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Publication list

Updated January 2010

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Invited lectures (international meetings and visits abroad) (72)	11
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Publication list

2010

(79) Preparation of $Ru(CO)_2(PPh_3)_3$ and its precursor $Ru(CO)_3Cl_2(thf)$

Benhamou, L.; César, V. ; Lugan, N.; Lavigne, G.

Inorganic Syntheses, in press

(78) One-Pot preparation of $Ru_3(CO)_{12}$ from $RuCl_3 \cdot 3H_2O$ (book chapter)

Lavigne, G.; Saccavini, C.; Chauvin, R.

[Inorganic Experiments, J. Derek Woolins \(Editor\) Wiley ISBN: 978-3-527-32472-9 \(3rd Edition, 2010, 391-395\)](#)

(77) Reprogramming of a malonic N-heterocyclic carbene: a simple backbone modification with dramatic consequences on the ligand's donor properties

César, V. ; Lugan, N.; Lavigne, G.

[European Journal of Inorganic Chemistry, 2010, 361-365](#)

2009

(76) Chelation-assisted reactions of phosphine- and olefin-tethered imidazolium derivatives and their affiliated N-heterocyclic carbenes with Roper's complex $Ru(CO)_2(PPh_3)_3$.

Benhamou, L.; Wolf, J.; César, V. ; Labande, A. ; Poli, R.; Lugan, N.; Lavigne, G.

[Organometallics, 2009, 28, 6981-6993](#)

(75) Imidazol-2-ylidene-4-olate: an anionic N-heterocyclic carbene pre-programmed for further derivatization.

Benhamou, L.; César, V. ; Gornitzka, H.; Lugan, N.; Lavigne, G.

[Chemical Communications, 2009, 4720-4722](#)

2008

(74) New insight into the reactivity of pyridine-functionalized phosphine complexes of Ru(II) with respect to olefin metathesis and transfer hydrogenation.

Mothes, E.; Luquin, M. A. ; Mathieu, R. ; Lugan, N.; Lavigne, G.

[Organometallics, 2008, 27, 1193-1206. \(9 citations\)](#)

(73) Directed synthesis of allene complexes via reaction of non-heteroatom-substituted manganese alkynyl carbene complexes with nucleophiles.

Sentets, S.; Serres, R.; Ortin, Y.; Lugan, N.; Lavigne, G.

[Organometallics, 2008, 27, 2078.](#)

(72) A stable anionic N-heterocyclic carbene and its zwitterionic complexes.

César, V. ; Lugan, N. ; Lavigne, G.

[J. Am. Chem. Soc. 2008, 130, 11286. \(9 citations\)](#)

(71) Generation of η^1 - α -phosphino carbene complexes and their evolution: New light on relevant isomerisation pathways,

Valyaev, D.; Lugan, N.; Lavigne, G.; Ustynyuk, N. A.

[Organometallics](#), 2008, 27, 5180

2007

(70) Proton reduction catalysis by manganese vinylidene and allenylidene complexes

Valyaev, D. A.; Peterleitner, M. G.; Semeikin, O. V.; Utegenov, K. I.; Ustynyuk, N. A.; Sournia-Saquet, A.; Lugan, N.; Lavigne, G.

[Journal of Organometallic Chemistry](#) 2007, 692, 3207.

(69) Snapshot of a Chelation-assisted C-H/Alkyne coupling: A Ruthenium Complex Caught in the Act of C-C Bond Formation.

Benhamou, L.; César, V.; Lugan, N.; Lavigne, G.

[Organometallics](#), 2007, 26, 4673.

2006

(68) Six-coordinate Alkynylidiphosphine Ruthenium(II) Complexes: Synthesis, Structure and Catalytic Activity as ROMP Initiators.

Bernechea, M.; Lugan, N.; Gil, B.; Lalinde, E.; Lavigne, G.

[Organometallics](#) 2006, 25, 684-692

(67) Advanced fine-tuning of Grubbs/Hoveyda olefin metathesis catalysts: a further step toward an optimum balance between antinomic properties.

Bieniek, M.; Bujok, R.; Cabaj, M.; Lugan, N.; Lavigne, G.; Artl, D.; Grela, K.

[J. Am. Chem. Soc.](#) 2006, 128, 13652 (43 citations)

2005

(66) Instant "Base-Promoted" Generation of Roper's type Ru(0) complexes $Ru(CO)_2(PR_3)_3$ from a simple carbonylchlororuthenium(II) precursor.

Sentets, S.; Rodriguez-Martinez, M. C.; Vendier, L.; Donnadieu, B.; Huc, V.; Lugan, N.; Lavigne, G.

[J. Am. Chem. Soc.](#) 2005, 127, 14554 (9 citations)

2004

(65) Dodecacarbonyltriruthenium, $Ru_3(CO)_{12}$

Fauré, M.; Saccavini, C.; Lavigne, G.

[Inorganic Syntheses](#) 2004, 34, 110-115

2003

(64) One-Pot preparation of $Ru_3(CO)_{12}$ from $RuCl_3 \cdot 3H_2O$

Lavigne, G.; Saccavini, C.; Chauvin, R.

[Inorganic Experiments](#), J. Derek Woolins (Editor) Wiley ISBN: 3-527-30510-6, 2003, 347-351.

(63) *New insight into a convenient "base-promoted" synthesis of Ru₃(CO)₁₂*

Fauré, M.; Saccavini, C.; Lavigne, G.

[Chem. Commun. 2003, 1578](#) (10 citations)

(62) *Ether-induced rate-enhancement of Mo-catalyzed alkyne metathesis under mild conditions.*

Huc, V.; Weihofen, R.; Martin-Jimenez, I.; Oulié, P.; Lepetit, C.; Lavigne, G. ; Chauvin, R.

[New J. Chem. 2003, 27, 1412-1414](#) (12 citations)

2002

(61) *Parallel approaches to mono- and bis-propargylic activation using Co₂(CO)₈ and [PPN][Ru₃(μ-Cl)(CO)₁₀]*

Soleilhavoup, M.; Saccavini, C.; Lepetit, C.; Lavigne, G.; Maurette, L.; Donnadiou, B.; Chauvin, R.

[Organometallics, 2002, 21,871-883](#) (15 citations)

2001

(60) *Formation of Cyclopentadienyl and Ruthenacyclopentadienyl Derivatives via Ynenyl-diyne and ynenyl-alkyne Coupling onto a Triruthenium Cluster Core.*

Cabeza, J. A.; del Rio, I.; Garcia Granda, S.; Lavigne, G.; Lugan, N.; Moreno, M.; Nombel, P.; Perez-Priede, M.; Riera, V.; Rodriguez, A.; Suárez, M.; van der Maelen, J. F.

[Chemistry, Eur. J. 2001, 7, 2370-2381](#) (20 citations)

1999

(59) *A cluster-mediated conversion of diphenylacetylene into α-phenyl cinnamaldehyde. Construction of a catalytic hydroformylation cycle based on isolated intermediates.*

Nombel, P.; Lugan, N.; Donnadiou, B. Lavigne, G.

[Organometallics 1999, 18, 187-196](#) (32 citations)

(58) *Reactions of a transient hydrido chloro-carbonyl ruthenium complex with ethylene, alkynes and CO; contrasting reactions of the new anion [Ru₂(CO)₄Cl₅]⁻.*

Faure, M.; Maurette, L.; Donnadiou, B.; Lavigne, G.

