

CURRICULUM VITAE and STUDIORUM

Prof. Dr. Barbara Milani

**University of Trieste
Department of Chemical and Pharmaceutical Sciences**

(update on March 2019)

BARBARA MILANI**Personal Notes**

Born in: Varese, at 01/12/1965
 Nationality: Italian
 Marital status: married

Resident

Via Degli Eroi 3
 34072 Gradisca d'Isonzo (GO)
 Italy
 Tel.: 0481 93211

Positions occupied:

10/2014 – present **Associate Professor of Inorganic Chemistry**
Permanent Position
 Università di Trieste
 Dipartimento di Scienze Chimiche e Farmaceutiche

4/1998 – 9/2014 **Assitant Professor of Inorganic Chemistry**
Permanent Position
 Università di Trieste
 Faculty of Science

Education:

11/1994 – 12/1997 **Post doc**
 Università di Trieste
 Dipartimento di Scienze Chimiche
 Supervised by: Prof. Giovanni Mestroni

11/1991 – 10/1994 **Ph. D. Student**
 Università di Trieste
 Dipartimento di Scienze Chimiche
 Tutor: Prof. Giovanni Mestroni
 Ph. D. Thesis title: "Palladium complexes with bidentate nitrogen-donor chelating ligands: synthesis, characterization and catalytic activity"

5/1990 – 5/1991 **Industrial Fellowship**
 Sponsored by Istituto Guido Donegani – ENICHEM Novara
 Research topic: "Reductive carbonylation of nitroaromatic compounds"

12/1989 **"Laurea" in Chemistry**
 Università di Trieste
 Mark: 110/110 cum laude
 Title of the graduation thesis: "Catalytic oxidation of thioether to sulfoxide by molecular oxygen, promoted by ruthenium(II) complexes"
 Tutor: Prof. Giovanni Mestroni

Studies and Research Activity out of Italy:

- 03/2017 **ERASMUS exchange teaching staff mobility at University Rovira i Virgili in Tarragon (Spain)**
1 week Teaching 8 h topic Metal carbonyls to student of Chemistry – Bachelor level
- 05/2014 **Visiting Professorship at Université Pierre et Marie Curie at Paris**
1 month Teaching “Catalysis for Polymerization” PhD Students
- 04/2014 **ERASMUS exchange teaching staff mobility at University Rovira i Virgili in Tarragon (Spain)**
1 week Teaching 7 h topic Metal carbonyls to student of Chemistry – Bachelor level
- 03/2012 **ERASMUS exchange teaching staff mobility at University Rovira i Virgili in Tarragon (Spain)**
1 week Teaching 7 h topic Metal carbonyls to student of Chemistry – Bachelor level
- 10/2010 **Visiting Professorship at Ecole Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques – Institut National Polytechnique de Toulouse**
1 month Teaching “Catalysis for Polymerization” Students of Chemistry Master Level
- 6/2001 & 9/2000 **Studies and Research Activity at University of Amsterdam**
Supervisor: Prof. Dr. Cornelis J. Elsevier
- 4-5/2002 & 7-9/1993 **Studies and Research Activity at ETH in Zürich**
Supervisor: Prof. Giambattista Consiglio

Titles

- National Abilitation for Full Professor in Inorganic Chemistry (April 2017)
- National Abilitation for Associate Professor in Inorganic Chemistry (December 2013)
- National Abilitation for Associate Professor in Industrial Chemistry (December 2013)
- Accreditation for Advanced Research in Catalunya (March 2010)
- Ph. D. in Chemistry (October 1995)
- Abilitation for teaching Chemistry in the High School (February 1995)
- Laurea in Chemistry (December 1989)

Principal Investigator and scientist in charge of the following research grants

Local Research Grants

- 2019-2021 **Participant to Research Fund of Trieste University – FRA2018**
“INorganic chemistry for the SustaInable DEvelopment”
- 2016-2018 **Participant to Research Fund of Trieste University – FRA2015**
“Small molecules: keys for sustainable development”
- 2014-2015 **Participant to Research Fund of Trieste University – FRA2013**
“Design and development of new coordination compounds having specific functionality”
- 2012-2013 **Participant to Research Fund of Trieste University – FRA2011**
“Application of ¹⁹F NMR spectroscopy for multidisciplinary studies”
- 2009-2010 **Scientist in charge of a University grant** for a Post doc fellowship
- 2009 **Recipient of a donation** of 10000 € by Fondazione Benefica Kathleen Foreman Casali specifically dedicated to buy a tinyclave reactor
- 2007-2008 **Scientist-in-charge for a Post doc position**
“Regio- and stereocontrolled polymerization reactions catalyzed by late transition metals”

National Research Grants:

- 2016-2020 **Participant to one Rresearch Unit of the Italian Project PRIN 20154X9ATP_005**
Project Title: Towards a Sustainable Chemistry: Design of Innovative Metal-Ligand Systems for Catalysis and Energy Applications.
Central Coordinator: Prof. Alberto Albinati Università di Milano
- 2016 **Participant to Progetti Competitivi**
Subproject title: Development of homogeneous catalysts for the CO₂/cyclic ether copolymerization
Central Coordinator: National Interuniversity Consortium for Chemical Reactivity and Catalysis (CIRCC)
- 2014 **Participant to Progetti Competitivi**
Subproject title: Catalysis for polymerization and polymeric materials
Central Coordinator: National Interuniversity Consortium for Chemical Reactivity and Catalysis (CIRCC)
- 9/2008 – 8/2010 **Local Coordinator of the Research Unit of the Italian Project PRIN 2007HMTJWP_002**
Project title: Catalysis for chemo- and stereocontrolled polymerization: powerful tool for the synthesis of new polymeric materials
Central Coordinator: Prof. Serafino Gladiali Università di Sassari

1/2006 – 12/2007 **Local Coordinator of the Research Unit of the Italian Project PRIN 2005035123**
 Project title: Regio- and Stereocontrolled Polymerization and Post-polymerization Reactions Catalyzed by Late Transition Metal Complexes
 Central Coordinator: Prof. Serafino Gladiali Università di Sassari

1/2004 – 12/2005 **Local Coordinator of the Research Unit of the Italian Project PRIN 2003033857**
 Project title: Chiral nitrogen-donor ligands for asymmetric catalysis promoted by transition metals complexes. New tools for fine chemicals synthesis
 Central Coordinator: Prof. Serafino Gladiali Università di Sassari

International Research Grants:

2016 **Recipient of a donation** of 25000 € by BENEFICIENTIA Stiftung Lichtestein

5/2013-5/2017 **Coordinator of the Working Group “CM1205/0002”**
 Project title: “CO_x Reduction”
 COST Action CM1205 - CARISMA

2007-2011 **Member of Working Group N. D40/WG3**
 Project title: C-C and C-Hetero Bond Forming Reactions
 COST Action D40 “Innovative Catalysis: New Processes and Selectivities”

2006 -2007 **Principal Italian Investigator for the Bilateral Action Italy/Germany “Vigoni”**
 Project title: Development of efficient catalysts based on palladium and nitrogen-donor ligands for stereocontrolled polymerization reactions

10/2002 – 9/2006 **Central Coordinator of a European Research Training Network**
 Project title: Atom-economic synthesis using palladium, the chameleon catalyst” “PALLADIUM
 5th Framework Program
 Contract identifier: HPRN-CT-2002-00196

6/2000 – 5/2006 **Coordinator of the Working Group “D17/0002/00”**
 Project title: New catalysts for copolymerization of olefins and polar monomers
 COST Action D17

Industrial Research Grants

2008 - 2010 **Scientist-in-charge of contract with Marlin enterprise**
 Project title: Development of new polymeric materials for environmentally friendly antifouling paints

Collaborations

Collaborations with Italian Professors

Dr. Barbara Milani is currently successfully collaborating with the following research groups of Italian Universities:

Dott.ssa Carla Carfagna	University of Bologna
Prof. Claudio Pellecchia	University of Salerno
Prof. Fabio Ragaini	University of Milano
Dott.ssa Roberta Seraglia	CNR of Padova
Prof. Ennio Zangrando	University of Trieste
Prof. Fulvia Felluga	University of Trieste
Prof. Paolo Fornasiero	University of Trieste

