Laguna and M. C. Gimeno

Title: Ferrocene and carborane derivatives as ligands in gold and silver chemistry.

Type of participation: **Plenary Lecture**

Congress: **XIIth FECHEM Conference on Organometallic Chemistry**

Place: Lisboa (Portugal)

Date: September 1999

61. Authors: O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and C. Sarroca

Title: Synthesis of gold and silver complexes with the 1,1'-bis(2-pyridinethiolate)ferrocene derivative

Type of participation: Poster

Congress: **XIIth FECHEM Conference on Organometallic Chemistry**

Place: Lisboa (Portugal)

Date: September 1999

62. Authors: S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones and A. Laguna

Title: Polynuclear gold complexes with bridging selenido ligands

Type of participation: Poster

Congress: **XIIth FECHEM Conference on Organometallic Chemistry**

Place: Lisboa (Portugal)

Date: September 1999

63. Authors: E. J. Fernández, J. M. López de Luzuriaga, M. Monge, M. A. Rodríguez, M. C. Gimeno, A. Laguna and P. G. Jones

Title: Mixed gold, silver and copper complexes with methylenethiomethylphosphine. Theoretical evidence of gold-silver interactions

Type of participation: Poster

Congress: **XIIth FECHEM Conference on Organometallic Chemistry**

Place: Lisboa (Portugal)

Date: September 1999

64. Authors: M.J. Calhorda, O. Crespo, M.C. Gimeno, P.G. Jones, A. Laguna, J.M. López de Luzuriaga, J.L. Perez, M.A. Ramón, L.F. Veiros

Title: Theoretical studies of tetranuclear gold clusters with carborane ligands

Type of participation: Poster

Congress: **XVII Encontro Nacional de Quimica**

Place: Lisboa

Date: March 2000

65. Authors: M. J. Calhorda, O. Crespo, M. C. Gimeno and A. Laguna

Title: The Au-Ag interaction in a dimer containing a helical chain

Type of participation: Poster

Congress: **The Dalton Discussion 3 - Inorganic Crystal Engineering**

Publicación: Libro de resúmenes

Place: Bologna (Italia)

Date: September 2000

66. Authors: A. Codina, E. J. Fernández, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga, M. Monge, P. Pyykkö, M. A. Rodríguez and D. Sundholm

Title: $[\text{Au}(\text{C}_6\text{F}_5)_2]^-$ and $[\text{Ag}(\text{C}_6\text{F}_5)\text{L}]$ as precursors for the construction of molecular networks. Optical and theoretical properties

Type of participation: Poster

Congress: **34th International Conference on Coordination Chemistry**

Place: Edinburgh (Reino Unido)

Date: July 2000

67. Authors: O. Crespo, M. C. Gimeno and A. Laguna

Title: Complejos de oro con ligandos ferroceno y carborano con diferentes grupos funcionales

Type of participation: **Oral communication**

Congress: **Reunión Científica de Bioinorgánica**

Place: Miraflores de la Sierra (Madrid)

Date: September 2000

68. Authors: S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and F. Mendizabal

Title: Gold complexes with bridging selenido ligands. Theoretical studies of the Au(I)-Au(I) and Au(I)-Au(III) interactions

Type of participation: Poster

Congress: **6th FIGIPS Meeting in Inorganic Chemistry**

Place: Barcelona

Date: July 2001

69. Authors: O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, J. M. López de Luzuriaga, J. L. Pérez and M. A. Ramón

Title: Luminescence properties of three-coordinate gold derivatives with the *closo*- and *nido*-diphosphines $(PR_2)_2C_2B_{10}H_{10}$ and $[(PR_2)_2C_2B_9H_{10}]^-$ (R = Ph, ⁱPr)

Type of participation: Poster

Congress: **6th FIGIPS Meeting in Inorganic Chemistry**

Place: Barcelona

Date: July 2001

70. Authors: O. Crespo, E.J. Fernández, M.C. Gimeno, P.G. Jones, A. Laguna, J.M. López de Luzuriaga, M. Monge, M.E. Olmos, J. Pérez

Title: Luminescence in gold-heterometal complexes

Type of participation: **Oral communication**

Congress: **XIVth FECHM Conference on Organometallic Chemistry**

Place: Gdansk (Polonia)

Date: September 2001

71. Authors: J. E. Aguado, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna and M. D. Villacampa

Title: Synthesis of ferrocene amine derivatives and coordination studies towards several metal centers

Type of participation: Poster

Congress: **XIVth FECHM Conference on Organometallic Chemistry**

Place: Gdansk (Polonia)

Date: September 2001

72. Authors: D. Abizanda, O. Crespo, M. C. Gimeno, J. Jiménez and A. Laguna

Title: Ciclo- y polifosfacenos con grupos laterales carborano

Type of participation: **Oral communication**

Congress: **Polímeros en el siglo XXI. VII Reunión del GEP**

Place: San Lorenzo de El Escorial (Madrid)

Date: September 2001

73. Authors: O. Crespo, E. J. Fernández, M. C. Gimeno, A. Laguna, J. M. López de Luzuriaga, F. Mendizabal, M.

Monge, M. E. Olmos and J. Pérez
Title: Complejos heteropolinucleares de oro
Type of participation: **Oral communication**
Congress: **XXIV Jornadas Chilenas de Química**
Place: Temuco (Chile) Date: November 2001

74. Authors: O. Crespo, M. C. Gimeno, A. Laguna, L. Tornil and V. V. Brusko
Title: Complejos de oro y plata con los ligandos N-bis(isopropoxi)-tiofosforiltiobenzamida y N-bis(isopropoxi)tiofosforil-N'-feniltiourea.
Type of participation: Poster
Congresso: **XX Reunión del Grupo Especializado de Química Organometálica**
Place: San Sebastián Date: July 2002

75. Authors: J. A. Aguado, M. C. Gimeno, A. Laguna, Y. Nieto and M. D. Villacampa
Title: Síntesis de ligandos amidoferroceno y estudio de su coordinación a centros de oro y plata.
Type of participation: Poster
Congress: **XX Reunión del Grupo Especializado de Química Organometálica**
Place: San Sebastián Date: July 2002

76. Authors: F. Canales, S. Canales, O. Crespo, M. C. Gimeno, A. Laguna and C. Larraz
Title: Polynuclear Chalcogenide-centered complexes with Metallophilic Interactions
Type of participation: **Chairman of the Technical Committee – Chemistry, Session Chairman and Oral Presentation**
Congress: **Gold 2003. International Conference on the Science, Technology and Industrial Applications of Gold**
Place: Vancouver, Canadá Date: September-October 2003

77. Authors: O. Crespo, M. C. Gimeno, A. Laguna, C. Larraz and M. D. Villacampa
Title: Clusters heteronucleares luminescentes con ligandos calcogenuro puente
Type of participation: **Oral communication**
Congress: **XII Reunión del Grupo Especializado de Química Organometálica**
Place: Ciudad Real Date: July 2004

78. Authors: O. Crespo, M. C. Gimeno, A. Laguna and C. Larraz
Title: Complejos polinucleares con ligandos selenolato
Type of participation: Poster
Congress: **XII Reunión del Grupo Especializado de Química Organometálica**
Place: Ciudad Real Date: July 2004

79. Authors: M. Kulcsar, A. Silvestru, A. Laguna, M. C. Gimeno and C. Silvestru
Title: Noi compusi hipervalenti ai elementelor din grupa 16 cu legatura E-M (E = Se, Te; M = Ag, Au)
Type of participation: Poster
Congress: **The XXVIII National Conference of Chemistry**
Place: Calimanesti-Caciulata, Valcea (Rumanía) Date: October 2004

80. Authors: M. C. Gimeno, A. Laguna and C. Larraz
Title: Luminiscencia en complejos de oro(I). Nuevos sistemas heteronucleares
Type of participation: **Invited Conference**
Congress: **Perspectivas de la Química Española para el siglo XXI. XXX Reunión Bienal de la Real Sociedad Española de Química**
Place: Lugo Date: September 2005

81. Authors: O. Crespo, M. C. Gimeno, A. Laguna, C. Larraz and M. D. Villacampa
Title: Luminiscencia en sistemas d^{10} con el ligando puente 2-piridildifenilfosfina, interacciones metalofílicas
Type of participation: Poster
Congress: **Perspectivas de la Química Española para el siglo XXI. XXX Reunión Bienal de la Real Sociedad Española de Química**
Place: Lugo Date: September 2005

82. Authors: M. A. Roy, A. Gascón, C. Alcaine, E. de la Iglesia, A. Alcalá, E. Sinués, A. Laguna, M.C. Gimeno and B. Conde
Title: Compuestos de coordinación de oro y plata: Actividad antitumoral
Type of participation: Poster
Congress: **X Congreso ASEICA 2005**
Place: Pamplona Date: October 2005

83. Authors: C. Ceamanos, M. C. Gimeno, M. N. Jayaswal and A. Laguna
Title: Group 11 metal complexes with the ferrocene monosubstituted FcCONHPy and disubstituted FcCONH(Py)₂ ligands
Type of participation: Poster
Congress: **XXII Internacional Conference on Organometallic Chemistry**
Place: Zaragoza Date: July 2006