[Angew. Chem., Int. Ed. Engl. 1999, 38, 518-522.](#) (27 citations)

(57) Review: *Effects of halides and related ligands on reactions of ruthenium carbonyl complexes (Ru(O)-Ru(II)).*

Lavigne, G.

[Eur. J. Inorg. Chem. 1999, 917](#) (28 citations)

(56) *Novel polymeric carbonylhaloruthenium (I) polyanions: rational design and re-organization in the presence of CO₂ and H₂O.*

Maurette, L.; Donnadiou, B.; Lavigne, G.

[Angew. Chem., Int. Ed. Engl. 1999, 38, 3710-3713](#) (12 citations)

1998

(55) Review (book chapter): *Activation of ruthenium clusters for use in catalysis. Approaches and problems.*

Lavigne, G.; De Bonneval, B.

[Catalysis by Di- and Polynuclear Metal Cluster Complexes.](#) R. D. Adams, F. A. Cotton Eds, John Wiley & Sons, Inc., 1998, Chapter 2 p 39-93 ISBN 0-471-23930-5 (*ouvrage non répertorié sur ISI*)

1997

(54) Generation of alkyl(dicarbonyl)chlororuthenium dimers in the ruthenium-catalyzed addition of ethylene and alkyl formates.

Fabre, S.; Kalck, P.; Lavigne, G.

[Angew. Chem., Int. Ed. Engl. 1997, 36, 1092-1095](#) (21 citations)

1996

(53) Kinetic Studies on Reactions of Activated Ruthenium Carbonyl Clusters with Phosphorus Ligands.

Shen, J.-K.; Basolo, F.; Nombel, P.; Lugan, N.; Lavigne, G.

[Inorg. Chem. 1996, 35, 755-759](#) (15 citations)

(52) Self-Activation of a Cluster-Bound Alkyne Toward Carbon-Carbon Bond Forming Reactions.

Rivomanana, S.; Mongin, C.; Lavigne, G.

[Organometallics 1996, 15, 1195-1207](#) (31 citations)

1995

(51) Promoter Effect of Chloride ions on the Ruthenium Catalyzed Hydroesterification of Ethylene with Methyl Formate. Design and Evaluation of New Poly- and Mononuclear Catalyst Precursors.

Lugan, N.; Lavigne, G.; Soulié, J. M.; Fabre, S.; Kalck, P.; Saillard, J.-Y.; Halet, J. F.

[Organometallics 1995, 14, 1712-1731](#) (32 citations)

(50) [PhP(S)(NMeNH₂)₂]ZnCl₂: a reagent for the synthesis of polymetallic complexes. X-ray structure of the electroactive compound [PhP(S)(NMeN=CHC₅H₄FeCp)₂]ZnCl₂.

Delavaux-Nicot, B.; Douziech, B.; Mathieu, R.; Lavigne, G.

[Inorg. Chem. 1995, 34, 4256-4261](#) (6 citations)

1994

(49) Using phosphohydrazides as building blocks to multi redox polymetallic compounds containing ferrocenyl groups. Electrochemical and NMR behavior in solution.

Delavaux-Nicot, B.; Mathieu, R.; De Montauzon, D.; Lavigne, G.; Majoral, J. P.

[Inorg. Chem. 1994, 33, 434-443](#) (18 citations)

(48) Vinyl Group Transfer via insertion: Cluster-Mediated Production of Polyphenylacetylene, Enynes and a-b unsaturated Aldehydes.

Nombel, P.; Lugan, N.; Mulla, F.; Lavigne, G.

[Organometallics 1994, 13, 4673-4676](#) (35 citations)

1993

(47) Framework Expansion versus Edge Opening in 50-e⁻ Phosphido-bridged Triruthenium Complexes. A Case Study.

Lugan, N.; Fabre, P. L.; De Montauzon, D.; Lavigne, G.; Bonnet, J.-J.; Saillard, J.-Y.; Halet, J. F.

[Inorg. Chem. 1993, 32, 1363-1369](#) (30 citations)

(46) Review : Base-Promoted Ruthenium Carbonyl Cluster Complexes. From Fundamental Reactions to Catalysis.

Lavigne, G.; Lugan, N.; Rivomanana, S.; Mulla, F.; Soulié, J. M.; Kalck, P.

[Journal of Cluster Science 1993, 4, 49-58](#) (ouvrage non répertorié sur ISI)

1992

(45) Activation of Tri-Ruthenium Carbonyl Complexes by Incorporation of Hemi-labile Ancillary Ligands Containing Alkoxy, Amido or Mercapto Groups. Generation of a Reactive Alkenyl Species.

Lugan, N.; Laurent, F.; Lavigne, G.; Bonnet, J.-J.

[Organometallics, 1992, 11, 1351-1363](#) (51 citations)

(44) Structural Characterization of 1,2,3- $\{\mu$ -[phenylpyridyl]phosphido]-P,N}-1,2- $\{m$ -iodo}-1,1,1,2,2,2,3,3,3-nonacarbonyl-triangulo-triruthenium.

Lugan, N.; Lavigne, G.; and Bonnet, J.-J.

[Acta Crystallographica, 1992, C48, 999-1002](#) (non répertorié sur ISI)

(43) New Polymetallic Ruthenium Carbonyl Halide Complexes: Exotic Combinations of Electron Deficient Skeletons with Electron Rich Anions. Their Potential Interest in Ethylene Hydroesterification.

Lavigne, G.; Lugan, N.; Kalck, P.; Soulié, J. M.; Lerouge, O.; Saillard, J.-Y.; Halet, J. F.

[J. Am. Chem. Soc. 1992, 114, 10669](#) (32 citations)

1991

(42) Halide-Promoted CO Labilization Applied to the Synthesis of Alkyne-Substituted Derivatives of $Ru_3(CO)_{12}$.

Rivomanana, S.; Lavigne, G.; Lugan, N.; Bonnet, J.-J.

[Organometallics 1991, 10, 2285-2297](#) (51 citations)

(41) A Highly Reactive Tri-Ruthenium Cluster Complex Bearing an Alkyne Coordinated in the "Perpendicular Mode".

Rivomanana, S.; Lavigne, G.; Lugan, N.; Bonnet, J.-J.

[Inorg.Chem. 1991, 30, 4110-4112](#) (24 citations)

1990

(40) Review: Cluster Assisted Ligand Transformations. **(book chapter)**

Lavigne, G.

["The Chemistry of Metal Clusters"](#), Adams, R. D.; Shriver, D.; Kaesz, H. D. (Editors.); Verlag Chemie; 1990, Chapter 5, 201-302 (ouvrage non répertorié sur ISI)

(39) Nucleophilic Activation of Tri-Ruthenium Carbonyl Complexes by Semi-Labile Ancillary Ligands. Cluster-Assisted Co-dimerization of Alkynes and Ethylene to give 1,2-Disubstituted-3,4-Butadienes.

Lugan, N.; Laurent, F.; Lavigne, G.; Newcomb, T. P.; Liimatta, E. W.; Bonnet, J.-J.

[J. Am. Chem. Soc. 1990, 112, 8607](#) (51 citations)

1989

(38) Tri-hydrido Mixed Metal Complexes $(\mu-H)_3M_3Ni(C_5H_5)(CO)_9$ ($M = Ru, Os$)

Bergounhou, C.; Bonnet, J. J.; Lavigne, G.; Papageorgiou, F.