International Collaborations

Dr. Barbara Milani is currently successfully collaborating with the following research groups of European Universities:

Prof. Dr. Martin Albrecht	University of Bern (Switzerland)
Prof. Dr. Carmen Claver	University Roviria i Virgili of Tarragona (Spain)
Dr. Jerome Durand	ENSIACET Toulouse (France)
Prof. Dr. Cornelis J. Elsevier	University of Amsterdam (The Netherlands)
Prof. Dr. Pedro Gomez	Tecnico Lisboa (Portugal)
Prof. Dr. Anna Masdeu	University Roviria i Virgili of Tarragona (Spain)
Dr. Edwin Otten	University of Gröningen (The Netherlands)

Editorial activity

2007-2009 Member of Advisory Board of European Journal of Inorganic Chemistry
 2008-present Member of Advisory Board of Dalton Transaction
 2009- present Member of Advisory Board of International Symposium on Homogeneous Catalysis

Co-editor of:

- Helvetica Chimica Acta, 2006, 89 (8): special issue dedicated to Prof. Giambattista Consiglio
- Book of abstracts of International Symposium on Homogeneous Catalysis, ISHC-XVI (Florence, July 2008)
- Dalton Transactions themed issue on “Metal-catalysed polymerisation” issue 41, 2009
- Dalton Transaction themed issue on “Small Molecules activation” issue 45, 2016

Member of the organizing committee of:

- VIII National Conference on Supramolecular Chemistry (Trieste, September 2007)
- International Symposium on Homogeneous Catalysis, ISHC-XVI (Florence, July 2008)
- XXXVIII National Conference of the Inorganic Chemistry Division (Trieste, September 2010)
- 28^a International Conference on Organometallic Chemistry ICOMC (Florence, July 2018)
- Session Chair for the Topic “T12 – Homogeneous Catalysis” at the 44th International Conference on Coordination Chemistry – ICC2020 (Rimini, July 2020)

Responsible Activities inside the Department

11/2017-present **Coordinator of the PhD School Doctorate in Chemistry** (joint PhD School between University of Trieste and Ca' Foscari University Venice)

2016-present **Member of the Board** (Collegio Docenti) of the PhD School in Chemistry

2013-2018 **Member of the Advisory Board** (Giunta) of the Department

2008-2018 **ERASMUS** coordinator for chemistry for the Department of Chemical and Pharmaceutical Sciences

2008-present Responsible for the 500 MHz NMR Varian spectrometer installed at the Department of Chemical Sciences on March 2008, and she gives the training for the use of the Spectrometer to the users of the Department.

2008-present **Representative of University of Trieste** in the National Interuniversity Consortium for Chemical Reactivity and Catalysis (CIRCC).

Refereeing and evaluation activity

I have been/currently am the evaluators for: FIRB Projects and VQR for the Italian Ministry of University, ANR (France), ICREA (Spain) projects;

I have been/currently am the referee for scientific Journals: ACS Catalysis, Organometallics, ChemCatChem, Dalton Transactions, Inorganic Chimica Acta.

PUBLICATIONS

H index = 26 (Scopus March 2019)

I.F. = impact factor; N.C. = number of citations

- 1) E. Alessio, **B. Milani**, G. Mestroni, M. Calligaris, P. Faleschini, W.M. Attia
Synthesis and characterization of new halogen -tetramethylene sulfoxide-ruthenium(II) and ruthenium(III) complexes; crystal structure of *cis*-dichlorotetrakis(tetramethylene sulfoxide) ruthenium(II) and hydrogen *trans*-bis(tetramethylene sulfoxide)tetrachlororuthenate(III)
Inorg. Chim. Acta, 1990, 117, 255.
I.F. = 1.578 N.C. = 51
- 2) R.S. Srivastava, **B. Milani**, E. Alessio, G. Mestroni
Novel Ru(III)-dimethyl sulfoxide catalysts for the selective oxidation of thioethers to sulfoxides with molecular oxygen
Inorg. Chim. Acta, 1992, 191, 15.
I.F. = 1.578 N.C. = 29
- 3) E. Alessio, **B. Milani**, M. Calligaris, N. Bresciani-Pahor
The synthesis of $\text{RuBr}_2(\text{DMSO})_3$ revisited: a mixture of $\text{Li}[\text{fac-RuCl}_n\text{Br}_{3-n}(\text{DMSO})_3]$ isomers ($n=0-3$) is the reaction product
Inorg. Chim. Acta, 1992, 194, 85.
I.F. = 1.578 N.C. = 19
- 4) S. Geremia, L. Randaccio, G. Mestroni, **B. Milani**
Bow-step and twist conformations and stacking interactions in palladium bipyridine and phenanthroline complexes
J. Chem. Soc., Dalton Trans., 1992, 2117.
I.F. = 2.908 N.C. = 43
- 5) **B. Milani**, E. Alessio, G. Mestroni, A. Sommazzi, F. Garbassi, E. Zangrando, N. Bresciani-Pahor, L. Randaccio
Synthesis and characterization of monochelated carboxylato palladium(II) complexes with nitrogen-donor chelating ligands. Crystal structures of diacetato(1,10-phenanthroline)palladium(II) and diacetato(2,9-dimethyl-1,10-phenanthroline)palladium(II)
J. Chem. Soc., Dalton Trans., 1994, 1903.
I.F. = 2.908 N.C. = 99
- 6) E. Alessio, M. Bolle, **B. Milani**, G. Mestroni, P. Faleschini, S. Geremia, M. Calligaris
Carbonyl derivatives of chloride-dimethyl sulfoxide-ruthenium(III) complexes: synthesis, crystal structure and reactivity of $[(\text{DMSO})_2\text{H}][\text{trans-RuCl}_4(\text{DMSO})(\text{CO})]$ and *mer*, *cis*- $\text{RuCl}_3(\text{DMSO})_2(\text{CO})$.
Inorg. Chem., 1995, 34, 4716.
I.F. = 3.389 N.C. = 46
- 7) E. Alessio, **B. Milani**, M. Bolle, G. Mestroni, P. Faleschini, F. Todone, S. Geremia, M. Calligaris
Carbonyl derivatives of chloride-dimethyl sulfoxide-ruthenium(II) complexes: synthesis, structural characterization and reactivity of $\text{Ru}(\text{CO})_x(\text{DMSO})_{4-x}\text{Cl}_2$ complexes ($x=1-3$).
Inorg. Chem., 1995, 34, 4722.
I.F. = 3.389 N.C. = 68

- 8) **B. Milani***, E. Alessio, G. Mestroni, E. Zangrando, L. Randaccio, G. Consiglio
New atropisomeric bidentate nitrogen-donor compounds as potential stereocontrollers in mild CO-styrene copolymerisation catalysed by palladium(II) salts.
J. Chem. Soc., Dalton Trans., 1996, 1021.
I.F. = 2.908 N.C. = 56
- 9) **B. Milani***, L. Vicentini, A. Sommazzi, F. Garbassi, E. Chiarparin, E. Zangrando, G. Mestroni
Bis(chelated) palladium(II) complexes with a diphosphine and a dinitrogen ligand: very efficient catalyst precursors in the co- and terpolymerisation of CO and olefins.
J. Chem. Soc., Dalton Trans., 1996, 3139.
I.F. = 2.908 N.C. = 51
- 10) A. Sessanta o Santi, **B. Milani**, G. Mestroni, E. Zangrando, L. Randaccio
Crystal structure of a palladium metallacyclic complex: a key-intermediate in the carbonylation of nitrobenzene to isocyanates and carbamates.
J. Organomet. Chem., 1997, 545-546, 89.
I.F. = 2.042 N.C. = 20
- 11) **B. Milani***, A. Anzilutti, L. Vicentini, A. Sessanta o Santi, E. Zangrando, S. Geremia, G. Mestroni
Bischelated palladium(II) complexes with nitrogen-donor chelating ligands are efficient catalyst precursors for the CO/styrene copolymerization reaction.
Organometallics, 1997, 16, 5064.
I.F. = 3.375 N.C. = 182
- 12) **B. Milani***, G. Mestroni
Pd(II) Complexes with Bidentate Nitrogen-donor Chelating Ligands: Very Versatile and Active Catalyst Precursors for the CO/olefin Co- and Terpolymerization Reactions.
Comments on Inorganic Chemistry, 1999, 20, 301.
I.F. = 1.840 N.C. = 28
- 13) **B. Milani***, G. Corso, E. Zangrando, L. Randaccio, G. Mestroni
Crystal structure and dynamic behavior of a new class of monocationic organometallic Pd(II) compounds with two molecules of bidentate ligands: [Pd(L-L)(N-N)(CH₂NO₂)] [PF₆] (L-L = N-N, dppp).
Eur. J. Inorg. Chem, 1999, 2085.
I.F. = 2.475 N.C. = 20
- 14) A. Macchioni, G. Bellachioma, G. Cardaci, M. Travaglia, C. Zuccaccia, **B. Milani**, G. Corso, E. Zangrando, G. Mestroni, C. Carfagna, M. Formica
Counterion effect on CO/styrene copolymerization catalyzed by cationic palladium(II) organometallic complexes: an interionic structural and dynamic investigation based on NMR spectroscopy.
Organometallics, 1999, 18, 3061.
I.F. = 3.215 N.C. = 102
- 15) E. Iengo, **B. Milani**, E. Zangrando, S. Geremia, E. Alessio
Novel ruthenium building blocks for the efficient modular construction of heterobimetallic molecular squares of porphyrins.

