

Dr. Contel's List of Scientific Publications & Patents (Chronological Order)

Publications

1. 'Mesityl Gold Complexes. Synthesis and Reactivity. X-Ray structure of $[(PPh_3Au(\mu\text{-mes})Ag(\text{tht}))_2][SO_3CF_3]_2$ (mes=mesityl, tht = tetrahydrothiophene)'. **M. Contel**, J. Jiménez, P.G. Jones, A. Laguna, and M. Laguna., *J. Chem. Soc., Dalton Trans.*, **1994**, 2515.
2. 'Triamidogerma- and -Stanna-aurates (I): First Structural Characterisation of a Ge-Au-Ge Unit'. **M. Contel**, K.W. Hellmann, L.H. Gade, I.J. Scowen, M. McPartlin, and M. Laguna, *Inorg. Chem.*, **1996**, 35, 3713.
3. Trinuclear Au_2Ag and Au_2Cu Complexes with Mesityl Bridging Ligands. X-Ray Structure of the One-dimensional Chain Polymer $[(Au(\mu\text{-mes})(AsPh_3)_2Ag)ClO_4]_n$. **M. Contel**, J. Garrido, M.C. Gimeno, P.G. Jones, A. Laguna, and M. Laguna, *Organometallics*, **1996**, 15, 4939.
4. 'Polynuclear Mesityl-gold and -gold-silver Derivatives. Crystal Structure of $[Ag(\mu\text{-dppm})\{Au(\text{mes})\}_2]ClO_4 \cdot 3CH_2Cl_2$ (dppm=bis(diphenylphosphino)methane, mes=mesityl)'. **M. Contel**, J. Garrido, M.C. Gimeno, J. Jiménez, P.G. Jones, A. Laguna, and M. Laguna, *Inorg. Chim. Acta*, **1997**, 254, 157.
5. Triamidostannagold 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. Scowen, and M. McPartlin, *Inorg. Chem.*, **1997**, 36, 2386.
6. Trimethylsilylmethyl Gold (I) Complexes. X-Ray Structure of $[Au(CH_2SiMe_3)(PPh_2CH_2PPh_2Me)]ClO_4 \cdot 0,25CH_2Cl_2$. **M. Contel**, J. Garrido, J. Jiménez, P.G. Jones, M. Laguna, and A. Laguna, *J. Organomet. Chem.*, **1997**, 543, 71.
7. 'Hexanuclear Mercury-Silver Complexes. Novel Coordination for Bridging Mesityl and Triflate Groups'. M. Laguna, M.D. Villacampa, **M. Contel** and J. Garrido, *Inorg. Chem.*, **1998**, 37, 133.
8. 'A silver (I) center solely bonded to four gold (I) atoms'. **M. Contel**, J. Garrido, M.C. Gimeno and M. Laguna, *J. Chem. Soc., Dalton Trans.*, **1998**, 1083.
9. 'Bis(2-diphenylphosphino)phenyl}mercury: a Novel Bidentate Ligand and Transfer Reagent for the $o\text{-C}_6\text{H}_4\text{PPh}_2$ group'. M.A. Bennett, **M. Contel**, D.C.R. Hockless, and L.L. Welling, *Chem. Commun.*, **1998**, 2401.
10. 'A New, Simple Route to Novel Gold Clusters: Structure of an Au_6Ag Wheel with a Gold Rim'. E. Cerrada, **M. Contel**, A.D. Valencia, M. Laguna, T. Gelbrich, and M.B. Hursthouse. *Angew. Chem. Int. Ed.*, **2000**, 39, 2353.
11. 'Cyclometallated Complexes of Ruthenium and Osmium Containing the $o\text{-C}_6\text{H}_4\text{PPh}_2$ ligand'. M.A. Bennett, A.M. Clark, **M. Contel**, C.E.F. Rickard, W.R. Roper, and L.J. Wright. *J. Organomet. Chem.*, **2000**, 601, 299.
12. 'Reactivity of Bis- $[(2,6\text{-bis(dimethylaminomethyl)phenyl)gold(I)}]$, an Unusual Intermolecularly Stabilized Bis(amino)-Aryl-Gold(I) Dimer, Towards Alkyl Halides. X-ray Crystal Structures of its Iodomethane and Methylene Iodide Adducts'. **M. Contel**, D. Nobel, G. van Koten, and A. L. Spek. *Organometallics*, **2000**, 19, 3288.
13. 'Mesityl Gold(III) Complexes. X-ray Structure of Mononuclear $[Au(\text{mes})_2Cl(PPh_3)]$ and the Dimer $[Au(\text{mes})_2Cl]_2$ '. **M. Contel**, A.J. Edwards, J. Garrido, M.B. Hursthouse, M. Laguna, and R. Terroba, *J. Organomet. Chem.*, **2000**, 607, 129.