84. Authors: M. C. Gimeno, A. Laguna, Y.-J. Shi and M. D. Villacampa
Title: Synthesis and characterization of gold, silver and copper complexes with the ligands [FcCH₂NMe₂](PPh₂) and [FcCH₂PPh₂](PPh₂)
Type of participation: Poster
Congress: **XXII Internacional Conference on Organometallic Chemistry**
Place: Zaragoza Date: July 2006

85. Authors: O. Crespo, M. C. Gimeno, A. Laguna, C. Larraz and M. D. Villacampa
Title: Luminescent heteropolynuclear complexes with the metalloligand [Au(C₆F₅)₃(PPhPy₂)]
Type of participation: Poster
Congress: **XXII Internacional Conference on Organometallic Chemistry**
Place: Zaragoza Date: July 2006

86. Authors: O. Crespo, M. C. Gimeno, A. Laguna and C. Díez
Title: Luminescent dinuclear gold derivatives with the bridging diphosphine [(PPh₂)₂C₂B₉H₁₀]
Type of participation: Poster

Congress: **XXII Internacional Conference on Organometallic Chemistry**

Place: Zaragoza

Date: July 2006

87. Authors: M. C. Gimeno, H. Goitia, A. Laguna, M. E. Luque, S. Val and M. D. Villacampa

Title: Gold complexes with conjugates of ferrocene with amino acids with possible antitumor activity

Type of participation: Poster

Congress: **XXII Internacional Conference on Organometallic Chemistry**

Place: Zaragoza

Date: July 2006

88. Authors: O. Crespo, M. C. Gimeno, A. Laguna, C. Larraz and M. D. Villacampa

Title: Luminescent heteropolynuclear complexes with chalcogenide and chalcogenolate ligands

Type of participation: **Invited Lecture**

Congress: **Gold 2006. New Industrial Applications for Gold**

Place: Limerick (Irlanda)

Date: September 2006

89. Authors: A. Covaci, A. Laguna, M. C. Gimeno, A. Silvestru and C. Silvestru

Title: Phosphines with 2-(Me₂NCH₂)C₆H₄ groups in the coordination chemistry of gold

Type of participation: Poster

Congress: **5th International Conference of the Chemical Societies of the South-East European Countries**

Place: Ohrid (Macedonia)

Date: September 2006

90. Authors: C. Ceamanos, M. C. Gimeno, M. N. Jayaswal and A. Laguna

Title: Complejos de metales del grupo 11 con los ligandos FcCONHPy y Fc(CONHPy)₂

Type of participation: Poster

Congress: **2ª Jornada de Jóvenes Investigadores de Aragón. Química y Física**

Place: Zaragoza

Date: November 2006

91. Authors: M. C. Gimeno, H. Goitia, A. Laguna, M. E. Luque, S. Val and M. D. Villacampa

Title: Complejos de oro con derivados de ferroceno y aminoácidos con posible actividad antitumoral

Type of participation: Poster

Congress: **2ª Jornada de Jóvenes Investigadores de Aragón. Química y Física**

Place: Zaragoza

Date: November 2006

92. Authors: O. Crespo, M. C. Gimeno, A. Laguna, C. Larraz and M. D. Villacampa

Title: Complejos polinucleares luminiscentes con el metaloligando [Au(C₆F₅)₃(PPhPy)₂]

Type of participation: Poster

Congress: **2ª Jornada de Jóvenes Investigadores de Aragón. Química y Física**

Place: Zaragoza

Date: November 2006

93. Authors: M. C. Gimeno, A. Laguna, M. L. Ortego and M. D. Villacampa

Title: Complejos de metales del grupo 11 con el ligando N-etiliden-2(5-imidazoil)isonicotinaamida de interés biológico

Type of participation: Poster

Congress: **2ª Jornada de Jóvenes Investigadores de Aragón. Química y Física**
Place: Zaragoza Date: November 2006

94. Authors: A. Covaci, D. Marginean, A. Laguna, M. C. Gimeno and A. Silvestru
Title: Late Transition Metal Complexes with Hipervalent Organophosphorus(III) Ligands
Type of participation: Poster
Congress: **XVII EuCheMS Conference on Organometallic Chemistry**
Place: Sofia (Bulgaria) Date: September 2007

95. Authors: C. Ceamanos, O. Bumbu, M. C. Gimeno, A. Laguna, C. Silvestru and M. D. Villacampa
Title: Síntesis y caracterización de novedosos clusters oro-teluro $[Au_8(I-Ter)_8(PR'_3)_4]$
Type of participation: Poster
Congress: **XXXI Reunión Bienal de la Real Sociedad Española de Química**
Place: Toledo Date: September 2007

96. Authors: H. Goitia, M. C. Gimeno and A. Laguna
Title: Síntesis de complejos de oro y plata con N-(2-etildifenilfosfina)-2-tiofenamida con posible actividad biológica
Type of participation: Poster
Congress: **XXXI Reunión Bienal de la Real Sociedad Española de Química**
Place: Toledo Date: September 2007

97. Authors: M. C. Blanco, J. Cámara, M. C. Gimeno, A. Laguna, J. M. López de Luzuriaga, M. E. Olmos and M. D. Villacampa
Title: Nuevos derivados luminiscentes de oro(I) con ligandos acetiluros
Type of participation: **Oral communication**
Congress: **XXVI Reunión del Grupo Especializado de Química Organometálica**
Place: Santiago de Compostela Date: September 2008

98. Authors: H. Goitia, M.C. Gimeno, A. Laguna, S. Wagner and C. Kasper
Title: Síntesis de complejos de oro con N-(2-etildifenilfosfina)-2-ferrocenamida con actividad biológica
Type of participation: Poster
Congress: **XXVI Reunión del Grupo Especializado de Química Organometálica**
Place: Santiago de Compostela Date: September 2008

99. Authors: M. C. Gimeno, A. Laguna, M. L. Ortego and M. D. Villacampa
Title: Complejos metálicos del grupo 11 con el ligando N-(4-piridincarbonil)triptofanato de metilo y estudio de su actividad biológica
Type of participation: Poster
Congress: **XXVI Reunión del Grupo Especializado de Química Organometálica**
Place: Santiago de Compostela Date: September 2008

100. Authors: M. Kulcsar, M. C. Gimeno, A. Laguna, C. Silvestru

Title: Nuevos complejos polinucleares de oro y plata con ligandos selenolatos
Type of participation: Poster
Congress: **XXVI Reunión del Grupo Especializado de Química Organometálica**
Place: Santiago de Compostela Date: September 2008

101. Authors: A. Laguna, O. Crespo, M.C. Gimeno, I. Ospino
Title: Carborane gold complexes: synthesis and luminescent properties
Type of participation: **Chairperson and Invited Lecture**
Congress: **XIII imeBoron. Internacional Conference on Boron Chemistry**
Place: Platja d'Aro Date: September 2008

102. Authors: I. Ospino, O. Crespo, C. Díez, M.C. Gimeno, A. Laguna, M. Monge
Title: Photophysical and theoretical studies on luminescent gold complexes with anion $[7,8-(PPh_2)_2-(7,8-C_2B_9H_{10})]$ as ligand
Type of participation: Poster
Congress: **XIII imeBoron. Internacional Conference on Boron Chemistry**
Place: Platja d'Aro Date: September 2008

103. Authors: M. C. Blanco, J. Cámara, M. C. Gimeno, A. Laguna, J. M. López de Luzuriaga, M. E. Olmos and M. D. Villacampa
Title: Nuevos derivados luminiscentes de oro(I) con ligandos acetiluro
Type of participation: Poster
Congress: **3ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: December 2008

104. Authors: I. Ospino, O. Crespo, C. Díez, M. C. Gimeno, A. Laguna and M. Monge
Title: Estudio fotofísico y teórico de complejos de oro con el anión $[7,8-(PPh_2)_2-(7,8-C_2B_9H_{10})]$ como ligando
Type of participation: Poster
Congress: **3ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: December 2008

105. Authors: J. Bernal, C. Cativiela, M.C. Gimeno, A. Gutierrez and A. Laguna
Title: Síntesis y caracterización de complejos de oro(I) con tioaminoácidos
Type of participation: Poster
Congress: **3ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: December 2008

106. Authors: H. Goitia, M.C. Gimeno, A. Laguna, S. Wagner and C. Kasper
Title: Síntesis de complejos de oro con N-(2-etildifenilfosfina)-2-ferrocenamida con actividad biológica
Type of participation: Poster
Congress: **3ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: December 2008

107. Authors: M. C. Gimeno, A. Laguna, M. L. Ortego and M. D. Villacampa
Title: Complejos metálicos del grupo 11 con el ligando N-(4-piridincarbonil)triptofanato de metilo y estudio de su actividad biológica
Type of participation: Poster
Congress: **3ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: December 2008

108. Authors: H. Goitia, M. C. Gimeno, A. Laguna, S. Wagner and C. Kasper
Title: Gold compounds with ferrocene and thiophene conjugates of 2-thiocytosine. Studies of antitumour activity
Type of participation: **Miembro del Chemistry Committee y Comunicación oral**
Congress: **Gold 2009. The 5th International Conference on Gold Science, Technology and its Applications**
Place: Heidelberg (Germany) Date: July 2009