Angew. Chem. Int. Ed., 2000, 39, 1096.
I.F. = 8.547 N.C. = 80

16) **B. Milani***, G. Corso, C. Carfagna, M. Formica, R. Seraglia, G. Mestroni
Highly efficient catalytic system for the CO/styrene copolymerization: towards the stabilization of the active species
Organometallics, 2000, 19, 3435.
I.F. = 3.169 N.C. = 64

17) A. Sessanta o Santi, **B. Milani***, E. Zangrado, G. Mestroni
Synthesis and crystal structure of a palladium metallacyclic complex: a key intermediate in the carbonylation of azobenzene to N- phenyl urethane.
Eur. J. Inorg. Chem., 2000, 2351.
I.F. = 2.222 N.C. = 7

18) **B. Milani***, F. Paronetto, E. Zangrado
Ligand driven $\sigma, \pi - \eta^3$ structural rearrangements of organopalladium complexes: Their relevance to the CO/styrene copolymerisation reaction
J. Chem. Soc., Dalton Trans., 2000, 3055.
I.F. = 2.502 N.C. = 23

19) E. Iengo, R. Minatel, **B. Milani**, L. G. Marzilli, E. Alessio
Metal-mediated self-assembly of molecular squares of porphyrins rimmed with coordination compounds
Eur. J. Inorg. Chem., 2001, 609.
I.F. = 2.475 N.C. = 18

20) **B. Milani**, G. Mestroni, E. Zangrado
Structural aspects of palladium systems used as catalyst precursors in CO/olefins co- and terpolymerisation reactions.
Croat. Chim. Acta, 2001, 74, 851.
I.F. = 0.571 N.C. = 13

21) **B. Milani***, A. Marson, E. Zangrado, J.M. Ernsting, C. J. Elsevier, G. Mestroni
New monocationic methylpalladium(II) compounds with several bidentate nitrogen-donor ligands: synthesis, characterisation and reactivity with CO
Inorg. Chim. Acta, 2002, 327, 188.
Invited paper dedicated to Prof. Kees Vrieze
I.F. = 1.566 N.C. = 42

22) **B. Milani***, A. Scarel, G. Mestroni, S. Gladiali, R. Taras, C. Carfagna, L. Mosca
Very stable Pd(II)-(N-N) catalysts for the synthesis of high molecular weight CO/styrene polyketones
Organometallics, 2002, 21, 1323.
I.F. = 3.215 N.C. = 47

23) A. Gsponer, **B. Milani**, G. Consiglio
The control of stereochemistry in the palladium-catalyzed alternating styrene/carbon monoxide copolymerization: effect of the chirality of the ligand and of the ligand-to-palladium ratio.

Helv. Chim. Acta, 2002, 85, 4074.
I.F. = 2.027 N.C. = 12

24) A. Bastero, A. Ruiz, **B. Milani***, E. Zangrando, C. Claver*
Influence of pyridine-imidazoline ligands on the reactivity of Palladium-methyl complexes with carbon monoxide.
Organometallics, 2002, 21, 5820.
I.F. = 3.215 N.C. = 48

25) G. Consiglio, **B. Milani**
Stereochemical aspects of co-oligomerization and co-polymerization of alkenes with carbon monoxide.
in "Catalytic synthesis of alkene-carbon monoxide copolymers and cooligomers"
Ed. by Ayusman Sen, Kluwer Academic Press.
2003, Chapter 6; pg. 189.

26) **B. Milani***, E. Stabon, E. Zangrando, A. Sommazzi, C. Zannoni, G. Mestroni
Polymerisation of polar olefins promoted by organometallic cobalt complexes: free radical or coordinative process?
Inorg. Chim. Acta, 2003, 349, 209.
I.F. = 1.578 N.C. = 9

27) **B. Milani***, A. Scarel, E. Zangrando, G. Mestroni, C. Carfagna, B. Binotti
Cationic palladium complexes with mono- and bidentate nitrogen-donor ligands: synthesis, characterization and reactivity in CO/styrene copolymerization reaction.
Inorg. Chim. Acta, 2003, 350, 592.
Invited paper dedicated to Prof. Pierre Braunstein.
I.F. = 1.578 N.C. = 18

28) E. Zangrando, M. Trani, E. Stabon, C. Carfagna, **B. Milani**, G. Mestroni
Synthesis and molecular structure of nickel(II) and cobalt(III) complexes with N-Aryl-diacetyl monoxime.
Eur. J. Inorg. Chem., 2003, 2683.
I.F. = 2.482 N.C. = 11

29) **B. Milani***, A. Scarel, J. Durand, G. Mestroni, R. Seraglia, C. Carfagna, B. Binotti
MALDI-TOF mass spectrometry in the study of CO/aromatic olefins terpolymers.
Macromolecules, 2003, 36, 6295.
I.F. = 3.621 N.C. = 19

30) **B. Milani***, A. Marson, A. Scarel, G. Mestroni, J. M. Ernsting, C. J. Elsevier
Facile synthesis of new, stable, palladium-ethyl derivatives containing nitrogen-donor ligands.
Organometallics, 2004, 23, 1974.
I.F. = 3.196 N.C. = 19

31) A. Scarel, **B. Milani***, E. Zangrando, M. Stener, S. Furlan, G. Fronzoni, G. Mestroni, S. Gladiali, C. Carfagna, L. Mosca
Palladium complexes with 3-alkyl-substituted-1,10-phenanthrolines: effect of the remote alkyl substituent on the CO/olefin copolymerization reactions.

Organometallics, 2004, 23, 5593.
I.F. = 3.196 N.C. = 36

32) M. Calligaris, E. Zangrando, **B. Milani**, A. Marson
Stereochemical Investigation of Palladium(II) Complexes with Phenanthroline Ligands: a Molecular Mechanics Approach.
Eur. J. Inorg. Chem., 2005, 704-712.
I.F. = 2.597 N.C. = 7

33) A. Bastero*, A. Ruiz, C. Claver, A. Bella, **B. Milani***, B. Moreno, F. A. Jalon, B. R. Manzano
Control of polymer composition in Pd-catalyzed CO/olefin terpolymerization reaction.
Adv. Synth. & Cat., 2005, 347, 839-846.
I.F. = 4.632 N.C. = 11

34) A. Scarel, J. Durand, D. Franchi, E. Zangrando, G. Mestroni, S. Gladioli, C. Carfagna, B. Binotti, S. Bronco, T. Gragnoli, **B. Milani***
Trifluoroethanol: key solvent for palladium-catalyzed polymerization reactions.
J. Organomet. Chem., 2005, 690/8, 2106-2120.
I.F. = 2.025 N.C. = 36

35) D. Sirbu, G. Consiglio, **B. Milani**, P. G. A. Kumar, P. Pregosin, S. Gischig
Palladium complexes with meso-bioxazoline ligands for alternating styrene/CO copolymerisation: Counterion effect.
J. Organomet. Chem., 2005, 690, 2254-2262.
I.F. = 2.025 N.C. = 26