[Inorganic Syntheses, 1989, 26, 360-365](#) (2 citations)

(37) Dodecacarbonyltetra- μ -hydrido-Tetraruthenium, $Ru_4(\mu-H)_4(CO)_{12}$.

Bruce, M. I.; and Williams, M. L.; checked by Lavigne, G. and Arliguie, T.

[Inorganic Syntheses, 1989, 26, 262-263](#) (12 citations)

(36) Tri- and Tetra-nuclear Carbonyl-Ruthenium Cluster Complexes Containing Isocyanide, Tertiary Phosphine and Phosphite Ligands. Radical Ion-Initiated Substitution of Metal Cluster Carbonyl Complexes...

Bruce, M. I.; Nicholson, B. K.; Williams, M. L.; checked by Lavigne, G. and Arliguie, T.

Inorganic Syntheses **1989**, 26, 271-280 (non répertorié sur ISI)

(35) Halide Promoted Reactions of Alkynes with $Ru_3(CO)_{12}$.

Rivomanana, S.; Lavigne, G.; Lugan, N.; Bonnet, J.-J.; Yanez, R.; and Mathieu, R.

J. Am. Chem. Soc. **1989**, 111, 8959 (42 citations)

1988

(34) Evidence for the Lability of a Bridging Phosphido Ligand under Hydrogen Atmosphere; Reactions of the Cluster Complex $Ru_3(\mu_3-P(C_6H_5)(C_5H_4N))(\mu-P(C_6H_5)_2)(CO)_8$.

Lugan, N.; Lavigne, G.; Bonnet, J.-J.; Réau, R.; Neibecker, D.; Tkatchenko, I.

J. Am. Chem. Soc. **1988**, 110, 5369-5376 (56 citations)

1987

(33) High Yield Synthesis of Sulfido-triruthenium Cluster Complexes Containing Bis(diphenyl - phosphino)methane.

Fompeyrine, P.; Lavigne, G.; Bonnet, J. J.

J. Chem. Soc. Dalton Trans, **1987**, 91-95 (26 citations)

(32) Cluster Promoted Cleavage of a Phosphorus-Carbon Bond Under Ambient Conditions. Synthesis, Structure and Stereospecific Substitution Reactions of the Acyl Cluster Complex $Ru_3(\mu-C(O)(C_6H_5))(\mu_3-P(C_6H_5)(C_5H_4N))(CO)_9$.

Lugan, N.; Lavigne, G.; Bonnet, J.-J.

Inorg. Chem., **1987**, 26, 585-590 (34 citations)

(31) Intermolecular Association of Cyanide Substituted Triruthenium Carbonyl Cluster Anions: Synthesis and Crystal Structure of $[PPN][Ru_6(CN)_2(CO)_{20}]$.

Lavigne, G.; Lugan, N.; Bonnet, J.-J.

J. Chem. Soc. Chem. Commun., **1987**, 957-958 (28 citations)

(30) Catalytic Displacement of CO by Phosphine Ligands from $Ru_3(CO)_{12}$ Promoted by Salts of Hydride Donors.

Lavigne, G.; Lugan, N.; Bonnet, J.-J.

Inorg. Chem., **1987**, 26, 2345-2347 (18 citations)

1986

(29) Structural Characterization of the Edge double-bridged Triruthenium Cluster Complex $Ru_3(\mu-Cl)_2(CO)_8(PPh_3)_2$.

Lavigne, G.; Papageorgiou, F.; Bonnet, J.-J.

J. Cryst. Spectr. Res., **1986**, 16, 475-482 (périodique non répertorié sur ISI)

(28) Stepwise Oxidative Cleavage of Bis(diphenylphosphino)methane in the Substituted Ruthenium Clusters $Ru_3(CO)_8(dppm)_2$ and $Ru_4(\mu-H)_4(CO)_{10}(dppm)$.

Bergounhou, C.; Bonnet, J. J.; Fompeyrine, P.; Lavigne, G.; Lugan, N.; Mansilla, F.

Organometallics **1986**, 5, 60-66 (54 citations)

(27) *Aspects of the Chemistry of μ_3 -oxo Triruthenium Clusters Derived from $Ru_3(\mu_3-O)(\mu_3-CO)(CO)_5(dppm)_2$.*

Colombie, A.; Bonnet, J. J.; Fompeyrine, P.; Lavigne, G.; Sunshine, S.

Organometallics, **1986**, *5*, 1154-1159 (28 citations)

(26) *Reactivity of Trinuclear Ruthenium Complexes Involving Bis(diphenylphosphino) methane as a Bridging Ligand: Facile Declusterification of $Ru_3(CO)_8(dppm)_2$ in the Presence of Iodine.*

Colombié, A.; Lavigne, G.; Bonnet, J. J.

J. Chem. Soc. Dalton Trans, **1986**, 899-901 (25 citations)

(25) *Structure of Decacarbonyl-tetra- μ -hydrido- μ -[methylenebis(diphenylphosphine)-P,P']tetrahedro-tetraruthenium.*

Mansilla, F.; Bonnet, J.-J.; Lavigne, G.

Acta Cryst. **1986**, *C42*, 1011-1014 (non répertorié sur ISI)

(24) *Unusual Route to an Acyl Complex in Cluster Chemistry: Synthesis and Reactivity of $Ru_3(\mu-C(O)(C_6H_5))(\mu_3-P(C_6H_5)(C_5H_4N))(CO)_9$*

Lugan, N.; Lavigne, G.; Bonnet, J.-J.

Inorg. Chem., **1986**, *25*, 7-9 (27 citations)

(23) Review *Cluster Reactivities.* (**book chapter**)

Lavigne, G.; Kaesz, H. D.

"*Metal Clusters in Catalysis*", Gates, B. C.; Guzzi, L.; Knözinger, H. (Editors.); Elsevier, Amsterdam, **1986**, Chapter IV, 43-88 (ouvrage non répertorié sur ISI)

1985

(22) *Synthesis, Catalytic Activity and Molecular structure of $(\mu_3-CCH_3)Co(CO)_7(dppm)$.* Balavoine,

G.; Collin, J.; Bonnet, J.- J.; Lavigne, G.

J. Organomet. Chem. **1985**, *280*, 429-439 (44 citations)

1984

(21) *Synthesis and Structural Characterization of a New Ruthenium-Gold Cluster Complex.*

Lavigne, G.; Papageorgiou, F.; Bonnet, J.- J.

Inorg. Chem. **1984**, *23*, 609-613 (33 citations)

(20) *Dehalogenation of Binuclear Arene-ruthenium Complexes...*

Coleman, A. W.; Jones, D. F.; Dixneuf, P. H.; Brisson, C.; Bonnet, J. J.; Lavigne, G.

Inorg. Chem. **1984**, *23*, 952-956 (88 citations)

(19) *Effects of Highly Dissociated Salts in Stoichiometric and Catalytic Reactions on Ru Cluster Complexes.*

Lavigne, G.; Kaesz, H. D.