109. Authors: M.C. Gimeno, H. Goitia, A. Laguna, L. Ortego, M.D. Villacampa, M. Fillat y C. Kasper
Title: Síntesis de complejos de oro con actividad biológica
Type of participation: **Oral communication**
Congress: **XXXII Reunión Bienal de la Real Sociedad Española de Química**
Place: Oviedo Date: September 2009

110. Authors: A. Gutierrez, C. Cativiela, M. C. Gimeno and A. Laguna
Title: Síntesis y caracterización de complejos de oro(I) con tioaminoácidos. Estudio de sus propiedades biológicas
Type of participation: Poster
Congress: **XXXII Reunión Bienal de la Real Sociedad Española de Química**
Place: Oviedo Date: September 2009

111. Authors: O. Crespo, C. Díez, M. C. Gimeno, A. Illie, P. G. Jones, A. Laguna, M. Monge, I. Ospino, C. Silvestru, J. Tapias and M. D. Villacampa
Title: Carboranos y sus derivados como ligandos en la química de oro y plata, una llave a interesantes estructuras y complejos emisores
Type of participation: **Conference**
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

112. Authors: R. Visbal, M. C. Gimeno and A. Laguna
Title: Síntesis y comparación de ligandos iluro, carbeno y fosfinas en complejos de oro(I)
Type of participation: **Comunicación Oral**
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

113. Authors: S. Montanel, M. C. Gimeno, A. Laguna and M. D. Villacampa
Title: Síntesis de complejos de oro y plata con el ligando N-(4-piridincarbonil)-2-anilino piridina
Type of participation: **Oral communication**
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

114. Authors: A. Gutiérrez, M. C. Gimeno, C. Cativiela and A. Laguna
Title: Síntesis y caracterización de complejos de oro(I) con tioaminoácidos
Type of participation: **Oral communication**
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

115. Authors: M. C. Blanco, J. Cámara, M. C. Gimeno, A. Laguna and M. D. Villacampa
Title: Nuevos derivados polialquilínicos de oro(I) con interesantes propiedades ópticas y estructurales
Type of participation: Poster
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

116. Authors: J. Cámara, M. C. Blanco, M. C. Gimeno, A. Laguna and M. D. Villacampa
Title: Compuestos de oro(I) y plata(I) de elevada nuclearidad con llamativas propiedades estructurales
Type of participation: Poster
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

117. Authors: I. Ospino, O. Lehtonen, O. Crespo, M. C. Gimeno, A. Laguna and P. Pyykkö
Title: Síntesis e interpretación teórica de la estructura y propiedades ópticas de complejos d^8-d^{10} con ligandos tiolato- y fosfina-carborano
Type of participation: Poster
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

118. Authors: M. D. Villacampa, L. Ortego, M. C. Gimeno, A. Laguna and M. Fillat
Title: Síntesis de tiolatos de oro(I) con ligandos fosfinaamino. Estudio de su actividad bactericida
Type of participation: Poster
Congress: **I Workshop on Chemistry of Group 11 Elements**
Place: Logroño Date: June-July 2010

119. Authors: M. C. Gimeno, O. Crespo, M. Kulscsar, A. Laguna and C. Larraz
Title: Formación de diferentes agregados moleculares luminiscentes con complejos de oro con tiolatos como unidades de construcción
Type of participation: **Oral communication**
Congress: **XXVIII Reunión del Grupo Especializado de Química Organometálica**
Place: Punta Umbria (Huelva) Date: September 2010

120. Authors: M. C. Blanco, J. Cámara, M. C. Gimeno, A. Laguna, A. Ochoa and M. D. Villacampa
Title: Nuevos derivados poliacetilénicos de oro(I) con distintas propiedades estructurales
Type of participation: Poster
Congress: **XXVIII Reunión del Grupo Especializado de Química Organometálica**
Place: Punta Umbria (Huelva) Date: September 2010

121. Authors: O. Crespo, M. C. Gimeno, A. Laguna, O. Lehtonen, I. Ospino and P. Pykko
Title: Estudio de las propiedades luminiscentes de complejos bimetálicos con interacciones d^8-d^{10} soportadas por ligandos carborano
Type of participation: Poster
Congress: **XXVIII Reunión del Grupo Especializado de Química Organometálica**
Place: Punta Umbria (Huelva) Date: September 2010

122. Authors: M. C. Blanco, J. Câmara, M. C. Gimeno, A. Laguna and M. D. Villacampa
Title: Compuestos de oro(I) y plata(I) de elevada nuclearidad con llamativas propiedades estructurales
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

123. Authors: M. C. Gimeno, H. Goitia, A. Laguna, M. E. Luque, M. D. Villacampa, C. Sepúlveda and M. Meireles
Title: Compuestos de ferroceno con aminoácidos. Coordinación de complejos de oro y propiedades antitumorales
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

124. Authors: L. García Fleta, A. Gutiérrez, S. Isem de Val, I. Marzo, M. C. Gimeno, A. Laguna and C. Catiuela
Title: Estudio de la toxicidad de complejos de oro(I) con tioaminoácidos sobre células tumorales humanas
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

125. Authors: T. Aroz, M. C. Gimeno, M. Kulcsar, A. Laguna and V. Lipolis
Title: Nuevos complejos del grupo 11 con ligando tio y seleno imidazol
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

126. Authors: O. Crespo, M. C. Gimeno, R. Marriott, M. Monge and A. Laguna
Title: Síntesis y estudio de complejos de oro y plata luminiscentes con ligandos heterocíclicos N-dadores
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

127. Authors: S. Montanel, M. C. Gimeno, A. Laguna and M. D. Villacampa
Title: Síntesis de complejos de oro y plata con ligandos derivados de 2-anilinopiridina
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

128. Authors: L. Ortego, M. C. Gimeno, A. Laguna, M. D. Villacampa and M. Fillat
Title: Síntesis de tiolatos de oro(I) con ligandos fosfinoamina. Estudio de su actividad bactericida
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

129. Authors: I. Ospino, O. Lehtonen, O. Crespo, M. C. Gimeno, A. Laguna and P. Pyykko
Title: Síntesis e interpretación teórica de la estructura y propiedades ópticas de complejos d⁸-d¹⁰ con ligandos tiolato- y fosfina-carborano
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

130. Authors: R. Visbal, M. C. Gimeno and A. Laguna
Title: Síntesis caracterización de complejos de oro y plata con nuevos ligandos carbeno N-heterocíclicos (HNC)
Type of participation: Poster
Congress: **4ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2010

131. Authors: I. Ospino, O. Lehtonen, O. Crespo, M. C. Gimeno, A. Laguna and P. Pyykko
Title: Synthesis and theoretical study of the optical properties of d⁸-d¹⁰ carborane thiolate phosphine complexes
Type of participation: Poster
Congress: **19th International Symposium on the Photochemistry and Photophysics of Coordination Compounds**
Place: Strasbourg (Francia) Date: July 2011

132. Authors: J. Cámara, M.C. Blanco, C. Lagunas, M. C. Gimeno, S. James, A. Laguna and M. D. Villacampa
Title: Solvent-free vs. conventional synthesis of high nuclearity gold(I) and silver(I) complexes
Type of participation: Poster
Congress: **19th International Symposium on the Photochemistry and Photophysics of Coordination Compounds**
Place: Strasbourg (Francia) Date: July 2011

133. Authors: V. Fernández-Moreira, L. Ortego, M. D. Villacampa, A. Laguna and M.C. Gimeno
Title: Bioconjugated Re(I) Derivatives for Cell Imaging Applications
Type of participation: Poster
Congress: **5th EuCheMS Conference on Nitrogen Ligands**
Place: Granada Date: September 2011

134. Authors: R. Visbal, A. Laguna and M. C. Gimeno
Title: Reactividad de complejos de oro(I) con ligandos carbeno N-heterocíclicos frente a fosfinas bidentadas
Type of participation: Poster

Congress: **XXX Reunión del Grupo Especializado en Química Organometálica**
Place: Castellón Date: July 2012

135. Authors: M. C. Gimeno, S. Montanel, A. Laguna and M. D. Villacampa
Title: Formación de nuevos metalaciclos de oro con ligandos carbeno difuncionales
Type of participation: Poster
Congress: **XXX Reunión del Grupo Especializado en Química Organometálica**
Place: Castellón Date: July 2012

136. Authors: V. Fernández-Moreira, L. Ortego, C. F. Williams, M. P. Coogan, A. Laguna, M. D. Villacampa and M. C. Gimeno
Title: Bioconjugated Re(I) Complexes with Amino Acid Derivatives: Synthesis, Photophysical Properties and Cell Imaging Studies
Type of participation: **Flash communication**
Congress: **XXV Internacional Conference on Organometallic Chemistry**
Place: Lisboa Date: September 2012

137. Authors: M. C. Gimeno, A. Gutierrez, J. Bernal, A. Laguna, M. D. Villacampa, C. Cativiela, L. Gracia, S. Isern de Val and I. Marzo
Title: New Gold Thiolates Containing Aminoacid Moieties with Antitumoral Properties
Type of participation: **Oral communication**
Congress: 40 Internacional Conference on Coordination Chemistry
Place: Valencia Date: September 2012

138. Authors: M. C. Gimeno, A. Laguna and R. Visbal
Title: Complejos tricoordinados de oro(I) con ligandos NHC: Una clase de compuestos muy luminiscentes
Type of participation: Poster
Congress: **XXXIV Reunión Bienal de la Real Sociedad Española de Química**
Place: Santander Date: September 2013