36) A. Scarel, J. Durand, D. Franchi, E. Zangrando, G. Mestroni, C. Carfagna, L. Mosca, R. Seraglia, G. Consiglio, **B. Milani***
Mono- and dinuclear bioxazoline-palladium complexes for the stereocontrolled synthesis of CO/styrene polyketones
Chem-Eur. J., 2005, 11, 6014-6023.
I.F. = 4.907 N.C. = 39

37) J. Durand, **B. Milani***
The role of nitrogen-donor ligands in the palladium-catalyzed polyketones synthesis
Coord. Chem. Rev., 2006, 250, 542-560.
I.F. = 8.815 N.C. = 104

38) A. Mezzetti, **B. Milani***
Giambattista Consiglio's passion for homogeneous catalysis, C-C bond formation, and stereochemistry
Helv. Chim. Acta, 2006, 89, 1475-1481.
I.F. = 1.550 N.C. = 0

39) J. Durand, E. Zangrando, M. Stener, G. Fronzoni, C. Carfagna, B. Binotti, P. C. J. Kamer, C. Müller, M. Caporali, P. W. N. M. van Leeuwen, D. Vogt, **B. Milani***
Long Lived Palladium Catalysts for CO/Vinyl Arene Polyketones Synthesis: A Solution to Deactivation Problems
Chem-Eur. J., 2006, 12, 7639-7651.

I.F. = 5.015 N.C. = 43

40) J. Durand, A. Scarel, R. Seraglia, S. Gladiali, C. Carfagna, B. Binotti, **B. Milani***
Palladium Promoted CO/Ethylene/Styrene Terpolymerisation Reaction: Throwing the Light on the
Different Reactivity of the two Alkenes
Helv. Chim. Acta, 2006, 89, 1752-1771.
I.F. = 1.550 N.C. = 20

41) A. Schätz, A. Scarel, E. Zangrando, L. Mosca, C. Carfagna, A. Gissibl, **B. Milani***, O. Reiser*
High Stereocontrol and Efficiency in CO/Styrene Polyketones Synthesis Promoted by
Azabis(oxazoline)-Palladium Complexes
Organometallics, 2006, 25, 4065-4068.
I.F. = 3.632 N.C. = 25

42) S. D. Bergman, I. Goldberg, C. Carfagna, L. Mosca, M. Kol*, **B. Milani***
Palladium Complexes Containing Large Fused Aromatic N-N Ligands as Efficient Catalysts for the
CO/Styrene Copolymerization
Organometallics, 2006, 25, 6014-6018.
I.F. = 3.632 N.C. = 13

43) J. Durand, S. Gladiali, G. Erre, E. Zangrando, **B. Milani**
Palladium chemistry of 2-ferrocenyl-1,10-phenanthroline ligand
Organometallics, 2007, 26, 810-818.
I.F. = 3.833 N.C. = 29

44) A. Scarel, M. R. Axet, F. Amoroso, F. Ragaini, C. J. Elsevier, A. Holuigue, C. Carfagna, L.
Mosca, **B. Milani***
Subtle Balance of Steric and Electronic Effects for the Synthesis of Atactic Polyketones Catalyzed
by Pd Complexes with *meta*-Substituted Aryl-BIAN Ligands
Organometallics, 2008, 27, 1486-1494.
I.F. = 3.815 N.C. = 48

45) J. Durand, E. Zangrando, C. Carfagna, **B. Milani**
New atropisomeric N-N ligands for CO/vinyl arene copolymerization reaction
Dalton Trans., 2008, 2171-2182.
I.F. = 3.580 N.C. = 12

46) **B. Milani***, A. M. Masdeu- Bultò
Ligand Chirality in Palladium Catalysed Polyketones Synthesis
In "Organometallic Chirality"
Edited by G. Pályi, C. Zucchi and L. Caglioti
Mucchi Editore, 2008, Chapter 8, 161-203.

47) **B. Milani**, C. Crotti, E. Farnetti
Hydrogen transfer reduction of polyketones catalyzed by iridium complexes: a novel route towards
more biocompatible materials.
Dalton Trans., 2008, 4659-4663.
I.F. = 3.580 N.C. = 10

- 48) M. Rosa Axet, F. Amoroso, G. Bottari, A. D'Amora, E. Zangrando, F. Faraone, D. Drommi, M. Saporita, C. Carfagna, P. Natanti, R. Seraglia, **B. Milani***
Application of chiral amine-imine ligands in palladium-catalyzed polyketones synthesis: effect of ligand backbone on the polymer stereochemistry
Organometallics, 2009, 28, 4464-4474.
I.F. = 4.204 N.C. = 19
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- 50) T. Gianferrara, I. Bratsos, E. Iengo, **B. Milani**, A. Oštrić, C. Spagnol, E. Zangrando, E. Alessio
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I.F. = 4.081 N.C. = 45
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I.F. = 4.081 N.C. = 6
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J. Med. Chem., 2010, 53, 4678-4690.
I.F. = 5.207 N.C. = 96
- 53) I. Favier, D. Picurelli, C. Pradel, J. Durand, **B. Milani**, M. Gomez
Stabilization of Pd, Pt and Ru nanoparticles by optically active CO/styrene copolymers
Inorg. Chem. Commun. 2010, 13, 766-768.
I.F. = 1.974 N.C. = 4
- 54) A. D'Amora, L. Fanfoni, D. Cozzula, N. Guidolin, E. Zangrando, F. Felluga, S. Gladiali, F. Benedetti, **B. Milani***
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57) V. Khlebnikov, A. Meduri, H. Mueller-Bunz, T. Montini, P. Fornasiero, E. Zangrando, **B. Milani***, M. Albrecht*

Palladium Carbene Complexes for Selective Alkene Di- and Oligomerization

Organometallics, 2012, 31, 976-986

I.F. = 4.145 N.C. = 42

58) A. Meduri, D. Cozzula, A. D'Amora, E. Zangrando, S. Gladioli, **B. Milani***

Unique *syndio*-selectivity in CO/styrene copolymerization reaction catalyzed by palladium complexes with 2-(2'-oxazoliny)-1,10-phenanthrolines

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59) V. Khlebnikov, A. Meduri, H. Mueller-Bunz, **B. Milani***, M. Albrecht*

Synthesis of a sterically modulated pyridine-NHC palladium complex and its reactivity towards ethylene

New Journal of Chemistry, 2012, 36, 1552-1555

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60) A. Meduri, T. Montini, F. Ragaini, P. Fornasiero, E. Zangrando, **B. Milani***

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62) V. Rosar, A. Meduri, T. Montini, F. Fini, C. Carfagna, P. Fornasiero, G. Balducci, E. Zangrando, **B. Milani***

Analogies and differences in palladium-catalyzed CO/styrene and ethylene/methyl acrylate copolymerization reactions

ChemCatChem, 2014, 6, 2403-2418

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63) A. Tognon, V. Rosar, N. Demitri, T. Montini, F. Felluga, **B. Milani***

Coordination chemistry to palladium(II) of pyridylbenzamidine ligands and the related reactivity with ethylene

Inorg. Chim. Acta, 2015, 431, 206-218

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- 67) V. Rosar, D. Dedeic, T. Nobile, F. Fini, G. Balducci, E. Alessio, C. Carfagna, **B. Milani***
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VIP paper
The cover of the issue is dedicated to this paper.
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In situ generated Pd(0) nanoparticles stabilized by bis(aryl)acenaphthenequinone diimines as catalysts for aminocarbonylation reactions in water
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- 70) **B. Milani**, G. Licini, E. Clot, M. Albrecht
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- 71) V. Rosar,* T. Montini, G. Balducci, E. Zangrando, P. Fornasiero, **B. Milani***
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- 73) F. Battistin, G. Balducci, **B. Milani**, E. Alessio*
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Olefin dimerization and isomerization catalyzed by pyridylideneamide palladium complexes
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Palladium Alkyl Complexes with a Formazanate Ligand: Synthesis, Structure and Reactivity
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PUBLICATIONS ON NON INDEXED JOURNALS