J. Am. Chem. Soc. **1984**, *106*, 4647 (115 citations)

1983

(18) *The Complexation of Triangular Faces of Tetranuclear Species by the Tripod Ligand $HC(PPh_2)_3$ and $HC(AsPh_2)_3$. Molecular structure of $(toluene)(HC(PPh_2)_3)Co_4(CO)_6$.*

Bahsoun, A. A.; Osborn, J. A.; Voelker, C.; Bonnet, J.- J.; Lavigne, G.

Organometallics, **1983**, *2*, 1114-1120 (85 citations)

(17) *Synthesis and Spectroscopic Characterization of Trihydrido Mixed-Metal Clusters $(\mu\text{-H})_3\text{M}_3\text{Ni}(\text{C}_5\text{H}_5)(\text{CO})_9$ ($\text{M} = \text{Ru}, \text{Os}$). Low Temperature X-ray Diffraction Study of the Osmium Derivative.*

Lavigne, G.; Papageorgiou, F.; Bergounhou, C.; Bonnet, J.- J.

Inorg. Chem. **1983**, *22*, 2485-2491 (31 citations)

(16) *X-Ray and Neutron Diffraction Studies of a Hydrido-Triruthenium Cluster Complex...*

Lugan, N.; Savariault, J. M.; Lavigne, G.; Bonnet, J.-J.

J. Cryst. Spectr. Res., **1983**, *13*, 389-405 (périodique non répertorié sur ISI)

1982

(15) *Structural Characterization of a Substituted Derivative of $\text{Ru}_3(\text{CO})_{12}$: Bis- μ -bis-(diphenylphosphino)methane Triangulo Triruthenium.*

Lavigne, G.; Lugan, N.; Bonnet, J.- J.

Acta. Cryst. **1982**, *B38*, 1311-1316. (non répertorié sur ISI)

(14) *Aspects of The Chemistry of Substituted Ruthenium Cluster Involving Bis(diphenyl- phosphino)methane as Bridging Ligands: Reactivity Towards Hydrogen and Potential Applications in Catalysis: Crystal and Molecular Structure of $(\mu\text{-H})_2\text{Ru}_3(\text{CO})_6(\mu\text{-P}(\text{C}_6\text{H}_5)\text{CH}_2\text{P}(\text{C}_6\text{H}_5)_2)$ and $(\mu\text{-H})_2\text{Ru}_3(\text{CO})_6(\mu\text{-As}(\text{C}_6\text{H}_5)\text{CH}_2\text{As}(\text{C}_6\text{H}_5)_2)$*

Lavigne, G.; Lugan, N.; Bonnet, J. -J.

Organometallics, **1982**, *1*, 1040-1050. (79 citations)

1981

(13) *Synthesis and Molecular Structure of Bis-(tetrathiotungstate (VI)-S,S') oxo-tungstate (IV), $[(\text{C}_6\text{H}_5)_4\text{P}]_2(\text{WO}(\text{WS}_4)_2)^{2-}$.*

Secheresse, F.; Lavigne, G.; Jeannin, Y. Lefebvre, J.

J. Coord. Chem. **1981**, *11*, 11-16. (18 citations)

(12) *Oxidative Addition Reaction of Bis(diphenylphosphino)methane with $\text{Ru}_3(\text{CO})_{12}$. Formation of a "Capped" Phosphinidene Triruthenium Carbonyl Cluster.*

Lavigne, G.; Bonnet, J.- J.

Inorg. Chem. **1981**, *20*, 2713-2716. (68 citations)

(11) *Synthesis and Structural Characterization of a New Ruthenium Oxygen Cluster System.*

Lavigne, G.; Lugan, N.; Bonnet, J.- J.

Nouv. J. Chim. **1981**, *5*, 423-425. (36 citations)

1979

(10) *A New Example of Very Strong Antiferromagnetic Coupling Between Cu(II) Ions Away From Each Other.*

Chauvel, C.; Girerd, J. J.; Jeannin, Y.; Kahn, O.; Lavigne, G.

Inorg. Chem. **1979**, *18*, 3015-3020. (66 citations)

(9) *Unusual Sulfur Insertion in a Copper(I) mercaptobenzothiazole Complex...*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

Inorg. Chem. **1979**, *18*, 3528-3535. (40 citations)

1978

(8) *Structural Study of Hexacarbonyl-di-mercaptopbenzothiazolato-di-manganese.*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

J. Cryst. Mol. Struct. **1978**, *7*, 241-249. (*périodique non répertorié sur ISI*)

(7) *Structural Study of Transition- Metal Hydride Complexes in Relation to Corrosion Inhibition. Crystal and Molecular Structure of $Ru_3H(CO)_{10}(SCH_2COOH)$ and $Ru_3H(CO)_9(C_7H_4NS_2)$.*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

Inorg. Chem. **1978**, *17*, 2103-2110. (*56 citations*)

1976

(6) *A Study of the Protective Action of Corrosion Inhibitors by Crystal Chemistry (I)*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

Trans. Met. Chem. **1976**, *1*, 186-191. (*35 citations*)

(5) *A Study of the Protective Action of Corrosion Inhibitors by Crystal Chemistry (II)*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

Trans. Met. Chem. **1976**, *1*, 192-195. (*21 citations*)

(4) *A Study of the Protective Action of Corrosion Inhibitors by Crystal Chemistry (III)*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

Trans. Met. Chem. **1976**, *1*, 195-199. (*16 citations*)

1974

(3) *Infrarouge en chimie des solides.* **Constant, G.; Daran, J. C.; Lavigne, G.; Jeannin, S.; Jeannin, Y.**

Annales de Chimie France., **1974**, *T7*, 67-74 (Masson Editeur) (*3 citations*)

1972

(2) *Etude cristallographique du complexe 1.1 du fer (II) et de l'acide thioglycolique.*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

J. Organomet. Chem. **1972**, *40*, 187-196. (*9 citations*)

(1) *Complexes entre le ruthénium carbonyle et le mercaptopbenzothiazole.*

Jeannin, S.; Jeannin, Y.; Lavigne, G.

C. R. Acad. Sci. **1972**, *279C*, 447-449. (*non répertorié sur ISI*)

Invited lectures

(Invited lectures printed in blue were presented at international conferences)