139. Authors: M. J. Gómara, R. Galatola, A. Gutiérrez, M. C. Gimeno, J. M. Gatell, V. Sánchez-Merino, E. Yuste and I. Haro
Title: Design, synthesis and antiretroviral study (anti-HIV-1) of different forms of presentation of peptidic domains of GBV-C
Type of participation: Poster
Congress: **XXXIV Reunión Bienal de la Real Sociedad Española de Química**
Place: Santander Date: September 2013

140. Authors: M. C. Gimeno
Title: Química Organometálica y Catálisis Homogenea
Type of participation: **President of the Session**
Congress: **XXXIV Reunión Bienal de la Real Sociedad Española de Química**
Place: Santander Date: September 2013

141. Authors: A. Johnson, A. Laguna and M. C. Gimeno

Title: Gold allenes

Type of participation: **Oral presentation**

Congress: **XXXI Conference Group Expert Group Meeting in Organometallic Chemistry**

Place: Tarragona

Date: September 2014

142. Authors: M. C. Gimeno, S. Montanel-Pérez, R. P. Herrera, A. Laguna and M. D. Villacampa

Title: Amine Gold(III) Complexes with Catalytic Activity as Precursors of Novel Bidentate Acyclic Carbene Derivatives

Type of participation: Poster

Congress: **XXXI Conference Group Expert Group Meeting in Organometallic Chemistry**

Place: Tarragona

Date: September 2014

143. Authors: R. Visbal, A. Laguna and M. C. Gimeno

Title: Synthesis and Characterisation of Thiolate Bridged Gold(I)-NHC Complexes and their Application in Catalysis

Type of participation: Poster

Congress: **XXXI Conference Group Expert Group Meeting in Organometallic Chemistry**

Place: Tarragona

Date: September 2014

144. Authors: A. Johnson, A. Laguna and M. C. Gimeno

Title: Complejos oro-alenilo

Type of participation: **Comunicación oral**

Congress: **6ª Jornada de Jóvenes Investigadores de Aragón**

Place: Zaragoza

Date: November 2014

145. Authors: A. Izaga, R. P. Herrera and M. C. Gimeno

Title: Activación pionera de organocatalizadores mediante ácidos de Lewis metálicos

Type of participation: Poster

Congress: **6ª Jornada de Jóvenes Investigadores de Aragón**

Place: Zaragoza

Date: November 2014

146. Authors: M. L. Ortego, M. C. Gimeno, A. Laguna, M. D. Villacampa, C. Kasper and M. Meireles.

Title: Acción antitumoral de complejos de oro(I), oro(III), plata(I) y cobre(I) con ligandos derivados de aminoácidos.

Type of participation: Poster

Congress: **6ª Jornada de Jóvenes Investigadores de Aragón**

Place: Zaragoza

Date: November 2014

147. Authors: B. Palacino-Blázquez, A. Gutiérrez, I. Marzo, M. D. Villacampa and M. C. Gimeno

Title: Complejos de oro(III) con ligandos derivados del ácido niflúmico con potencial actividad biológica.

Type of participation: Poster

Congress: **6ª Jornada de Jóvenes Investigadores de Aragón**

Place: Zaragoza

Date: November 2014

148. Authors: D. Salvador-Gil, L. Ortego, R. P. Herrera and M. C. Gimeno
Title: Síntesis de complejos de cobre, plata y oro con posible actividad biológica.
Type of participation: Poster
Congress: **6ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2014

149. Authors: R. Visbal, A. Laguna and M. C. Gimeno
Title: Funcionalización de sales de imidazolio a través de reacciones tipo retro-Claisen
Type of participation: Poster
Congress: **6ª Jornada de Jóvenes Investigadores de Aragón**
Place: Zaragoza Date: November 2014

150. Authors: A. Laguna, M. C. Gimeno and J. M. López de Luzuriaga
Title: Auophilic interactions. Luminescence
Type of participation: **Plenary Lecture**
Congress: **9th Workshop of Computational Chemistry and Molecular Spectroscopy**
Place: Punta de Tralca (Chile) Date: October 2014

151. Authors: V. Fernández-Moreira, I. Marzo and M. C. Gimeno
Title: Compuestos de Re(I) y Re(I)/Au(I): Agentes de contraste y Anticancerígenos.
Type of participation: **Oral presentation**
Congress: **IX Reunión Científica de Bioinorgánica**
Place: Cádiz (España) Date: June 2015

152. Authors: L. Ortego, A. Laguna, M. D. Villacampa and M. C. Gimeno
Title: Estudio biológico de tiolatos de oro (I) con ligandos aminofosfina
Type of participation: **Oral presentation**
Congress: **IX Reunión Científica de Bioinorgánica**
Place: Cádiz (España) Date: June 2015

153. Authors: A. Laguna, M. C. Gimeno and J. M. López de Luzuriaga
Title: Synthesis of Luminescent Gold Complexes
Type of participation: **Invited Lecture**
Congress: **XXXV Bienal de la RSEQ**
Place: La Coruña (España) Date: July 2015

154. Authors: M. C. Gimeno, V. Fernández-Moreira and I. Marzo
Title: Bimetallic Complexes as Cooperative Partners in Cell Imaging and Cancer Therapy
Type of participation: **Oral Presentation**
Congress: **XXXV Bienal de la RSEQ**
Place: La Coruña (España) Date: July 2015

155. Authors: M. C. Blanco, J. Cámara, M. C. Gimeno, A. Laguna, E. S. Smirnova, S. P. Tunik
Title: Luminiscencia en compuestos de oro(III): desde el rojo al azul
Type of participation: Póster
Congress: **XXXV Bienal de la RSEQ**
Place: La Coruña (España) Date: July 2015

156. Authors: A. Johnson, M. C. Gimeno and A. Laguna
Title: NHC Gold Complexes with Luminescent Properties
Type of participation: Póster
Congress: **XXXV Bienal de la RSEQ**
Place: La Coruña (España) Date: July 2015

157. Authors: M. E. Olmos, M. C. Gimeno, J. M. López de Luzuriaga, E. Manso, M. Monge and G. G. Wildgoose
Title: Complejos de oro(I) y oro(III) con terpiridina: propiedades fotofísicas y redox
Type of participation: Póster
Congress: **XXXV Bienal de la RSEQ**
Place: La Coruña (España) Date: July 2015

158. Authors: J. V. Alegre-Requena, A. Izaga, E. Marqués-López, M. C. Gimeno and R. P. Herrera
Title: New Trends in Hydrogen Bond Based Catalyst
Type of participation: **Oral Presentation**
Congress: **XXXV Bienal de la RSEQ**
Place: La Coruña (España) Date: July 2015

159. Authors: A. Johnson and M. C. Gimeno
Title: NHC Gold complexes from propargyl functionalised imidazolium salts
Type of participation: Poster
Congress: **Gold 2015 World Conference**
Place: Cardiff (United Kingdom) Date: July 2015

160. Authors: A. Johnson and M. C. Gimeno
Title: Luminescent NHC gold complexes from propargyl functionalized imidazolium salts
Type of participation: **Oral Presentation**
Congress: **XII Simposio de Investigadores Jóvenes**
Place: Barcelona (España) Date: November 2015

161. Authors: M. Aliaga Lavrijsen, M. Dolores Villacampa and M. C. Gimeno
Title: Síntesis de catalizadores de oro(I) y su estudio en reacciones multi-componente.
Type of participation: Poster
Congress: **XII Simposio de Investigadores Jóvenes**
Place: Barcelona (España) Date: November 2015

162. Authors: A. Izaga, R. P. Herrera and M. C. Gimeno
Title: Activación pionera de tioureas quirales con complejos de Au
Type of participation: Poster
Congress: **XII Simposio de Investigadores Jóvenes**
Place: Barcelona (España) Date: November 2015

163. Authors: A. Johnson and M. C. Gimeno
Title: An efficient and sustainable synthesis of NHC gold complexes.
Type of participation: Poster
Congress: **Dalton Conference 2016**
Place: Warwick (UK) Date: 29-31 March 2016

164. Authors: A. Izaga, R. P. Herrera, and M. C. Gimeno
Title: Gold(I) mediated thiourea organocatalyst activation: A synergic effect for asymmetric catalysis
Type of participation: Poster
Congress: **XXXIV GEQO Congress Organometallic Chemistry Group**
Place: Gerona (España) Date: 7-9 September 2016

165. Authors: M. C. Gimeno, A. Gutiérrez and A. Laguna
Title: Bioactive amino acid and peptide gold complexes.
Type of participation: Poster
Congress: **XXXIV GEQO Congress Organometallic Chemistry Group**
Place: Gerona (España) Date: 7-9 September 2016

166. Authors: Alice Johnson and M. C. Gimeno
Title: An efficient and sustainable synthesis of NHC gold complexes.
Type of participation: **Oral Presentation**
Congress: **XXXIV GEQO Congress Organometallic Chemistry Group**
Place: Gerona (España) Date: 7-9 September 2016

167. Authors: E. Cerrada, C. Sanchez, I. Mármol, P. Castellnou, S. Gascón, M. C. Gimeno and M. J. Rodriguez-Yoldi
Title: Alkynyl gold(I) derivatives as selective anticancer drugs
Type of participation: Poster
Congress: **XXXIV GEQO Congress Organometallic Chemistry Group**
Place: Gerona (España) Date: 7-9 September 2016

168. Authors: A. Luengo, V. Fernández-Moreira, M. C. Gimeno and I. Marzo
Title: Re(I) and Re(I)/Au(I) complexes for cell imaging and therapy applications.
Type of participation: Poster
Congress: **6th Euchems Chemical Congress**
Place: Sevilla (Spain) Date: 11-15 September 2016

169. Authors: M. Aliaga Lavrijsen, M. D. Villacampa and M. C. Gimeno
Title: Synthesis of Gold(I) catalysts and study of multicomponent reactions in the formation of indolicines and propargylamines.