14. 'Mesityl-Gold(I) Complexes'. M. Laguna, J. Garrido, and **M. Contel**, *Inorg. Synth.*, **2002**, *33*, 181.
15. 'Bis{(2-diphenylphosphino)phenyl}mercury: A P-Donor Ligand and Precursor to Mixed Metal-Mercury (d⁸-d¹⁰) Cyclometalated Complexes Containing 2-C₆H₄PPh₂'. M.A. Bennett, **M. Contel**, D.C.R. Hockless, L.L. Welling, and A.C. Willis. *Inorg. Chem.*, **2002**, *41*, 844.
16. 'A Bis(ortho-amine)aryl-Gold(I) Compound as an Efficient, Nontoxic, Arylating Reagent'. **M. Contel**, M. Stol, M.A. Casado, G.P.M. van Klink, D.D. Ellis, A.L. Spek, and G. Van Koten. *Organometallics*, **2002**, *21*, 4556.
17. Fluorous Biphasic Catalysis: Synthesis and Characterization of Copper (I) and Copper (II) Fluoroponytailed 1,4,7-R_f-TACN and 2,2'-Bipyridine Complexes, and Demonstration of their Catalytic Activity in the Oxidation of Hydrocarbons, Olefins, and Alcohols, Including Mechanistic Implications'. **M. Contel**, C. Izuel, R.H. Fish, M. Laguna, P.R. Villuendas, and P.J. Alonso. *Chem. A. Eur. J.*, **2003**, *9*, 4168.
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20. 'Mn²⁺/Co²⁺/Cu²⁺/Cu⁺ Complexes of Fluoroponytailed R_f-Tris-N-1,4,7-triazacyclononane and R_f-Carboxylate, C₈F₁₇(CH₂)₂COOH. Precatalysts for FBC Alkane, Alkene, and Alcohol Oxidation Chemistry'. J.-M. Vincent, **M. Contel**, M. Laguna, and R.H. Fish. *Handbook of Fluorous Chemistry* (Wiley-VHC). **2004**, *Chap. 11.15*. 394.
21. 'Organometallic Gold(III) and Gold(I) Complexes as Catalysts for the 1,3-Dipolar Cycloaddition to Nitrones: Synthesis of Novel Gold-Nitron Derivatives'. A. Adé, E. Cerrada, **M. Contel**, M. Laguna, P. Merino, and T. Tejero. *J. Organomet. Chem.*, **2004**, *689*, 1788.
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25. 'Fluorous Phosphine Assisted Recycling of Gold Catalysts for Hydrosilylation of Aldehydes'. D. Lantos, **M. Contel**, A. Larrea, D. Szabó, and I.T. Horváth. *QSAR Comb. Sci.*, **2006**, *25*, 719.
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31. 'Water Soluble Phosphane-Gold(I) Complexes. Applications as Recyclable Catalysts in a Three-Component Coupling Reaction and as Anticancer and Antimicrobial Agents'. B.T. Elie, C. Levine, Iban Ubarretxena-Belandia, A. Varela, R. Aguilera, R. Ovalle, and **M. Contel**. *Eur. J. Inorg. Chem.* **2009**, 3421.
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33. 'Orthopalladation of (Z)-2-Aryl-4-Arylidene-5(4H)-Oxazolones. Structure and Functionalization'. G.-D. Roiban, E. Serrano, T. Soler, **M. Contel**, I. Grosu, C. Cativiela, and E.P. Urriolabeitia. *Organometallics*. **2010**, 29, 1428-1435.
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38. 'Reactivity of Unsaturated 5(4H)-oxazolones with Hg(II) Acetate. Synthesis of Methyl N-benzoylamino-3-arylacrylates'. G.-D. Roiban, T. Soler, **M. Contel**, I. Grosu, C. Cativiela, and E.P. Urriolabeitia. *Synth. Commun.* **2012**, 42, 195. Published on line Oct 2011.
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42. 'Organometallic Palladium Complexes with a Water-Soluble Iminophosphorane Ligand as Potential Anticancer Agents' M. Carreira, R. Calvo-Sanjuán, M. Sanaú, I. Marzo, and **M. Contel**. *Organometallics*. **2012**, 31, 5572 (Special issue on Organometallics in Medicine and Biology).