- IL1** *Etude de quelques complexes organométalliques en relation avec l'inhibition de la corrosion.*
G. Lavigne (conférence invitée)
25-30 septembre 1977 *Concoord VIII*, Strasbourg.
- IL2** *Les Ligands phosphorés au Laboratoire de Chimie de Coordination. Un exemple de ligand assembleur: le bis(diphénylphosphino)méthane.*
G. Lavigne - 21 Juin 1983 - Société Française de Chimie, Toulouse, .
- IL3** *Nouveaux catalyseurs de substitution du monoxyde de carbone dans les complexes du ruthénium.*
G. Lavigne - 4 décembre 1984 - Conférence au Laboratoire de Chimie de Coordination, Toulouse,
- IL4** *Evidence for Labile Metal-Metal and Metal-Phosphorus Interactions in Phosphido-Bridged Cluster Complexes.*
J. J. Bonnet, N. Lugan, G. Lavigne - June 8-13, 1987 - 11th Summer School on Coordination Chemistry, Karpacz, Poland. (texte de la conférence édité dans "Coordination Chemistry and Catalysis", J. Z. Ziolkowski, Ed. World Scientific Publishing Co., 1998 ISBN 9971-50-488-X)
- IL5** *Evidence for Labile Metal-Metal and Metal-Phosphorus Interactions in Phosphido-Bridged Cluster Complexes.*
J. J. Bonnet, N. Lugan, G. Lavigne. - August 30-Sept.7, 1987 - 7th Fechem Conference on Organometallic Chemistry; Toledo.
- IL6** *Transformation de substrats organiques sur des clusters activés par des promoteurs.*
G. Lavigne, - 22 Novembre, 1989 - Université de Neuchâtel (Prof. **Süss-Fink**), Suisse
- IL7** *Transformation de substrats organiques sur des clusters activés par des promoteurs.*
G. Lavigne, - 23 Novembre 1989 - Université de Lausanne (Prof. **Floriani**), Suisse, .
- IL8** *Transformations de substrats organiques sur des complexes polymétalliques (I-IV).*
G. Lavigne, - Juin 1991 - Série de 4 conférences, enseignement de 3^{ème} cycle, Univ. Neuchâtel.
- IL9** *Selective transformations of alkynes by activated ruthenium carbonyl cluster complexes.*
G. Lavigne, June 6, 1991 - University of Munich (Prof. **Beck**), Germany.
- IL10** *Selective transformations of alkynes by activated ruthenium carbonyl cluster complexes.*
G. Lavigne, -June 7, 1991- Tech. Univ. of Munich, Garching (Prof. **Herrmann**), Germany, .
- IL11** *Selective transformations of alkynes by activated ruthenium carbonyl cluster complexes.*
G. Lavigne, - June 10, 1991 - University of Freiburg (Prof. **Vahrenkamp**), Germany,
- IL12** *On the way to selective reactions of ruthenium carbonyl clusters with organic substrates.*
G. Lavigne, - September 16, 1991 - University of Heidelberg (Prof. **Huttner**), Germany.
- IL13** *On the way to selective reactions of ruthenium carbonyl clusters with organic substrates.*
G. Lavigne, -September 17, 1991 -Univ. of Erlangen-Nurnberg (Prof. **Dahlenburg**), Germany.

- IL14** *Formation de liaisons carbone-carbone assistée par des complexes polymétalliques du ruthénium. De la modélisation au système catalytique.*
G. Lavigne, - 25 Juin 1992 - Université de Rennes (Prof **Dixneuf**).
- IL15** *Base-Promoted Ruthenium Carbonyl Cluster Complexes: From Fundamental reactions to Catalysis.*
G. Lavigne, N. Lugan, S. Rivomanana, F. Mulla, J. M. Soulié, P. Kalck,
July 26-31, 1992 - Invited lecture at the International Seminar: "Organic Chemistry on Metal Clusters and Surfaces", S. Vittoria d'Alba, Italy .
- IL16** *Productive Cluster Chemistry. Is it just a dream ?*
G. Lavigne. - August 26-September 2, 1993 - European Research Conferences: Metal Clusters in Chemistry. Lagonissi (near Athens), Greece, Lagonissi, Greece.
- IL17** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne. - March 18, 1994 - University of California (Prof. **Kaes**z), Los Angeles (UCLA), USA.
- IL18** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne. - March 24, 1994 - University of Minnesota (Prof. **Gladfel**ter), Minneapolis, USA.
- IL19** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne, - March 28, 1994 - Northwestern University (Prof. **Basolo**), Evanston, Illinois, USA.
- IL20** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne, - March 31, 1994 - University of Columbus (Prof. **Shore**), Ohio, USA.
- IL21** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne, - April 5, 1994 - Pennstate University (Prof. A. **Sen**), Pennsylvania, USA.
- IL22** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne, - April 6, 1994 - University of North Carolina (Prof. **Brookhart**), Chapel Hill, USA.
- IL23** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne, - April 8, 1994 - University of South Carolina (Prof. **Adams**), Columbia, SC., USA.
- IL24** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne, - April 11, 1994 - State University of New York at Stony Brook (Prof. **Ojima**), USA.
- IL25** *Selective Base-Promoted Reactions of Ruthenium Carbonyl Complexes: From Fundamental Reactions to Catalysis*
G. Lavigne, - April 13, 1994 - EXXON Research Center, Annandale, NJ, USA (Dr **Horvath**).

- IL26** *Cluster-Mediated Synthesis of High Value Added Organic Products*
G. Lavigne, Conférence invitée, [Gordon Research Conference](#), Inorganic Chemistry 22-28 Juillet 1995, Brewster Academy, Wolfeboro, New Hampshire, USA.
- IL27** *Cluster-Mediated Syntheses of High Value Added Organic Products*
G. Lavigne - February 26, **1996** - National Institute for Materials and Chemical Research (Dr. **Tanaka**), Tsukuba, Japan. ,
- IL28** *Cluster-Mediated Syntheses of High Value Added Organic Products*
G. Lavigne, - February 28, **1996** - Osaka University (Prof. **Nakamura**), Osaka, Japan.
- IL29** *Promoter Effect of Chloride ions on the Hydroesterification of Ethylene with Methyl Formate.*
G. Lavigne, - February 29, **1996** -
Osaka University (Prof. **Murahashi**), Toyonaka campus, Osaka, Japan.
- IL30** *Promoter Effect of Chloride ions on the Hydroesterification of Ethylene with Methyl Formate.*
G. Lavigne - March 6, **1996** - Kyoto University (Prof. **Mitsudo**), Kyoto, Japan.
- IL31** *Cluster-Mediated Syntheses of High Value Added Organic Products*
G. Lavigne, - March 8, **1996** - Tokyo Institute of Technology (Prof. **Suzuki**), Tokyo, Japan. ,
- IL32** *Cluster-Mediated Syntheses of High Value Added Organic Products*
G. Lavigne, - March 11, **1996** - Tokyo Instit. of Technology (Prof. **Moro-oka**), Yokohama, Japan.
- IL33** *Cluster-Mediated Syntheses of High Value Added Organic Products*
G. Lavigne, - March 13, **1996** - University of Tokyo (Prof. **Hidai**), Japan,.
- IL34** *Promoter Effect of Chloride ions on the Hydroesterification of Ethylene with Methyl Formate.*
G. Lavigne, - March 14, **1996** - Institute of Physical and Chemical Research (RIKEN) (Prof. **Wakatsuki**), Tokyo, Japan.
- IL35** *Promoter Effect of Chloride ions on the Hydroesterification of Ethylene with Methyl Formate.*
G. Lavigne, - March 15, **1996** - Waseda University (Prof. **Yamamoto**), Tokyo, Japan.
- IL36** *Clusters et complexes mono-nucléaires du ruthénium au banc d'essai d'une réaction catalytique.*
G. Lavigne, - November 18, **1997** - Laboratoire Interactions Moléculaires et Réactivité Chimique et Photochimique, (Professeur **Lattes**) Université Paul Sabatier, Toulouse.
- IL37** *Analyse d'un système catalytique d'hydro-esterification de l'éthylène par les complexes du ruthénium. Nouvelles perspectives.*
G. Lavigne, - 26 Novembre **1997** - Ecole Nationale Supérieure de Chimie de Paris et Institut Curie (Prof. J. P. **Genet**).
- IL38** *Base-promoted formation of alkyl or alkenyl chloro-ruthenium complexes from a simple Ru(II) precursor*
G. Lavigne, C. Andres, Award symposium in the Honor of Herbert D. **Kaes** 29 Mars 1998
215th ACS Meeting, Dallas, Texas, USA, (book of abstracts, paper INOR 041)