Type of participation: **Oral Presentation**

Congress: **6th Euchems Chemical Congress**

Place: Sevilla (Spain)

Date: 11-15 September 2016

170. Authors: D. Salvador Gil and M. C. Gimeno.

Title: Activation and Cyclization Processes in Thioureas.

Type of participation: Poster

Congress: **6th Euchems Chemical Congress**

Place: Sevilla (Spain)

Date: 11-15 September 2016

171. Authors: M. Gil, J. M. López de Luzuriaga, M. C. Gimeno, M. Monge, M. E. Olmos and D. Pascual

Title: Factores que afectan a las propiedades ópticas de nuevos derivados heterometálicos de Au y Ag con terpiridinas sustituidas.

Type of participation: Poster

Congress: **XIII Simposio de Investigadores Jóvenes de la RSEQ, Sigma-Aldrich**

Place: Logroño (España)

Date: 8-11 November 2016

172. Authors: A. Luengo, V. Fernández-Moreira, M. C. Gimeno and I. Marzo.

Title: Hacia el diseño de fármacos para diagnóstico y terapia: Compuestos luminiscentes NHC de Re(I)/Au(I).

Type of participation: **Presentación oral**

Congress: **7^a Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (España)

Date: 24 November 2016

173. Authors: A. Johnson and M. C. Gimeno.

Title: An efficient and sustainable synthesis of NHC gold complexes.

Type of participation: Poster

Congress: **7^a Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (España)

Date: 24 November 2016

174. Authors: D. Salvador Gil and M. C. Gimeno

Title: Formación de heterociclos de interés biológico con ligandos tio(urea) y estudio de su coordinación a metales.

Type of participation: Poster

Congress: **7^a Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (España)

Date: 24 November 2016

175. Authors: K. Zhang, M. Meazza, A. Izaga, C. Contamine, M. C. Gimeno, R. P. Herrera and R. Rios

Title: Synergistic catalysis: Asymmetric synthesis of cyclopentanes bearing 4 stereogenic centers

Type of participation: Poster

Congress: **7^a Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (España)

Date: 24 November 2016

176. Authors: M. Aliaga Lavrijsen, R. P. Herrera, M. D. Villacampa and M. C. Gimeno
Title: Síntesis de catalizadores de oro(I) y estudio de las reacciones multicomponentes en la formación de indolizinas y propargilaminas.
Type of participation: Poster
Congress: **7ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**
Place: Zaragoza (España) Date: 24 November 2016

177. Authors: R. P. Herrera, D. Salvador-Gil, L. Ortego and M. C. Gimeno
Title: First Synthesis of Group 11 Metal Complexes with α -Hydrazidophosphonate Ligands and Biological Study
Type of participation: Póster
Congress: **14th International Symposium on Applied Bioinorganic Chemistry –ISABC14**
Place: Toulouse (Francia) Date: 7-10 June 2017

178. Authors: M. C. Gimeno, A. Luengo and V. Fernández-Moreira
Title: Heterometallic Re(I)/Au(I) complexes as theranostic agents.
Type of participation: **Oral Presentation**
Congress: **14th International Symposium on Applied Bioinorganic Chemistry –ISABC14**
Place: Toulouse (Francia) Date: 7-10 June 2017

179. Authors: F. Auria-Luna, E. Marqués-López, M. C. Gimeno and R. P. Herrera
Title: Organocatalytic Synthesis of Chiral 1,4-Dihydropyridines with Potential Biological Properties
Type of participation: **Online Presentation**
Congress: **3rd International Electronic Conference on Medicinal Chemistry**
Publication: Auria-Luna, F.; Marqués-López, M.; Gimeno, M.; P. Herrera, R. Organocatalytic Synthesis of Chiral 1,4-Dihydropyridines with Potential Biological Properties. In *Proceedings of the 3rd Int. Electron. Conf. Med. Chem.*, 1–30 November 2017; Sciforum Electronic Conference Series, Vol. 3, 2017; doi:10.3390/ecmc-3-04671
Place: International Date: 1-30 November 2017

180. Authors: V. Fernández-Moreira, J. V. Alegre-Requena, R. P. Herrera, I. Marzo and M. C. Gimeno
Title: Synthesis of luminescent squaramide monoesters: cytotoxicity and cell imaging studies in HeLa cells
Type of participation: **Online Presentation**
Congress: **3rd International Electronic Conference on Medicinal Chemistry**
Publication: P. Herrera, R.; Fernández-Moreira, V.; Alegre-Requena, J.; Marzo, I.; Gimeno, M. Synthesis of Luminescent Squaramide Monoesters: Cytotoxicity and Cell Imaging Studies in HeLa Cells. In *Proceedings of the 3rd Int. Electron. Conf. Med. Chem.*, 1–30 November 2017; Sciforum Electronic Conference Series, Vol. 3, 2017; doi:10.3390/ecmc-3-04667
Place: International Date: 1-30 November 2017

181. Authors: D. Salvador-Gil and M. C. Gimeno
Title: New Thiourea-thiazolidine Complexes and Study of their Biological Activity.
Type of participation: **Online presentation**
Congress: **3rd International Electronic Conference on Medicinal Chemistry**
Publication: Salvador Gil, D.; Gimeno, M. New Thiourea-thiazolidine Complexes and Study of their Biological Activity. In *Proceedings of the 3rd Int. Electron. Conf. Med. Chem.*, 1–30 November 2017; Sciforum Electronic Conference Series, Vol. 3, 2017; doi:10.3390/ecmc-3-04665

Place: International

Date: 1-30 November 2017

182. Authors: M. Aliaga Lavrijsen, M. D. Villacampa and M. C. Gimeno

Title: Novel Gold Complexes with Nitrogen Acyclic Carbenes and their Applications as Anticancer Agents

Type of participation: **Online presentation**

Congress: **3rd International Electronic Conference on Medicinal Chemistry**

Publication: Aliaga Lavrijsen, M.; Villacampa, M.; Gimeno, M. Novel Gold Complexes with Nitrogen Acyclic Carbenes and their Applications as Anticancer Agents. *In Proceedings of the 3rd Int. Electron. Conf. Med. Chem.*, 1–30 November 2017; Sciforum Electronic Conference Series, Vol. 3, 2017 ; doi:[10.3390/ecmc-3-04656](https://doi.org/10.3390/ecmc-3-04656)

Place: International

Date: 1-30 November 2017

183. Authors: M. C. Gimeno

Title: Symposium Women in Chemistry

Type of participation: **Speaker**

Congress: **IUPAC 2017 46th World Chemistry Congress**

Place: Sao Paulo (Brasil)

Date: 9-14 July 2017

184. Authors: A. Johnson and M. C. Gimeno

Title: Synthesis of Propargyl Functionalised NHC Gold Complexes with Biological and Luminescent

Type of participation: **Póster**

Congress: **RSC Sir Geoffrey Wilkinson Dalton Poster Symposium**

Place: London (UK)

Date: 27 March 2017

185. Authors: Alice Johnson and M. Concepción Gimeno

Title: Synthesis of Propargyl Functionalised NHC Gold Complexes and Study of their Luminescent and Biological Properties.