1) E. Alessio, **B. Milani**, M. Bolle, G. Mestroni, P. Faleschini, F. Todone, M. Calligaris, S. Geremia
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complexes.
Synthesis and Methodologies in Inorganic Chemistry. New Compounds and Materials. Edited by S.
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2) **B. Milani**, L. Vicentini, A. Sommazzi, F. Garbassi, E. Chiarparin, E. Zangrando, G. Mestroni
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Synthesis and methodologies in inorganic chemistry. New compounds and materials. Edited by: S.
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3) N. Furlan, G. Fontolan, L. Sartore, **B. Milani**, R. Mosca, S. Meriani
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INDUSTRIAL PATENTS

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 European Patent, N. 93200331.2 (1993)
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- 2) **B. Milani**, G. Mestroni, A. Sommazzi, F. Garbassi
 Procedimento per la preparazione di copolimeri a base di ossido di carbonio ed almeno un composto
 avente un'insaturazione alchenilica
 Italian Patent, N. MI95/A 000337 (1995)
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- 4) A. Sommazzi, F. Garbassi, G. Mestroni, **B. Milani**, L. Vicentini
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 un composto contenente un'insaturazione alchenilica
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- 5) A. Sommazzi, F. Garbassi, G. Mestroni, **B. Milani**
 Procedimento per la preparazione di copolimeri a base di ossido di carbonio ed almeno un composto
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 Italian Patent, N. MI96/A 00743 (1996).
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- 6) A. Sommazzi, **B. Milani**, A. Proto, G. Corso, G. Mestroni, F. Masi,
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 Italian Patent, N. MI99A 001764 (1999).

- 7) G. Mestroni, C. Bianchini, A. Sommazzi, E. Zangrando, **B. Milani**, G. Mantovani, F. Masi, A.
 Meli, R. Santi
 Leganti tridentati e loro complessi con metalli di transizione.
 Italian Patent, N. MI2000A001737 (2000).
 WO Patent 02/10133 A1 (2002).

CURATELE

- 1) E. Alessio, E. Iengo, B. Milani
 Translation from English to Italian of the book "Inorganic Chemistry" 2nd Italian Edition by
 Zanichelli on the base of 5th English Edition, Authors P. Atkins, T. Overtone, J. Rourke, M. Weller,
 F. Armstrong.

INVITED LECTURES at UNIVERSITIES & COMPANIES**1) B. Milani**

Pd(II) complexes with bidentate nitrogen-donor chelating ligands: very versatile and active catalyst precursors for the CO/olefin co- and terpolymerisation reactions

Shell International (invited by Dr. Pim Mul)

Amsterdam March 1999

2) B. Milani

Pd(II) complexes with bidentate nitrogen-donor chelating ligands: very versatile and active catalyst precursors for the CO/olefin co- and terpolymerisation reactions

University of Amsterdam (invited by Prof. Dr. Kees Elsevier)

Amsterdam March 1999

3) B. Milani

CO/olefin co- and terpolymerisation reactions promoted by Pd(II) complexes: effect of the ancillary ligand.

ETH of Zürich (invited by Prof. Giambattista Consiglio)

Zürich December 1999

4) B. Milani

CO/styrene copolymerization reactions promoted by Pd(II) complexes: towards the stabilization of the catalytic system.

University of Padova (invited by Prof. Roberta Bertani)

Padova March 2001

5) B. Milani

CO/olefins copolymerization reactions promoted by Pd(II)-N-N complexes: A mechanistic investigation.

ETH of Zürich (invited by Dr. Antonio Mezzetti)

Zürich May 2002

6) B. Milani

From Natta to nowadays: 50 years of catalysis for polymerization

University of Urbino (invited by Dr. Carla Carfagna)

Urbino May 2003

7) B. Milani

Control of productivity, molecular weight and stereochemistry in Pd-catalysed synthesis of polyketones

University of Amsterdam (invited by Prof. Dr. Kees Elsevier)

Amsterdam October 2003

8) B. Milani

From ligands to polymers: adventures in palladium-catalyzed polymerization reactions

Eindhoven University of Technology (invited by Prof. Dr. Dieter Vogt)

Eindhoven (The Netherlands) September 2004

9) B. Milani

From ligands to polymers: adventures in palladium-catalyzed polymerization reactions

University Paul Sabatier of Tolosa (invited by Prof. Dr. Montserrat Gomez)

Toulouse (Franch) May 2005

10) B. Milani

Palladium-catalyzed polyketone synthesis: shedding light on the control of catalyst stability and polymer stereochemistry

ETH Zürich (invited by Dr. Antonio Mezzetti)

Zürich (Switzerland) June 2006

11) B. Milani

Palladium-catalyzed polyketone synthesis: shedding light on the control of catalyst stability and polymer stereochemistry

Université Luis Pasteur (invited by Prof. Pierre Braunstein)

Strasburgo (France) November 2006

12) B. Milani

Il controllo della stabilità del catalizzatore e della stereochimica dei polimeri nelle reazioni di copolimerizzazione CO/alchene catalizzate da complessi di palladio

Università di Milano (invited by Prof. Fabio Ragaini)

Milano February 2007

13) B. Milani

Polimerizzazione catalitica stereocontrollata: la sintesi dei polichetoni CO/olefina

Università di Padova (invited by Prof. Giulia Licini)

Padova June 2007

14) B. Milani

Recent Developments in Palladium-Catalyzed Polyketones Synthesis

NanoConfCat Meeting Università Paul Sabatier di Tolosa (invito del Prof. Philippe Serp)

Tolosa (Francia) Marzo 2008

15) B. Milani

From ligands to polymers in Pd-catalyzed polyketones synthesis: shedding light on catalyst stability and polymer structure

Universitat Rovira I Virgili (invited by Prof. Carmen Claver)

Tarragona (Spain) October 2008

16) B. Milani

From ligands to polymers in Pd-catalyzed polyketones synthesis: shedding light on catalyst stability and polymer structure

University of Zaragoza (invited by Prof. Luis Oro)

Zaragoza (Spain) October 2008

17) B. Milani

Pd-catalyzed carbonylation reactions: how subtle changes in the ligand electronic properties can induce large effects

University of Fribourg (invited by Prof. Martin Albrecht)

Fribourg (Switzerland) June 2009

18) B. Milani

Pd-catalyzed carbonylation reactions: how subtle changes in the ligand electronic properties can induce large effects

ETH - Zürich (invited by Prof. Antonio Mezzetti)

Zürich (Switzerland) June 2009

19) B. Milani

Pd-catalyzed carbonylation reactions: how subtle changes in the ligand electronic properties can induce large effects

Università di Sassari (invited by Prof. Serafino Gladiali)

Sassari (Italy) March 2010

20) B. Milani

Pd-catalyzed carbonylation reactions: how subtle changes in the ligand electronic properties can induce large effects

ENSIACET (invited by Prof. Philippe Serp)

Toulouse (France) October 2010

21) B. Milani

Pd-catalyzed oligo- and polymerization reactions: large effects induced by a subtle unbalance of the chelating ancillary ligands

University of Amsterdam (invited by Prof. Kees Elsevier)

Amsterdam (The Netherlands) September 2011

22) B. Milani

Pd-catalyzed oligo- and polymerization reactions: large effects induced by a subtle unbalance of the chelating ancillary ligands

DSM (invited by Prof. Hans de Vries)

Geelen (The Netherlands) September 2011

23) B. Milani

Towards sustainable catalysts for precision polymerization

University Rovira i Virgili (ERASMUS Teaching Staff Mobility)

Tarragona (Spain) March 2012

24) B. Milani

Towards sustainable catalysts for tailored-made polymers

BASF (invited by Ivette Garcia-Castro)

Ludwigshafen (Germany) June 2012

25) B. Milani

Towards sustainable catalysts for tailored-made polymers

University College Dublin (invited by Prof. Martin Albrecht)

Dublin (Ireland) October 2012

26) B. Milani

Towards sustainable catalysts for tailored-made polymers

SABIC (invited by Dr. Rob Duchateau)

Geleen (The Netherlands) February 2013

27) **B. Milani**

New nonsymmetric α -diimines as ligand of Pd-catalyzed copolymerization reactions
University of Konstanz (invited by Prof. Stefan Mecking)
Konstanz (Germany) June 2013

28) **B. Milani**

Frontiers in catalysis for controlled polymerization
University of Padova (invited by board of PhD School)
Padova (Italy) June 2013

29) **B. Milani**

Catalytic ethylene/acrylic ester copolymerization: a challenging reaction
Universitata Rovira i Virgili (invited by Prof. Elena Fernandez)
Tarragona (Spain) April 2014