- IL39** *Chimie des complexes chloro-ruthenium (II) : nouvelles observations sur les pas des pionniers.*
G. Lavigne, - 10 Décembre 1998- Société Française de Chimie, Journées de la Division de Chimie de Coordination (10-11 Décembre) Université de Rennes, Campus de Beaulieu,
- IL40** *Textbook reactions of carbonylhalo-ruthenium (II) complexes: in the footsteps of the pioneers.*
G. Lavigne, - May 25, 1999 - CNR Florence (Prof. C. Bianchini, Dr. M. Peruzzini), Italie.
- IL41** *Textbook reactions of carbonylhalo-ruthenium (II) complexes: in the footsteps of the pioneers.*
G. Lavigne, - May 27, 1999 - Department of Industrial chemistry (Prof. Fachinetti) Université de Pise, Italie.
- IL42** *Renouveau des métaux carbonyles: mon favori, le ruthénium.*
G. Lavigne, - 2 Décembre 1999 - LCOO (Prof. Astruc) Université de Bordeaux I.
- IL43** *Textbook Reactions of Halocarbonyl ruthenium (II) complexes: in the footsteps of the pioneers.*
G. Lavigne, - January 31, 2000 - University of Göttingen (Prof. Roesky), Germany.
- IL44** *Variations on a theme by Hieber.*
G. Lavigne, - February 1, 2000 - University of Marburg (Prof. Sondermeyer), Germany.
- IL45** *Variations on a theme by Hieber.*
G. Lavigne, - February 3, 2000 - University of Bonn (Prof. Niecke), Germany.
- IL46** *Variations on a theme by Hieber.*
G. Lavigne, - February 4, 2000 - University of Freiburg (Prof. Janiak), Germany.
- IL47** *Variations on a theme by Hieber.*
G. Lavigne, - February 7, 2000 - T.U. Munich (Prof. Dr. Herrmann, Prof. Dr. Schmidbaur).
- IL48** *Variations on a theme by Hieber.*
G. Lavigne, - February 8, 2000 - University of Erlangen (Prof. L. Dahlenburg), Germany.
- IL49** *Variations on a theme by Hieber.*
G. Lavigne, - February 9, 2000 - MPI Muelheim (Prof. Dr. Reetz, Prof. Dr. Leitner), Germany.
- IL50** *Variations on a theme by Hieber.*
G. Lavigne, - February 11, 2000 - University of Bochum (Prof. Dr. Driess), Germany.
- IL51** *Variations on a theme by Hieber*
G. Lavigne July 29-31 2001 - Invited plenary lecture at the "CREST International Symposium on Chemistry of Multinuclear Transition Metal Complexes" (Sponsored by the Japan Science and Technology Corporation) Waseda University, Tokyo, Japan
- IL52** *Snapshots on reactive intermediates in ruthenium-catalyzed systems*
G. Lavigne, August 1, 2001 - The Institute of Physical and Chemical Research (RIKEN) Department of Molecular Science (Prof. Wakatsuki). Tokyo.

- IL53** *Hydrometallation via simple carbonylhaloruthenium complexes: snapshots on reactive intermediates.*
G. Lavigne, August 2, 2001 - University of Kyoto, Department of Chemistry (Prof. **Mitsudo**)..
- IL54** "Magie" des associations ruthénium/halogénure en catalyse d'hydrofonctionnalisation
G. Lavigne, 10 Septembre 2002 – Prof. Dr. **Süss-Fink** University of Neuchâtel, Suisse
- IL55** "Magie" des associations ruthénium/halogénure en catalyse homogène et en chimie supramoléculaire
G. Lavigne, 19 Septembre 2002 – Prof. F. **Secheresse**, Université de Versailles Saint Quentin
- IL56** " Snapshots on reactive intermediates in catalytic systems based on poly-metallic precursors."
G. Lavigne, Invited plenary lecture at the Symposium [*Interaccion Metal-Metal en Quimica de Coordinacion de Complejos Polynucleares de Metales de Transicion*](#), University of Valparaiso, Chile, January 7-9, 2003.
- IL57** " Snapshots on reactive intermediates in Transition-metal catalyzed carbon-carbon bond forming reactions"
G. Lavigne, Keynote talk at the Symposium [*YoungChem 2004 Jurata*](#), Poland 13th-17th Oct. 2004.
- IL58** " Snapshots on reactive intermediates in Transition-metal catalyzed C-C bond forming reactions"
G. Lavigne, Invited Lecture, Institute of Organic Chemistry of the Polish Academy of Sciences, Warsaw, 19 October 2004.
- IL59** *Molecular design of "user-friendly" catalysts for carbon-carbon bond forming reactions.*
G. Lavigne, [Keynote talk](#) at the Symposium "[*X-Encuentro de Quimica Inorganica*](#)" University of Santiago, January 5-7, 2005.
- IL60** *Magie des associations Ruthénium Halogénure en Catalyse : de l'hydro-fonctionnalisation à la métathèse*
G. Lavigne Séminaires de Chimie Inorganique, Université de Paris VI, 21 Mars 2005.
- IL61** *Instant generation of transition-metal catalysts for C-H/olefin coupling and metathesis reactions.*
G. Lavigne, Invited Lecture, Nesmeyanov Institute, **INEOS**, Moscow, Russia, June 20, 2005
- IL62** *Instant generation of transition-metal catalysts for C-H/olefin coupling and metathesis reactions.*
G. Lavigne , Invited Lecture, YUCOS Research Center, Moscow, Russia, June 21, 2005
- IL63** *Instant generation of transition-metal catalysts for C-H/olefin coupling and metathesis reactions.*
G. Lavigne Plenary Lecture, Youth School Conference Kazan, Russia, June 22-26, 2005
- IL64** *Les combinairons magiques Ru/halogénures en catalyse homogène.*
G. Lavigne LCOO, Université de Bordeaux I, 9 Décembre 2005
- IL65** *Des concepts originaux pour une nouvelle chimie du ruthénium .*
G. Lavigne, Unité Sciences Chimiques de Rennes, UMR CNRS 6226, 4 Juillet 2006
- IL66** *Génération instantanée de pré-catalyseurs simples pour l'activation C-H et la métathèse.*
G. Lavigne, Conférence présentée dans le cadre de la remise de la Médaille de Bronze CNRS à Karine Costuas. Unité Sciences Chimiques de Rennes, UMR CNRS 6226, Université de Rennes I, 20 Avril 2007

- IL67** *Renouveau d'une chimie de base du ruthénium : réactions fondamentales et systèmes simples.*
G. Lavigne, Conférence du département de chimie de Strasbourg (Institut Le Bel), 6 Décembre 2007.
- IL68** *Molecular Design of « User-Friendly » Ruthenium Catalysts for Carbon-Carbon Bond Forming Reactions.*
G. Lavigne, Institute of Chemistry, Academia Sinica, Taipei, Taiwan, March 12, 2008.
- IL69** *Molecular Design of « User-Friendly » Ruthenium Catalysts for Carbon-Carbon Bond Forming Reactions.*
G. Lavigne, Institute of Chemistry, National Taiwan Normal University, Taipei, Taiwan, March 13, 2008.
- IL70** *Molecular Design of « User-Friendly » Ruthenium Catalysts for Carbon-Carbon Bond Forming Reactions.*
G. Lavigne, Institute of Chemistry, National Taiwan University (NTU), Taipei, Taiwan, March 14, 2008.
- IL71** *On the way to new generations of carbene complexes.*
G. Lavigne, Département de Chimie, Université de Santiago du Chili (USACH) (Groupe du Professeur Sergio Moya), March 19, 2009
- IL72** *On the way to new generations of carbene complexes.*
G. Lavigne, Département de Chimie, Université Catholique de Santiago du Chili (groupe du Professeur Juan-Manuel Manriquez), March 25, 2009
- IL72** *Trois variations sur le thème des carbènes.*
G. Lavigne, Département de Chimie, Université de Dijon, 12 Juin 2009