Type of participation: **Oral Presentation**

Congress: **RSC Dalton Younger Members Event**

Place: Bath (UK)

Date: 7-8 September 2017

186. Authors: M. Concepción Gimeno

Title: Synthesis and Applications of Functionalised N-Heterocyclic Carbene Gold Complexes

Type of participation: **Plenary Lecture**

Congress: **XV International Conference Students for Students**

Place: (Cluj) Romania

Date: 18-22 April 2018

187. Authors: M. Concepción Gimeno

Title: Targetting Therapies with Gold Complexes

Type of participation: **Invited Lecture**

Congress: **SINO - SPAIN Biomedical and Pharmaceutical Conference**

Place: Zaragoza

Date: 7 June 2018

188. Authors: Raquel P. Herrera, Anabel Izaga, Juan V. Alegre-Requena and M. Concepción Gimeno

Title: Gold(I)-Mediated Thiourea Organocatalyst Activation: A Synergic Effect for Asymmetric Catalysis

Type of participation: **Oral Presentation**

Congress: **Gold2018**

Place: Paris (France)

Date: 15-18 July 2018

189. Authors: M. Concepción Gimeno

Title: Synthesis and Applications of Functionalised *N*-Heterocyclic Carbene Gold Complexes

Type of participation: **Keynote Lecture**

Congress: **Gold2018**

Place: Paris (France)

Date: 15-18 July 2018

190. Authors: I. Marmol, P. Castellnou, R. Alvarez, M. C. Gimeno, M. J. Rodriguez-Yoldi and E. Cerrada

Title: Gold(I) complexes derived from flavonoids as anticancer drugs

Type of participation: Póster

Congress: **XXXVI GEQO Congress Organometallic Chemistry Group**

Place: Zaragoza (Spain)

Date: 5-7 September 2018

191. Authors: M. Calvo, O. Crespo, M. C. Gimeno, A. Laguna, M. T. Oliván, V. Polo, D. Rodríguez and J. M. Sáez-Rocher

Title: Luminescent Silver Diphosphane complexes

Type of participation: Póster

Congress: **XXXVI GEQO Congress Organometallic Chemistry Group**

Place: Zaragoza (Spain)

Date: 5-7 September 2018

192. Authors: D. Salvador-Gil, I. Marzo and M. C. Gimeno

Title: Urea functionalized NHC gold carbenes as anticancer agents

Type of participation: Póster

Congress : **XXXVI GEQO Congress Organometallic Chemistry Group**

Place: Zaragoza (Spain)

Date: 5-7 September 2018

193. Authors: M. Gil-Moles, J. M. López-de-Luzuriaga, M. C. Gimeno, M. Monge, M. E. Olmos and I. Marzo

Title: Preparation and Pharmaceutical Application of Terpyridine-silver(I) Complexes: Potential Anticancer Drugs

Type of participation: Póster

Congress : **XXXVI GEQO Congress Organometallic Chemistry Group**

Place: Zaragoza (Spain)

Date: 5-7 September 2018

194. Authors: M. Redrado, V. Fernández-Moreira, I. Marzo and M. C. Gimeno

Title: Heterometallic complexes for diagnosis and therapy

Type of participation: Póster

Congress : **XXXVI GEQO Congress Organometallic Chemistry Group**

Place: Zaragoza (Spain)

Date: 5-7 September 2018

195. Authors: A. Luengo, V. Fernández-Moreira, I. Marzo and M. C. Gimeno

Title: Novel Connections Between Rhenium(I) and Gold(I) for Theranostic Agents

Type of participation: Poster

Congress: **XXXVI GEQO Congress Organometallic Chemistry Group**
Place: Zaragoza (Spain) Date: 5-7 September 2018

196. Authors: M. Boege, J. Heck and M. C. Gimeno
Title: Functional Gold Materials
Type of participation: Poster
Congress: **XXXVI GEQO Congress Organometallic Chemistry Group**
Place: Zaragoza (Spain) Date: 5-7 September 2018

197. Authors: A. Alconchel, M. C. Gimeno, F. Ruighi, S. Ortega, I. Balbás, J. Quero, M. C. Gimeno, M. J. Rodríguez-Yoldi and E. Cerrada
Title: Gold(I) Derivatives with fluorous and hydrocarbon appendages as potential anticancer agents under hyperthermia
Type of participation: Póster
Congress: **XXXVI GEQO Congress Organometallic Chemistry Group**
Place: Zaragoza (Spain) Date: 5-7 September 2018

198. Authors: J. Fidalgo, J. Santolaya, N. Busto, F. A. Jalón, B. R. Manzano, V. Fernández-Moreira, M. C. Gimeno, B. García and G. Espino
Title: Ir(III) biscyclometallated Complexes as Selective G-Quadruplex stabilizers
Type of participation: Póster
Congress: **XXXVI GEQO Congress Organometallic Chemistry Group**
Place: Zaragoza (Spain) Date: 5-7 September 2018

200. Authors: M. C. Gimeno
Title: Synthesis and Applications of Functionalised *N*-Heterocyclic Carbene Gold Complexes
Type of participation: **Plenary Lecture**
Congress: **Groupe d'Etudes en Chimie Organique 59**
Place: Cabourg (France) Date: 5-7 September 2018

201. Authors: M. C. Gimeno
Title: Synthesis and Applications of Functionalised *N*-Heterocyclic Carbene Gold Complexes
Type of participation: **Plenary Lecture**
Congress: Barluenga Lectureship
Place: Oviedo (España) Date: 7-9 Noviembre 2018

202. Authors: A. Izaga, M. Lourdes Ortego, Raquel P. Herrera and M. Concepción Gimeno
Title: Síntesis de Complejos Metálicos del Grupo 11 y Estudio de sus Propiedades Biológicas
Type of participation: Poster
Congress: **8ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**
Place: Zaragoza (Spain) Date: 22 November 2018

203. Authors: A. Alconchel, F. Ruighi, S. Ortega, I. Balbás, J. Quero, M. C. Gimeno, M. J. Rodríguez-Yoldi and E. Cerrada

Title: Derivados de oro(I) con unidades fluoradas e hidrocarbonadas como posibles agentes anticancerosos bajo hipertermia.

Type of participation: Poster

Congress: **8ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (Spain)

Date: 22 November 2018

204. Authors: M. Aliaga Lavrijsen, M. D. Villacampa and M. C. Gimeno

Title: Gold(I) N-Acyclic Diamino Carbenes: Synthesis and Applications as Anticancer Agents.

Type of participation: Poster

Congress: **8ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (Spain)

Date: 22 November 2018

205. Authors: A. Luengo, V. Fernández-Moreira, I. Marzo and M. C. Gimeno

Title: Novel Connections Between Rhenium(I) and Gold(I) for Theranostic Agents

Type of participation: Poster (**Best Poster Award**)

Congress: **8ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (Spain)

Date: 22 November 2018

206. Authors: I. Mármol, P. Castellnou, R. Álvarez, M. C. Gimeno, M. J. Rodríguez-Yoldi and E. Cerrada

Title: Uso de Complejos de Oro(I) Derivados de Flavonoides con fines Quimioterapéuticos

Type of participation: Poster

Congress: **8ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (Spain)

Date: 22 November 2018

207. Authors: M. Redrado, V. Fernández-Moreira, I. Marzo and M. C. Gimeno

Title: Heterometallic Complexes for Diagnosis and Therapy

Type of participation: Poster

Congress: **8ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (Spain)

Date: 22 November 2018

208. Authors: D. Salvador-Gil and M. C. Gimeno

Title: Urea Functionalised NHC Gold Carbenes as Anticancer Drugs

Type of participation: Poster

Congress: **8ª Jornada de Jóvenes Investigadores en Física y Química de Aragón**

Place: Zaragoza (Spain)

Date: 22 November 2018

209. Authors: V. Fernández-Moreira, M. C. Gimeno, N. Metzler-Nolte and A. Luengo

Title: Gold(I) and iridium(III) bimetallic bioconjugates as theranostic agents

Type of participation: **Flash Presentation**

Congress: **XXXVII Reunión Bienal de la Real Sociedad Española de Química**

Place: San Sebastian (Spain)

Date: 26-30 May 2019

210. Authors: M. C. Gimeno, O. Crespo and A. Alconchel

Title: C¹³N Emitting Compounds. Synthesis and Reactivity

Type of participation: Poster
Congress: **XXXVII Reunión Bienal de la Real Sociedad Española de Química**
Place: San Sebastian (Spain) Date: 26-30 May 2019

211. Authors: V. Fernández-Moreira, M. C. Gimeno and M. Redrado
Title: Novel Iridium(III) – Gold(I) Complexes as Theranostic Agents
Type of participation: Poster (**Best Poster Award**)
Congress: **XXXVII Reunión Bienal de la Real Sociedad Española de Química**
Place: San Sebastian (Spain) Date: 26-30 May 2019

212. Authors: V. Fernández-Moreira, A. Luengo, M. Redrado and M. C. Gimeno
Title: Heterometallic Re(I)/Au(I) complexes
Type of participation: Poster
Congress: **XI Reunión Científica de Bioinorgánica (BioLugo 2019)**
Place: Lugo (Spain) Date: 30 June- 3 July 2019

213. Authors: A. Izaga, D. Salvador-Gil, M. L. Ortego, R. P. Herrera and M. C. Gimeno
Title: Síntesis de complejos metálicos del grupo 11 con ligandos tioureas o escuaramidas: estudio de sus propiedades biológicas
Type of participation: Poster (**Best Poster Award**)
Congress: **XI Reunión Científica de Bioinorgánica (BioLugo 2019)**
Place: Lugo (Spain) Date: 30 June- 3 July 2019

214. Authors: M. Redrado, V. Fernández-Moreira and M. C. Gimeno
Title: Novel Iridium(III) – Gold(I) Complexes as Theranostic Agents
Type of participation: Poster
Congress: **XI Reunión Científica de Bioinorgánica (BioLugo 2019)**
Place: Lugo (Spain) Date: 30 June- 3 July 2019

215. Authors: M. C. Gimeno
Title: Gold compounds as anticancer and theranostic agents
Type of participation: **Plenary Lecture**
Congress: **XI Reunión Científica de Bioinorgánica (BioLugo 2019)**
Place: Lugo (Spain) Date: 30 June- 3 July 2019

216. Authors: M. C. Gimeno
Title: Synthesis and Applications of Novel Organogold Complexes
Type of participation: **Plenary Lecture**
Congress: **12th ISOC International School of Organometallic Chemistry**
Place: Camerino (Italy) Date: 31 August - 4 September 2019