30) **B. Milani**

Catalytic ethylene/acrylic ester copolymerization: a challenging reaction
University Pierre et Marie Curie (invited by Prof. Giovanni Poli)
Paris (France) May 2014

31) **B. Milani**

Catalysis for controlled polymerization
University of Lille (invited by Prof. Mathieu Sauthier)
Lille (France) May 2014

32) **B. Milani**

Catalysis for controlled polymerization
University of Pierre et Marie Curie (invited by Prof. Laurent Boutellier)
Ivry sur Seine (France) June 2014

33) **B. Milani**

Catalytic ethylene/acrylic ester copolymerization: a challenging reaction
University of Amsterdam (invited by Prof. Kees Elsevier)
Amsterdam (The Netherlands) October 2014

34) **B. Milani**

Catalytic ethylene/acrylic ester copolymerization: a challenging reaction
University of Salerno (invited by Prof. Claudio Pellecchia)
Salerno (Italy) June 2015

35) **B. Milani**

Catalytic ethylene/acrylic ester copolymerization: a challenging reaction
University of Salerno (invited by Prof. Claudio Pellecchia)
Salerno (Italy) June 2015

36) B. Milani

Pd-catalyzed polyketone synthesis: unprecedented comonomer control on the polymer stereochemistry

Tecnico Lisboa (invited by Prof. Pedro Gomez)

Lisbon (Portugal) March 2017

37) B. Milani

Pyridyl imines: versatile ligands for palladium-catalyzed polymerization reactions

Universitat Rovira I Virgili (invited by Prof. Elena Fernandez)

Tarragona (Spain) March 2017

38) B. Milani

Ligand desymmetrization: a powerful strategy in catalysis for polymerization

University of Bern (invited by Prof. Martin Albrecht)

Bern (Switzerland) March 2019

INVITED LECTURES at CONFERENCES1) **B. Milani**, G. Mestroni

Pd(II) complexes with nitrogen-donor chelating ligands as catalyst precursors in the CO/olefin copolymerization reactions.

XV Meeting of Croatian Chemists and Chemical Engineers

Abbazia (CRO), 24 - 26 March 1997

Book of abstracts pg. 19; P-10.

2) **B. Milani**, A. Marson, E. Zangrando, G. Mestroni

CO/olefins copolymerisation reactions promoted by Pd(II)-(N-N) complexes: a mechanistic investigation

6th FIGIPS Meeting in Inorganic Chemistry

Barcelona (Spain), 15-20 July 2001

Session Lecture

Book of abstracts SL.06.1

3) **B. Milani**

New catalysts for copolymerisation of olefins and polar monomers

Workshop Meeting of the COST Action D17

Warwick (UK), 27 - 28 July 2002.

4) **B. Milani**

Palladium and nitrogen-donor ligands: a good combination for the synthesis of CO/aromatic olefin polyketones

13th International Symposium on Homogeneous Catalysis

Tarragona (Spain), 3-7 September 2002

Keynote Lecture

Book of abstracts K. 13.

5) **B. Milani**

Control of productivity, molecular weight and stereochemistry in Pd-catalysed synthesis of polyketones

XVth FEICHEM Conference on Organometallics Chemistry

Zürich (Switzerland), 10 – 15 August 2003

Invited Lecture

Book of abstracts IL22.

6) **B. Milani**

The Pivotal role of solvent in palladium-catalyzed polymerization reactions.

XXXVI International Conference on Coordination Chemistry

Merida (Mexico), 18 – 23 July 2004

Session Lecture

Book of abstracts SL 3.06.

7) **B. Milani**

On the way towards high performing catalysts for the stereocontrolled Pd-promoted polymerization reactions.

2nd Working group meeting – COST Action D29

Regensburg (Germany), 8 – 9 June 2005

8) **B. Milani**

Control of stereochemistry in palladium catalyzed polymer synthesis

COST-Action D40 – 1st meeting

Dublin (Ireland), 20 – 22 Maggio 2007

9) **B. Milani**

Recent developments in Pd-catalyzed polyketone synthesis

COST-Action D40 – 2nd meeting

Tarragona (Spain), 20 – 22 May 2008

10) **B. Milani**

Ligand symmetry and polymer tacticity in Pd-catalyzed stereocontrolled polyketone synthesis

4th EuCheMS Conference on Nitrogen Ligands

Garmisch-Partenkirchen (Germany), 24 – 28 August 2008

Session Lecture

Book of abstracts SL19

11) **B. Milani**

Effect of 6-alkyl-substituted 2,2'-bipyridines in Pd-catalyzed styrene carbonylation: shifting the selectivity from polyketones to oligoketones

COST-Action D40 – 3rd meeting

Turku (Finland), 25 – 28 May 2009

12) **B. Milani**

Pd-catalyzed oligo- and polymerization reactions: how subtle changes in the ligand properties can induce large effects

International Symposium on Homogeneous Catalysis

Invited Lecturer

Poznan (Poland), 4 – 9 July 2010

Book of abstract IL11

13) **B. Milani**

Phenanthrolines and bipyridines: versatile ligands for homogeneous catalysis

“Homogeneous Catalysis in a Changing World” Symposium in the honour of Serafino Gladiali

Invited Lecturer

Sassari (Italy), 30 May 2011

14) **B. Milani**

Palladium complexes with N-donor ligands as homogeneous catalysts for controlled polymerizations

“Giving wings to homogeneous catalysts” Symposium in the honour of Piet van Leeuwen

Invited Lecturer

Tarragona (Spain), 3rd February 2012

15) **B. Milani**

Frontiers in catalysis for controlled polymerization

EFCATS Summer School - 2012

Invited Lecturer

Pallanza (Italy), September 11th-15th 2012

16) **B. Milani**

Palladium catalyzed CO/vinyl arene and ethylene/acrylate copolymerizations: analogies and differences

XLI National Conference of the Inorganic Chemistry Division of the Italian Chemical Society

Keynote Lecturer

Parma (Italy), September 3rd-6th 2013

17) **B. Milani**

Pyridylimines: versatile ligands for palladium-catalyzed polymerization reactions

COST-Action CM1205 – 4th meeting

Ljubljana (Slovenia), 21 – 23 March 2016

18) **B. Milani**

Pyridylimines: versatile ligands for palladium-catalyzed polymerization reactions

XII Congresso del Gruppo Interdivisionale di Chimica Organometallica Co.G.I.C.O 2016

Keynote Lecturer

Genova (Italy), 5 – 8 June 2016

POSTERS and ORAL PRESENTATIONS at CONFERENCES

1) **B. Milani**, E. Alessio, G. Mestroni

Selective dioxygen oxidation of thioethers to their sulfoxides with ruthenium-dimethyl sulfoxide complexes as catalysts

Seventh International Symposium on Homogeneous Catalysis

Lyon; 3-7 September 1990

Book of abstracts pg. 293 p-84

2) A. Sommazzi, F. Garbassi, **B. Milani**

[Pd(chel)₂][PF₆]₂ (chel = 2,2'-bipyridil, 1,10-phenanthroline): efficient catalysts for the carbon monoxide - olefins copolymerization

Eighth International Symposium on Homogeneous Catalysis

Amsterdam; 2-7 August 1992

Book of abstracts pg. P-314

3) **B. Milani**, G. Mestroni, A. Sommazzi, F. Garbassi

[Pd(chel)₂][PF₆]₂ (chel = 2,2'-bipyridil, 1,10-phenanthroline): efficient catalysts for the carbon monoxide - olefins copolymerization

Eighth National Congress on Catalysis and Minisymposium on Supported Metals

Rimini; 30 September - 2 October 1992

Book of abstracts pg. CO4

Oral Presentation by B. Milani

4) **B. Milani**, E. Alessio, G. Mestroni, E. Zangrando, L. Randaccio

Synthesis and characterization of a new series of palladium(II) compounds with nitrogen-donor chelating ligands: [Pd(chel)(L)₂][PF₆]₂