Communications in international meetings

- C1 *Cristallochimie appliquée à l'étude de la stéréochimie de l'action de quelques inhibiteurs de corrosion.*
Y. Jeannin, S. Jeannin, G. Lavigne, J. Lucrece, 4th *European Symposium on Corrosion Inhibitors*, 15-19 septembre **1975**, Ferrara, Italy. (Proceedings, p. 377-389).
- C2 *Structural models for corrosion inhibition: X-ray diffraction studies of $\text{HRu}_3(\text{CO})_{10}(\text{SCH}_2\text{COOH})$ and $\text{HRu}_3(\text{CO})_9(\text{C}_7\text{H}_4\text{NS}_2)$*
Y. Jeannin, S. Jeannin, G. Lavigne, *Fourth European crystallographic meeting*, 30 aout-3 septembre **1977**, Oxford, Royaume Uni (Abstracts, p. 299-331)
- C3 *Formation of sulfur rich complexes of tungsten: Synthesis and structure of $[(\text{WS}_4)_2\text{W}_2\text{S}_4]^{2-}$ and $[(\text{WS}_4)_2\text{WO}]^{2-}$ anions.*
F. Secheresse, J. Lefebvre, J. C. Daran, G. Lavigne, Y. Jeannin, XXIth *International conference on Coordination Chemistry*, July 7-11, **1980**, Toulouse, France (Proceedings, p.446).
- C4 *Syntheses, spectroscopic studies and X-ray structures of some capped triruthenium clusters involving phosphine and arsine ligands.*
J. J. Bonnet, G. Lavigne, N. Lugan, XXIth *International conference on Coordination Chemistry*, July 7-11, **1980**, Toulouse, France (Proceedings, p.325).
- C5 *Stabilisation d'espèces polynucléaires en vue d'applications en catalyse homogène*
G. Lavigne, N. Lugan, J. J. Bonnet, *Concord XI*, septembre **1980**, Jambville, France.
- C6 *Reactivity of substituted ruthenium clusters involving bis(diphenylphosphino)methane and bis(diphenylarsino)methane as bridging ligands.*
J. J. Bonnet, G. Lavigne, XIth *International Leeds-Sheffield Symposium on Organometallic and Inorganic Chemistry*, Avril **1981**, Leeds, Royaume Uni.
- C7 *Nuclearity control in ruthenium cluster chemistry by use of phosphorus bridging ligands such as bis(diphenylphosphino)methane.*
J. J. Bonnet, A. Colombié, G. Lavigne, N. Lugan, IIIrd *International Conference on the Chemistry of Platinum Group Metals*. 1-6 juillet **1984**, Edinburgh, Royaume Uni.
- C8 *Substitution Reactions of Phosphorus Ligands on triruthenium cluster complexes; Catalysis by Halide Ions.*
C. E. Kampe, G. Lavigne, H. D. Kaesz, *Twenty-Third International Conference on Coordination Chemistry*; University of Colorado, Boulder, Colorado, U.S.A. July, 29- August, 3; **1984**. Abstract of papers, p. 643.
- C9 *Effects of highly dissociated salts in stoichiometric and catalytic reactions on ruthenium cluster complexes.*
G. Lavigne, H. D. Kaesz. 3rd *China -Japan -U. S. Symposium on Organometallic Chemistry and Catalysis*. 5-9 Aout **1984**, Santa Cruz, California (Proceedings, pages 126-131)
- C10 *Effects of highly dissociated salts in stoichiometric and catalytic reactions on ruthenium cluster complexes.*
G. Lavigne, H. D. Kaesz. *Gordon Research conference on Organometallic Chemistry*. Aout 1984, Andover, USA.

- C11 *Hydrido homo- and hetero- transition metal clusters: their behavior in homogeneous catalytic reactions.*
C. Bergounhou, J. J. Bonnet, A. Colombié, P. Fompeyrine, G. Lavigne. *5^{eme} Conférence Fechem de chimie organométallique, Cap d'Agde, Septembre 1984.*
- C12 *¹³CO and phosphorus ligand substitution on triruthenium cluster complexes: Catalysis by [PPN] + salts.*
G. Lavigne, H. D. Kaesz, *IVth International Symposium on Homogeneous Catalysis, Septembre 1984, Leningrad, U.R.S.S.*
- C13 *¹³CO and phosphorus ligand substitution on triruthenium cluster complexes: Catalysis by [PPN] salts.*
C. E. Kampe, G. Lavigne, H. D. Kaesz, *The 1984 International Chemical Congress of Pacific Basin Societies; Symposium on Metal Cluster Chemistry, décembre 1984, Honolulu, Hawaii.*
- C14 *Transformation de ligands phosphorés dans des clusters trinuécléaires du ruthénium. I) cas du bis(diphénylphosphino)méthane.*
C. Bergounhou, J. J. Bonnet, A. Colombié, P. Fompeyrine, G. Lavigne, N. Lugan, *Colloque national sur la chimie du phosphore; 21-24 mai 1985, Iravals, France. (page 29)*
- C15 *Transformation de ligands phosphorés dans des clusters trinuécléaires du ruthénium. II) cas de la diphénylpyridilphosphine.*
J. J. Bonnet, G. Lavigne, N. Lugan, *Colloque national sur la chimie du phosphore; 21-24 mai 1985, Iravals La Tour de Carol, France. (page 68)*
- C16 *Modèles de réactivité dans la chimie des clusters: action de réactifs électrophiles sur des liaisons métal-métal riches en électrons.*
A. Colombié, G. Lavigne, J. J. Bonnet, *1^{er} Colloque France-Espagne de Chimie de Coordination. 10-12 Juillet 1985. (page 41)*
- C17 *Transformation de ligands phosphorés sur un triangle de ruthénium. Mise en évidence d'une intervention coopérative de plusieurs centres métalliques.*
N. Lugan, G. Lavigne, J. J. Bonnet. *1^{er} Colloque France-Espagne de Chimie de Coordination. 10-12 Juillet 1985. (book of abstracts, page 56)*
- C18 *Low Activation Energy Pathways in Substituted Triruthenium Complexes.*
N. Lugan, G. Lavigne, J. J. Bonnet, *XXIV International Conference on Coordination Chemistry; Athenes, Sept. 1986.*
- C19 *Nouveaux aspects de la chimie des clusters contenant le ligand diphénylpyridylphosphine.*
N. Lugan, G. Lavigne, J. J. Bonnet, *Concord XVI, 12-15 mai 1986, Le Bonhomme, France.*
- C20 *Catalytic Displacement of CO by Phosphine Ligands from Ru₃(CO)₁₂ promoted by various Hydride Donors.*
G. Lavigne, N. Lugan, J. J. Bonnet, *Third International Conference on the Chemistry of Platinum Group Metals; Sheffield, 13-17 Juillet 1987*
- C21 *Promoter Effect of Anionic Nucleophiles on Reactions of Ru₃(CO)₁₂ : Activation and Transformation of Alkynes Under Mild Conditions.*
Rivomanana, S.; Lavigne, G.; Lugan, N.; Bonnet, J.-J., *International Symposium on Interfaces in Metal Complex Chemistry, Juillet 1989, Rennes, France.*