216. Authors: M. Boge, J. Heck and M. C. Gimeno
Title: Structure Property Relationship of Materials with Gold(I)-Gold(III) Interactions
Type of participation: **Flash Presentation**

Congress: **UK-Spain Organometallic Chemistry Symposium (USOCS2019)**

Place: Alcalá de Henares (Spain)

Date: 17-19 September 2019

217. Authors: M. C. Gimeno

Title: Synthesis and Applications of Novel Organogold Complexes

Type of participation: **Invited Lecture**

Congress: **2nd Sino-Spain Research and Innovation Forum**

Place: Nanjing (China)

Date: 28 October de 2019

218. Authors: M. C. Gimeno

Title: Luminescent Metal Complexes: Synthesis and Applications

Type of participation: **Plenary Lecture**

Congress: **Jornada Científica Prometeo 19**

Place: Valencia (Spain)

Date: 26 November 2019

219. Authors: M. C. Gimeno

Title: Luminescent Metal Complexes: Synthesis and Applications

Type of participation: **Invited Lecture**

Congress: **III International Workshop on Chemistry of Group 11 Elements**

Place: Lisboa (Portugal)

Date: 30-31 January 2020

220. Authors: R. P. Herrera, R. Visbal and M. C. Gimeno

Title: Thiolate Bridged Gold(I) NHC Catalysts: New Approach for Catalyst Design and its Application Trapping Catalytic Intermediates

Type of participation: **Flash Presentation** and Poster

Congress: **III International Workshop on Chemistry of Group 11 Elements**

Place: Lisboa (Portugal)

Date: 30-31 January 2020

221. F. Auria-Luna, S. Ardevines, E. Marqués-López, E. Romanos, V. Fernández-Moreira, M. C. Gimeno, I. Marzo, R. P. Herrera

Title: Novel ureido-dihydropyridine scaffolds as theranostic agents

Type of participation: **Online Oral Presentation**

6th International Electronic Conference on Medicinal Chemistry

Published: [10.3390/ECMC2020-07419](https://doi.org/10.3390/ECMC2020-07419) (registering DOI)

Place: International

Date: 31-30 November 2020

222. G. Sonsona, J. V. Alegre-Requena, E. Marqués-López, M. C. Gimeno, R. P. Herrera

Title: Asymmetric aza-Henry reaction of hydrazones

Type of participation: **Online Presentation**

The 24th International Electronic Conference on Synthetic Organic Chemistry

Published: [10.3390/ecsoc-24-08411](https://doi.org/10.3390/ecsoc-24-08411) (registering DOI)

Place: International

Date: 31-30 November 2020

Invited Conferences
(Universities, Centers of Research)

1. M. Concepción Gimeno
Title: Auophilicity in Gold(I) Complexes
Universidad de Braunschweig (Germany) Date: July 1991
2. M. Concepción Gimeno
Title: Carborane-Based Gold Derivatives
Universidad de Lisboa (Portugal) Date: September 1992
3. M. Concepción Gimeno
Title: Sulfur-Centered Gold Complexes
Universidad Técnica de Lisboa (Portugal) Date: June 1994
4. M. Concepción Gimeno
Title: Synthesis, structure and properties of mono- and polynuclear of gold or silver complexes. Metal-metal interactions
Universidad de Chile (Chile) Date: November 2000
5. M. Concepción Gimeno
Title: Chalcogenide and Chalcogenolate Gold Complexes.
Universidad de Babes-Bolyai (Rumania) Date: May 2006
6. M. Concepción Gimeno
Title: Chalcogenide and Chalcogenolate Gold Complexes.
Universidad de Timisoara (Rumania) Date: May 2006
7. M. Concepción Gimeno
Title: Chemistry in Current Medicine
Ambito Cultural de El Corte Inglés (España) Date: 8 March 2010
8. M. Concepción Gimeno
Title: Chemistry in Current Medicine
IES Cabañas, La Almunia (Zaragoza) Date: May 2011
9. M. Concepción Gimeno
Title: Gold compounds with chalcogenide or chalcogenolate ligands. Supramolecular architecture
Universidad de La Rioja (España) Date: June 2012
10. M. Concepción Gimeno
Title: Chemistry in Current Medicine
Carcel de Zuera (España) Date: May 2013
11. M. Concepción Gimeno
Title: Gold compounds with biological properties
Universidad Autónoma de Madrid (España) Date: Dicember 2014
12. M. Concepción Gimeno
Title: Chemistry in Current Medicine

- Colegio Santo Domingo de Silos (España)** Date: May 2014
13. M. Concepción Gimeno
Title: Chemistry in Current Medicine
Carcel de Zuera (España) Date: May 2014
14. M. Concepción Gimeno
Title: XXXVII Escola de Verão em Química, 2017. Química e Saúde!
Course 9 h
Metals in Medicine
Universidade Federal de São Carlos (Brasil) Date: 9-16 February 2017
15. M. Concepción Gimeno
Title: XXXVII Escola de Verão em Química, 2017. Química e Saúde!
Worshop
Metals in Therapy and Diagnosis
Universidade Federal de São Carlos (Brasil) Date: 12 February 2017
16. M. Concepción Gimeno
Title: Copper, Silver and Gold Compounds with Biological Activity
IES Ramón Pignatelli (Zaragoza) Date: 6 April 2017
17. M. Concepción Gimeno
Title: Gold Materials for Diagnosis and Therapy
Universidad de Almería (España) Date: 26 May 2017
18. M. Concepción Gimeno
Title: Mesa Redonda Mujer y Ciencia
ERA CAREER DAY Zaragoza (España) Date: 23 November 2017
19. M. Concepción Gimeno
Title: Gold Materials for Diagnosis and Therapy
Palacio de Ibercaja, Huesca (España) Date: 8 February 2018
20. M. Concepción Gimeno
Title: Gold NHC Complexes: Synthesis and Applications
Universidad de Valladolid (España) Date: 22 February 2018
21. M. Concepción Gimeno
Title: Metals in Medicine
Universidad de Valladolid (España) Date: 23 February 2018
22. M. Concepción Gimeno
Title: Gold therapies against cancer
II Ciclo de Coloquios "Chateando con la Ciencia"
Real Zaragoza Club de Tennis (España) Date: 15 March 2018
23. M. Concepción Gimeno
Date: Metals in Medicine
Ateneo de la EINA, Universidad de Zaragoza (España) Date: 21 March 2018

24. M. Concepción Gimeno
Title: Gold therapies against cancer
De Copas con Ciencia
Sotano Mágico, Zaragoza (España) Date: 22 March 2018
25. M. Concepción Gimeno
Title: Gold Materials in Cancer Therapy
Ciclo de Conferencias: Qué sabemos de...? (CSIC)
Ibercaja Patio de la Infanta, Zaragoza (España) Date: 10 April 2018
26. M. Concepción Gimeno
Title: Synthesis and Applications of Functionalised N-Heterocyclic Carbene Gold Complexes
University of East Anglia
Norwich (Inglaterra) Date: 9 May 2018
27. M. Concepción Gimeno
Title: Gold therapies against cancer
Master Class Talent Girl
Valladolid (España) Date: 9 June 2018
28. M. Concepción Gimeno
Title: Gold therapies against cancer
Semana de Inmersión en la Investigación
Facultad de Ciencias,
Universidad de Zaragoza (España) Date: 11 June 2018
29. M. Concepción Gimeno
Title: Gold therapies against cancer
Semana de la Ciencia en el Valle de Benasque
Benasque, Huesca (España) Date: 28 November 2018
30. M. Concepción Gimeno
Title: Gold in Medicine
Cariñena
Cariñena (España) Date: 11 March 2019
31. M. Concepción Gimeno
Title: Gold materials for diagnosis and therapy
Universidad de Elche
Alicante (España) Date: 15 March 2019
32. M. Concepción Gimeno
Title: Gold materials for diagnosis and therapy
Universidad de Alicante
Alicante (España) Date: 16 June 2019
33. M. Concepción Gimeno
Title: Design of bimetallic complexes as Theranostic agents.
Universidad de Barcelona
Barcelona (España) Fecha: 22 January 2021

34. M. Concepción Gimeno
Título: Women Scientics Breakfast
Instituto de Síntesis Química y Catálisis Homogénea
Zaragoza (España)

Date: 11 February 2021

Supervised Doctoral Thesis

1. Title: **Synthesis and structural study of gold and silver complexes with *closo* and *nido* carborane ligands**

Ph.D. Student: Olga Crespo Zaragoza
University of Zaragoza. Science Faculty
Date: 1995
Cum Laude

2. Title: **Hetero- and homo-polynuclear metal compounds of groups 6 and 11 with phosphorus polydentate ligands**

Ph.D. Student: Maria Elena Olmos Perez
University of Zaragoza. Science Faculty
Date: 1995
Cum Laude

3. Title: **Study of metal interactions in polynuclear gold compounds with sulfide or thiolate ligands bridges**

Ph.D. Student: Fernando Manuel Canales Cañas
University of Zaragoza. Science Faculty
Date: 1996
Cum Laude

4. Title: **Synthesis and reactivity of ligands containing the ferrocene unit against metal centers of group 11**

Ph.D. Student: Cristina Sarroca Lahuerta
University of Zaragoza. Science Faculty
Date: 1996
Cum Laude