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64. 'Preparation of Titanocene-Gold Compounds Based on Highly Active Gold(I)-N-Heterocyclic Carbene Anticancer Agents: Preliminary *in vitro* Studies in Renal and Prostate Cancer Cell Lines'. N. Curado, N. Gimenez, K. Miachin, M. Aliaga-Lavrijsen, M.A. Cornejo, A.A. Jarzecki, and **M. Contel**. *ChemMedChem*. **2019**, 14, 1086.
65. 'Preclinical Evaluation of an Unconventional Ruthenium-Gold-Based Chemotherapeutic: RANCE-1, in Clear Cell Renal Cell Carcinoma'. B.T. Elie, K. Hubbard, Y. Pechheny, B. Layek, S. Prabha, and **M. Contel**. *Cancer Med*, **2019**, 4304 (open access).
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67. 'Metal-Based Antibody Drug Conjugates. Potential and Challenges in Their Application as Targeted Therapies in Cancer'. V. Del Solar, and **M. Contel**. *J. Inorg. Biochem.*, **2019**, 199, 110780.
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75. 'Promising heterometallic compounds as anticancer agents: Recent studies in vivo'. J.E. López-Hernandez, M. Contel. *Curr. Opin. Chem. Biol*. **2023**, 72, 102250.
76. '5-Nitrofuryl-Containing Thiosemicarbazone Gold(I) Compounds: Synthesis, Stability Studies, and Anticancer Activity'. E. Rodríguez-Arce, E. Gavrilov, X. Alvite, N. Nayeem, I.E. León, M.C. Neary, L. Otero, D. Gambino, C. Olea Azar, **M. Contel**. *ChemPlusChem* **2023**, e202300115. Invited Article Special Issue on Gold Chemistry.
77. 'N-Acetylation of Biodegradable Supramolecular Peptide Nanofilaments Selectively Enhances Their Proteolytic Stability for Targeted Delivery of Gold-Based Anticancer Agents'. Y. Marciano, N. Nayeem, D. Dave, R.V. Ulijn, **M. Contel**. *ACS Biomater. Sci. Eng*. **2023**.
<https://pubs.acs.org/doi/10.1021/acsbiomaterials.3c00312>

Patents Issued

1. 'Titanocene Gold Derivatives Comprising Thiolato Ligands'. **M. Contel**, J. Fernández-Gallardo, B.T. Elie, J.W. Ramos. US Patent 9,315,531 (04/19/2016).
2. 'Arene ruthenium (II) derivatives containing iminophosphorane ligands and their use in cancer therapy'. **M, Contel**, I. Marzo, M, Frik, B.T. Elie. US Patent 9,555,049 B2 (01/31/2017).
3. 'Antibody Drug Conjugates Based on Gold Compounds'. **M. Contel**, N. Curado, J. Lewis, S. Poty. US Patent App. US Patent 11,141,490 (10/12/2021).

Patents Filed

4. 'Biodegradable peptides as nanocarriers for gold-based anticancer agents'. Y. Marciano, R.V. Ulijn, **M. Contel**. US Preliminary Patent (63/489,659). Filed on 03/10/2023.