The Chemistry of the Platinum Group Metals

St. Andrews; 11-16 July 1993

Book of abstracts pg. C 156

- 5) A. Sommazzi, **B. Milani**, F. Garbassi, G. Mestroni
Copolymerization reactions of carbon monoxide - olefins catalyzed by neutral monochelated palladium(II) complexes
The Chemistry of the Platinum Group Metals
St. Andrews; 11-16 July 1993
Book of abstracts pg. B 209
- 6) **B. Milani**, E. Alessio, G. Mestroni
Palladium(II) complexes with nitrogen-donor chelating ligands: synthesis, characterization and catalytic activity in the carbon monoxide - olefins copolymerization
XXII Congresso Nazionale di Chimica Inorganica
Villa Simius; 26 September - 1 October 1993
Book of abstracts pg. 431; SR 32
- 7) E. Alessio, **B. Milani**, M. Bolle, G. Mestroni, P. Faleschini, S. Geremia, M. Calligaris
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- 10) **B. Milani**, L. Vicentini, A. Sommazzi, F. Garbassi, G. Mestroni
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- 11) **B. Milani**, L. Vicentini, A. Sommazzi, F. Garbassi, G. Mestroni
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- 12) **B. Milani**, G. Mestroni, A. Sommazzi, F. Garbassi
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- 13) G. Mestroni, **B. Milani**, L. Vicentini, A. Sessanta o Santi, A. Sommazzi, F. Garbassi
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- 17) **B. Milani**, G. Corso, G. Mestroni, C. Carfagna, M. Formica, A. Musco
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- 18) **B. Milani**, G. Corso, G. Mestroni, C. Carfagna, M. Formica, A. Musco

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20) **B. Milani**, G. Corso, G. Mestroni

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21) E. Zangrando, **B. Milani**, G. Corso, L. Randaccio, G. Mestroni

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22) G. Bellachioma, G. Cardaci, A. Macchioni, M. Travaglia, **B. Milani**, G. Mestroni, G. Corso, C. Carfagna, M. Formica

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23) **B. Milani**, G. Mestroni, R. Seraglia

The mechanism of CO/styrene copolymerization: a MALDI/MS investigation.

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24) **B. Milani**, C. Carfagna, R. Seraglia, G. Mestroni

Palladium promoted CO/styrene copolymerization: new insights about its mechanism.

27th Congresso di Chimica Inorganica

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25) A. Macchioni, G. Bellachioma, C. Carfagna, G. Cardaci, **B. Milani**, C. Zuccaccia
Counterion effect on CO/styrene copolymerization catalyzed by cationic Pd(II) organometallic complexes.

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26) **B. Milani**, A. Mistaro, E. Zangrando, C. Carfagna, S. Gladiali, G. Mestroni
High molecular weight CO/styrene polyketones synthesized by palladium compounds with nitrogen ligands.

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27) **B. Milani**, M. Bianco, E. Zangrando, G. Mestroni, A. Sommazzi, C. Zannoni
Polymerization of polar olefins promoted by organometallic Co(III) complexes: free-radical or coordinative process?

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28) **B. Milani**, A. Mistaro, E. Zangrando, G. Mestroni, C. Carfagna, S. Gladiali
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29) **B. Milani**, A. Mistaro, G. Mestroni

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30) **B. Milani**, G. Mestroni

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- 32) G. Mestroni, **B. Milani**, C. Carfagna, S. Gladiali
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- 33) **B. Milani**, A. Scarel, E. Zangrando, G. Mestroni, S. Gladiali, C. Carfagna
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- 34) A. Scarel, B. Milani, E. Zangrando, G. Mestroni, C. Carfagna, B. Binotti
Cationic palladium complexes with mono- and bidentate nitrogen-donor ligands: synthesis, characterisation and reactivity in CO/styrene copolymerisation reaction
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- 35) J. Durand, **B. Milani**, G. Mestroni
New bidentate nitrogen-donor ligands for CO/styrene copolymerisation
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- 36) M.Barban, **B. Milani**, E. Zangrando, C. Carfagna, G. Mestroni
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- 37) A. Scarel, **B. Milani**, E. Zangrando, C. Carfagna, R. Seraglia, G. Mestroni
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- 38) A. Scarel, **B. Milani**, E. Zangrando, G. Mestroni
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- 39) A. Scarel, **B. Milani**, E. Zangrando, G. Mestroni
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Poster presented by A. Scarel
- 40) M. Barban, **B. Milani**, E. Zangrando, C. Carfagna, G. Mestroni
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- 41) J. Durand, **B. Milani**, E. Zangrando, G. Mestroni, C. Carfagna, S. Gladioli
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Poster presented by J. Durand.
- 42) F. A. Bella, A. Bastero, A. Ruiz, C. Claver, **B. Milani**, B. Moreno, A. F. Jalon, B. R. Manzano
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- 43) A. Scarel, J. Durand, **B. Milani**, E. Zangrando, C. Carfagna, G. Consiglio, G. Mestroni
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- 45) J. Durand, **B. Milani**, E. Zangrando, C. Carfagna, C. Müller, D. Vogt, P. Kamer, P. van Leeuwen
Long-lived palladium catalysts for CO/vinyl arene polyketones synthesis: a solution to deactivation problems.
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- 46) A. F. Bella, A. Bastero, A. Ruiz, C. Godard, J. Durand, C. Claver, **B. Milani**, F. Sepulveda, F. A. Jalon, B. R. Manzano
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- 47) **B. Milani**, A. Scarel, E. Zangrando, C. Carfagna, R. Seraglia
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- 48) J. Durand, **B. Milani**, E. Zangrando, C. Carfagna, C. Müller, D. Vogt, P. C. Kamer, P. W. N. M. van Leeuwen
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- 49) A. Scarel, **B. Milani**, E. Zangrando, C. Carfagna, F. Ragaini, C. J. Elsevier
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- 50) **B. Milani**, A. Scarel, E. Zangrando, C. Carfagna, F. Ragaini, C. J. Elsevier
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- 51) **B. Milani**, A. Scarel, M. R. Axet, E. Zangrando, C. Carfagna, F. Ragaini, C. J. Elsevier
Electronic and steric effects of *meta*-substituted Ar-BIAN ligands in the Pd-catalyzed CO/vinyl arene copolymerisation reaction
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- 52) M. R. Axet, A. Scarel, E. Zangrando, F. Ragaini, **B. Milani**
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- 53) **B. Milani**, F. Amoroso, M. R. Axet, E. Zangrando, F. Faraone, D. Drommi, M. Saporita
Application of amine-imine ligands in Pd-catalyzed polyketones synthesis: effect of the ligand backbone on the polymer stereochemistry
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- 54) **B. Milani**, F. Amoroso, C. Müller, E. Zangrando, F. Ragaini, M. Hagar, C. J. Elsevier, D. Vogt
Non-symmetric Ar-BIAN ligands in the Pd-catalyzed polyketone synthesis: a kinetic investigation
IX Netherlands' Catalysis and Chemistry Conference
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Poster presented by B. Milani
- 55) E. Farnetti, **B. Milani**
From CO/alkene polyketones to polyalcohols via iridium-catalyzed transfer hydrogenation
XVI International Symposium on Homogeneous Catalysis
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Poster presented by B. Milani
- 56) I. Favier, F. Fernandez, G. Muller, E. Teuma, **B. Milani**, M. Gomez
Metallic nanoparticles stabilized by functionalized polymers: effect on catalytic hydrogenations
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- 57) **B. Milani**, F. Amoroso, C. Müller, E. Zangrando, F. Ragaini, M. Hagar, C. J. Elsevier, D. Vogt
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58) **B. Milani**, F. Amoroso, A. D'Amora, E. Zangrando, R. Seraglia, F. Faraone

Control of stereochemistry in polyketone synthesis catalyzed by Pd-complexes with chiral amine-imine ligands

XXIII International Conference on Organometallic Chemistry

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Poster presented by B. Milani

59) A. D'Amora, L. Fanfoni, F. Felluga, E. Zangrando, D. Cozzula, S. Gladiali, F. Benedetti, **B. Milani**

Effect of 6-alkyl substituted 2,2'-bipyridines in the Pd-catalyzed styrene carbonylation: shifting the selectivity from polyketones to oligoketones

X Netherlands' Catalysis and Chemistry Conference

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Oral presentation by A. D'Amora

60) A. Campos-Carrasco, C. Tortosa-Estorch, A. D'Amora, **B. Milani**, W. Leitner, A. M. Masdeu-Bultó