5. Title: **Metal complexes with ferrocene ligands with different functional groups**

Ph.D. Student: Eva Barranco Arroyo
University of Zaragoza. Science Faculty
Date: 2000
Cum Laude

6. Title: **Gold and silver complexes with ligands containing selenium as a donor atom**

Ph.D. Student: Silvia Canales Cañas
University of Zaragoza. Science Faculty
Date: 2002
Cum Laude

Extraordinary Doctorate Award

7. Title: **Design of new ligands with the ferrocene unit for elements of group 11**

Ph.D. Student: Javier E. Aguado Sevilla
University of Zaragoza. Science Faculty
Date: 2005
Cum Laude

8. Title: **Molecular architecture in group 11 luminescent complexes with chalcogenide groups**

Ph.D. Student: Carmen Larraz Duaso
University of Zaragoza. Science Faculty
Date: 2006
Cum Laude

9. Title: **Synthesis and properties of polynuclear gold compounds**

Ph.D. Student: M^a Carmen Ceamanos Valero
University of Zaragoza. Science Faculty
Date: 2010
Cum Laude

10. Title: **Design of gold and silver complexes with antitumor properties**

Ph.D. Student: Helen Goitia Semeco
University of Zaragoza. Science Faculty
Date: 2011
Cum Laude

11. Title: **Synthesis of gold(I) complexes with amino acids and peptides and study of their biological activity**

Ph.D. Student: Alejandro Gutiérrez Allueva
University of Zaragoza. Science Faculty
Date: 2013
Cum Laude

12. Title: **Luminescent, Biological and Catalytic Studies of Group 11 N-Heterocyclic Carbene Metal Complexes.**

Ph.D. Student: Renso Raul Visbal Acevedo
University of Zaragoza. Science Faculty
Date: 15 July 2015
Cum Laude, International Mention
Extraordinary Doctorate Award

13. Title: **Synthesis and Properties of Novel Organogold Complexes: Ylide, Allenyl, N-Heterocyclic Carbene and Propargyl Derivatives**

Ph.D. Student: Alice Johnson
University of Zaragoza. Science Faculty
Date: 2 February 2018
Cum Laude, International Mention
Extraordinary Doctorate Award

14. Title: **Homo- and heterometallic compounds of group 11 with terpyridine-type ligands. Study of optical and biological properties**

Ph.D. Student: María Gil Moles
University of La Rioja. Science Faculty
Date: 22 November 2019
Cum Laude

15. Title: **Study of the synergistic effect between metal complexes and organocatalysts**

Ph.D. Student: Anabel Izaga Sebastian
University of Zaragoza. Science Faculty

Date: 29 November 2019
Cum Laude, International Mention

16. Title: **Synthesis of gold compounds with N-acyclic and N-heterocyclic carbene ligands: Study of their catalytic and biological properties**

Ph.D. Student: Melanie Aliaga Lavrijsen
University of Zaragoza. Science Faculty
Date: 17 December 2019
Cum Laude, International Mention

17. Title: **Design of Au-Re / Ir heterometallic complexes as teragnostic agents**

Ph.D. Student: Andrés José Luengo Baranguán
University of Zaragoza. Science Faculty
Date: 9 March 2020
Cum Laude, International Mention

18. Title: **Design of Au-Re / Ir heterometallic complexes as teragnostic agents**

Ph.D. Student: Daniel Salvador
University of Zaragoza. Science Faculty
Date: 14 July 2020
Cum Laude

Participation in Committees and International Representations

1.- Title of the Committee: **Chemistry Committee of Gold 2003. International Conference on the Science, Technology and Industrial Applications of Gold**

Entity that depends: World Gold Council

Topic: Science, Technology and Industrial Applications of Gold

Date: Septiembre 2003

2.- Title of the Committee: **Local Steering Committee. XXII International Conference on Organometallic Chemistry.**

Entity that depends: Departamento de Química Inorgánica/IUCH/Universidad de Zaragoza

Topic: Organometallic Chemistry

Date: July 2006

3.- Title of the Committee: **Chemistry Committee of Gold 2006. New Industrial Applications of Gold**

Entity that depends: World Gold Council

Topic: Catalysis, Chemistry, Materials, Nanotechnology

Date: September 2006

4.- Title of the Committee: **President of the Organizing Committee. XXXVI GEQO Congress Organometallic Chemistry Group**

Entity that depends: Spanish Royal Society of Chemistry

Topic: Organometallic Chemistry: Catalysis, Chemistry, Materials, Nanotechnology, Medicine

Date: 5-7 September 2018

Experience in Organization of R+D+i Activities

Organization of conferences, seminars, etc., science and technology

1.- Title: **Gold 2003. International Conference on the Science, Technology and Industrial Applications of Gold**

Kind of activity: Chemistry Committee

Ambit: International

Date: September 2003

2.-Title: **1ª Jornada de Jóvenes Investigadores en Química de Aragón.**

Kind of activity: Organizing Committee

Ambit: National

Date: September 2004

3.- Title: **XXII International Conference on Organometallic Chemistry**

Kind of activity: Local Steering Committee

Ambit: International

Date: July 2006

4.- Title: **Gold 2006. New Industrial Applications for Gold**

Kind of activity: Chemistry Committee

Ambit: International

Date: September 2006

5.-Title: **2ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón**

Kind of activity: President of the Organizing Committee

Ambit: National

Date: November 2006

6.-Title: **3ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón**

Kind of activity: President of the Organizing Committee Ambit: National

Date: December 2008

7.-Title: **4ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón**

Kind of activity: President of the Organizing Committee Ambit: National

Date: November 2010

8.-Title: **I Workshop on Chemistry of Group 11 Elements**

Kind of activity: Organizing Committee Ambit: International

Date: September 2010

9.-Title: **5ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón**

Kind of activity: President of the Organizing Committee Ambit: National

Date: December 2012

10.-Title: **6ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón**

Kind of activity: President of the Organizing Committee Ambit: National

Date: November 2014

11.-Title: **7ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón**

Kind of activity: Member of the Organizing Committee Ambit: National

Date: November 2016

12.-Title **XXXVI GEQO Congress Organometallic Chemistry Group**

Kind of activity: President of the Organizing Committee Ambit: National

Date: September 2018

13.-Title: **8ª Jornada de Jóvenes Investigadores (Química y Física) de Aragón**

Kind of activity: Member of the Organizing Committee Ambit: National

Date: November 2018

Supervised Research Works

- 7 Post-doctoral fellows: M. Jayaswal (2003-2004), Y.-J. Shi (2005-2006), M. Kulcsar (2010-2012), V. Fernández Moreira (2011-present), L. Ortego (2011-2014), O. Cifuentes (2013-2015), M. Bogë (2017-current) .
- 18 Defensed PhD.
- 15 Master Students, 17 Erasmus Students, 22 Undergraduate Students

Other Important Merits

1. Treasurer of the Territorial Section of Aragon of the Spanish Royal Society of Chemistry since 2002-2006.
2. **President of the Territorial Section of Aragon of the Spanish Royal Society of Chemistry since 2007 to 2016.**

3. **Vice President of the Royal Spanish Chemistry Society** (RSEQ, since 2019)
 4. Member of the Commission of Science and Technology Area of CSIC Chemical from 2008 to 2012
 5. **Deputy Director of the Institute of Chemical Synthesis and Homogeneous Catalysis (ISQCH) since 2011**
 6. Taught Doctorate courses at the University of Zaragoza
 - Reaction Mechanisms in Inorganic Chemistry from 1992/93 to 2002/03
 - Applications of transition metal complexes in medicine, from 1999/2000 to 2008/2009 courses
 7. Taught Course "Applications of transition metal complexes in medicine" in the Master in Chemistry University of Zaragoza, since the academic year 2009/2010-Currently
 8. Associate Professor of the University of Zaragoza during the course 2002/2003
 9. President of the Commission of Guarantee and Quality of the Master of Molecular Chemistry and Homogeneous Catalysis of ISQCH at the University of Zaragoza
 10. Evaluation of projects for the Spanish Ministry of Education and Science
 11. **Chemistry Coordinator of the State Research Agency** (Research projects for the Ministry of Education and Science, since 2018)
 12. Habitual evaluator of the following scientific journals:
Chem. Rev. – Chem. Soc. Rev. – Angew. Chem. – J. Am. Chem. Soc. – Dalton Trans. – Chem. Commun. – Inorg. Chem. – Organometallics – CrystEngComm. – Acta Cryst. Sect. C – Eur. J. Inorg. Chem. – Inorg. Chim. Acta – J. Organomet. Chem. – Dyes and Pigments – J. Mater. Chem. – Tetrahedron Letters – Inorg. Chem. Commun. – Polyhedron – J. Inorg. Biochem. – Beilstein J. Org. Chem. – ACS Catalysis – Cryst. Growth Des. – Adv. Mater. – Chem. Mater. – Chem. – ACS Omega – Chem. Select
 13. Editor of E-Journal of Chemistry (until 2017)
 14. Editor of Gold Bulletin
 15. Editor of Molecules
 16. Member of the International Advisory Board of *European Journal of Inorganic Chemistry*
 17. Membership: Spanish Royal Society of Chemistry, American Chemical Society
 18. Member of the prestigious GADEA Science Foundation as a member of the Scientific Advisory Council
-