- C22 *Synthèse rationnelle de clusters alcyne/ruthénium par activation anionique de Ru₃(CO)₁₂.*
Rivomanana, S.; Lavigne, G.; Lugan, N.; Bonnet, J.-J., *Concord XXI*, Mai **1991**, Bonbannes, France.
- C23 *Electrochimie d'un cluster du ruthénium riche en électrons.*
Lugan, N.; de Montauzon, D.; Fabre, P. L.; Lavigne, G.; Bonnet, J.-J.; Saillard J.-Y.; Halet, J.-F., *Journées d'Electrochimie 91*, Mai **1991**, Brest, France.
- C24 *On the way to selective reactions of ruthenium carbonyl clusters with organic substrates.*
G.Lavigne, N. Lugan, F. Mulla, S. Rivomanana, J.-J. Bonnet, "Selective reactions of metal-activated molecules", Sonderforschungsbereich 347, Wurtzburg, September 18-20, **1991**.
- C25 *Réactivité de clusters du ruthénium activés par des ligands ancillaires semi-labiles.*
Lavigne, G. *3eme Journée Scientifique du Laboratoire de Chimie de Coordination*, Juin **1992**, Toulouse, France.
- C26 *Hydroesterification de l'éthylène par le formiate de méthyle en présence de complexes du ruthénium.*
Soulié, J.-M.; Kalck, P.; Lugan, N.; Lavigne, G. *3ième Journée Scientifique du Laboratoire de Chimie de Coordination*, Juin **1992**, Toulouse, France.
- C27 *Hydroesterification de l'éthylène par le formiate de méthyle en présence de complexes anioniques du ruthénium.*
Soulié, J.-M.; Kalck, P.; Lugan, N.; Lavigne, G. *Société Française de Chimie, Journée Jeunes chercheurs*, 12-13 mai **1993**, Toulouse.
- C28 *Hydroesterification of Ethylene by Methyl Formate Using Pre-formed Ruthenium Carbonyl Halide Complexes as Catalyst Precursors.*
Kalck, P.; Soulié, J.-M.; Lugan, N.; Lavigne, G. *Fifth International Conference on The Chemistry of the Platinum Group Metals* University of St Andrews, Scotland, 11-16 July **1993**
- C29 *Réactions de transfert d'un groupement vinyle par insertion.*
Nombel, P.; Lugan, N.; Lavigne, G. *Société Française de Chimie, IV eme Journée Grand Sud-Ouest*, Toulouse, 25 Novembre **1994**. Communication N° C 204.
- C30 *Réactions de transfert d'un groupement vinyle par insertion.*
Nombel, P.; Lugan, N.; Lavigne, G. *Gecom Concord 95*, Mai **1995**, St Jacut de la mer, France.
- C31 *Hydroesterification de l'éthylène par le formiate de méthyle en présence de complexes chloro carbonyles du ruthénium: identification d'espèces alkyles dans le milieu réactionnel.*
Fabre, S.; Kalck, P.; Lugan, N.; Lavigne, G. *Gecom Concord 96*, 19-23 Mai **1996**, Aspet, Haute Garonne, France.
- C32 *ESF Exploratory Workshop on CLUSTER SCIENCE*
Guy Lavigne 19-21 Novembre **1999**, Université de Saragosse. J'ai été invité à présenter nos travaux sur les clusters et à participer à la mise en place d'un réseau européen réunissant une dizaine de spécialistes de ce domaine
- C33 *Nouveaux complexes polymériques poly-anioniques du ruthénium*
Luc Maurette, Guy Lavigne
Journée du "Grand Sud-Ouest", Université de Montpellier, 26 Novembre **1999**, Affiche P203.

- C34 "Selective reactions of "acidic" hydrido carbonyl-chloro ruthenium (II) complexes.
Vincent Huc, Luc Maurette, Catherine Saccavini, Laure Semont, Guy Lavigne
Conférence SFC Eurochem, Toulouse, 8-11 Juillet **2002**
- C35 Alkyne metathesis as a potential new tool for the synthesis of ring carbomers: A highly efficient catalytic system via simple modifications of the Mortreux-Bunz system.
Vincent Huc, Robert Weihoffen, Ignacio Martin Gimenez, Pascal Oulié, Guy Lavigne, Remi Chauvin.
Conférence SFC Eurochem, Toulouse, 8-11 Juillet **2002**
- C36 Highly stable double-chelated ruthenium carbenes and their application in metatheses reactions.
Karol Grela, Robert Bujok, Michal Bieniek, Maciej Cabaj, Guy Lavigne, Noël Lugan, Dieter Artl,
Frühjahr Symposium 2005, Berlin, Germany, April 2005
- C37 Instant Generation of a ROMP initiator from tetra(alkynylphosphine) ruthenium(II) complexes.
Maria Bernechea, Elena Lalinde, Guy Lavigne, Noël Lugan - Trans-mediterranean Symposium on Organometallic Chemistry and Catalysis [RENACOM 2005](#) - Marrakech, May 04-07, 2005
- C38 Simple Strategies for Catalyst Design: Instant generation of Ru(II) ROMP initiators and Ru(0) pre-catalysts for C-H/olefin coupling.
Guy Lavigne, Noël Lugan, Stephane Sentets, Maria del Carmen Rodriguez Martinez, Maria Asuncion Luquin - Trans-mediterranean Symposium on Organometallic Chemistry and Catalysis [RENACOM 2005](#) - Marrakech, May 04-07, 2005
- C39 A Modular Approach to Rapidly Initiating Olefin Metathesis Catalysts, Bieniek, M.; Grela, K.; Bujok R.; Lavigne, G.; Lugan, N. *Recent Advances in Organometallic Chemistry and applied Catalysis, Pre OMCOS 13*, 15-16 July **2005**, Paris, France, (oral presentation)
- C40 A Modular Approach to Rapidly Initiating Olefin Metathesis Catalysts, Bieniek, M.; Grela, K.; Bujok R.; Lavigne, G.; Lugan, N., *The 16th International Symposium on Olefin Metathesis and Related Chemistry, ISOM 16*, 7-12 August **2005**, Poznań, Poland, (poster)
- C41 Higly Stable Double-chelated Ruthenium Carbenes and their Applications in Metathesis Reactions Bieniek, M.; Grela, K.; Lavigne, G.; Lugan, N., *Mechanistic and Reaction-Engineering Aspects of Metal Containing Catalysts*, 17-18 November **2005**, Berlin, Germany, (poster)
- C42 Efficient Substituted Hoveyda-Grubbs Ruthenium Carbenes for Olefin Metathesis, Bieniek, M.; Grela, K.; Cabaj, M.; Lavigne, G.; Lugan, N., *European Congress of Young Chemists "YoungChem 2005"*, 12-16 October **2005**, Rydzyna, Poland, (oral presentation).

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