New perfluorinated 2,2'-bipyridine ligands applied to the Pd-catalyzed CO/styrene copolymerization in green and conventional media

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Poster presented by A. Campos-Carrasco

61) D. Ret, V. Khlebnikov, M. Albrecht, **B. Milani**

Pd-carbene complexes as catalysts for alkene dimerization: preliminary investigation

COST D40 Annual Meeting, Ankara (Turchia) 25 – 27 May 2010

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Poster presented by B. Milani

62) L. Fanfoni, A. Meduri, E. Zangrando, S. Castillon, F. Felluga, **B. Milani**

New hybrid P-N ligands: coordination chemistry to palladium and catalytic activity in alkene dimerization

International School on polymer synthesis and characterization ISOPSC – 2010

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63) L. Fanfoni, A. Meduri, E. Zangrando, S. Castillon, F. Felluga, **B. Milani**

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- 64) **B. Milani**, A. Meduri, E. Zangrando, T. Montini, P. Fornasiero
Pd-catalyzed ethylene/methyl acrylate copolymerization: effect of nonsymmetric N-donor ligands
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Noordwijkerhout (The Netherlands), 28 February – 2 March 2011
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Poster presented by B. Milani
- 65) **B. Milani**
Overview of oligo- and polymerization catalysts developed inside COST Action D40
COST D40 Annual Meeting, La Valletta (Malta) 14 – 16 June 2011
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- 66) A. Meduri, D. Cozzula, G. Armani, E. Zangrando, S. Gladiali, **B. Milani**
Pd(II) complexes with tridentate nitrogen-donor ligands; synthesis, characterisation and catalytic behavior in styrene carbonylation
8th International School of Organometallic Chemistry
Camerino (Italy), 27 – 31 August 2011
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Poster presented by A. Meduri
- 67) A. Meduri, D. Cozzula, G. Armani, E. Zangrando, S. Gladiali, **B. Milani**
Unique syndio-selectivity in CO/styrene copolymerization reaction by palladium complexes with 2-(2'-oxazolinyl)-1,10-phenanthrolines
5th EUCHEM Conference on Nitrogen Ligands
Granada (Spain), 4 – 8 September 2011
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Poster presented by S. Gladiali
- 68) A. Meduri, T. Montini, E. Zangrando, P. Fornasiero, **B. Milani**
Effect of nonsymmetric N-donor ligands in Pd-catalyzed alkene/acrylic ester copolymerization
XXIV Congresso Nazionale della Società Chimica Italiana
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- 69) A. Meduri, T. Montini, E. Zangrando, P. Fornasiero, **B. Milani**
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Padova (Italy), 5 – 8 June 2012-08-01
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Oral presentation by A. Meduri
- 70) V. Rosar, A. Meduri, E. Zangrando, A. Grassi, **B. Milani**
Pd complexes with naphthalene α -diimines as catalysts for copolymerization: from atactic to stereoblock copolymers?
X Co.G.I.C.O. – X Congresso del Gruppo Interdivisionale di Chimica Organometallica
Padova (Italy), 5 – 8 June 2012

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Poster presented by V. Rosar

71) **B. Milani**, A. Meduri, T. Montini, E. Zangrando, P. Fornasiero
Breaking the ligand symmetry in Pd-catalyzed ethylene/methyl acrylate copolymerization
18th International Symposium on Homogeneous Catalysis
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72) **B. Milani**, A. Meduri, V. Rosar, T. Montini, F. Ragaini, P. Fornasiero, E. Zangrando
Nonsymmetric α -diimines in Pd-catalyzed ethene/polar monomer copolymerization
20th EuCheMS Conference on Organometallic Chemistry
St. Andrews (United Kingdom), June 30th – July 4th 2013
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Poster presented by B. Milani

73) V. Rosar, A. Meduri, E. Zangrando, T. Montini, P. Fornasiero, C. Carfagna, **B. Milani**
Comparing Pd-catalyzed CO/vinyl arene and ethylene/acrylate copolymerization
20th EuCheMS Conference on Organometallic Chemistry
St. Andrews (United Kingdom), June 30th – July 4th 2013
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Poster presented by V. Rosar

74) V. Rosar, **B. Milani**, S. Mecking
Palladium-Catalyzed Bis-Alkoxyacylation to Produce Valuable Succinic Esters From Internal Alkenes and CO
2nd CARISMA Meeting – COST Action
Tarragona (Spain), March 18th – 20th 2015
Poster presented by V. Rosar

75) **B. Milani**
Unprecedented stereocontrol in palladium-catalyzed CO/vinyl arene polyketone synthesis
2nd CARISMA Meeting – COST Action
Tarragona (Spain), March 18th – 20th 2015
Oral presentation by B. Milani

76) A. Tognon, V. Rosar, N. Demitri, T. Montini, F. Felluga, **B. Milani**
Pyridylbenzamidines: versatile ligands for palladium(II)
XL International Summer School on Organic Synthesis "A. Corbella"
Gargnano (Italy), June 14th -18th 2015
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Poster and oral presentation presented by V. Rosar

77) Dinuclear Organometallic Pd(II) Complexes with Iminopyridines: the Importance of Methyl Groups
V. Rosar, T. Nobile, T. Montini, P. Fornasiero, E. Zangrando, G. Balducci, N. Demitri, **B. Milani**
XXI EuCheMS International Conference on Organometallic Chemistry
Bratislava, July 5th – 9th 2015
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Poster presented by B. Milani

78) From nonsymmetric BIANs to nonsymmetric DABs: towards efficient Pd-catalysts for functionalized polyolefin synthesis

B. Milani, V. Rosar, T. Montini, G. Balducci, P. Fornasiero

XLIII Congresso Nazionale di Chimica Inorganica

Camerino, September 9th – 12th 2015

Book of abstract pg. 45

Oral presentation by B. Milani

79) Coordination Chemistry of Formazanate Ligands to Palladium

F. Milocco, R. Travieso Puente, V. Rosar, E. Zangrando, E. Otten, **B. Milani**

COST-Action CM1205 – 4th meeting

Ljubljana (Slovenia), 21 – 23 March 2016

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Oral presentation by F. Milocco

80) Comparing BIAN and DAB Pd-catalysts in CO/styrene and ethylene/methyl acrylate copolymerization: a DFT study

V. Rosar, T. Kraemer, **B. Milani**, S. Macgregor

COST-Action CM1205 – 4th meeting

Ljubljana (Slovenia), 21 – 23 March 2016

Book of abstract

Poster presented by V. Rosar

81) Coordination Chemistry of Formazanate Ligands to Palladium

F. Milocco, R. Travieso Puente, V. Rosar, E. Zangrando, E. Otten, **B. Milani**

XLIV National Conference of Inorganic Chemistry

Padova, September 14th - 17th, 2016

Book of abstract: pg. 103, poster P27

Poster presented by B. Milani

82) Synthesis of Ar-BICAT molecules to be used as ancillary ligands for palladium and platinum complexes

C. Glessi, M. Tilset, **B. Milani**

COST-Action CM1205 – 5th meeting

Lisbon (Portugla), 6 – 8 March 2017

Poster presented by C. Glessi

83) Pd-catalyzed CO/vinyl arene copolymerization: when the comonomer controls the stereochemistry

D. Dedeic, H. Spieser, V. Rosar, J. Durand, G. Balducci, **B. Milani**

COST-Action CM1205 – 5th meeting

Lisbon (Portugal), 6 – 8 March 2017

Oral presentation by V. Rosar

84) A. Dall'Anese, F. Felluga, G. Balducci, **B. Milani**

Effect of the α -diimine skeleton in Pd-catalyzed copolymerization reactions

XI Edition of the International School of Organometallic Chemistry

San Benedetto del Tronto, 2 – 6 September 2017

Book of abstract P15

Poster presented by A. Dall'Anese

85) **B. Milani**, A. Dall'Anese, V. Rosar, D. Dedeic, M. Fiorindo, G. Balducci, C. Carfagna, J. Durand

Pd-catalyzed CO/vinyl arene polyketone synthesis: unprecedented comonomer effect on copolymer stereochemistry

21st International Symposium on Homogeneous Catalysis (ISHC)

Amsterdam, July 8th – 13th, 2018

Book of abstract P67

Poster presented by B. Milani

86) **B. Milani**, A. Dall'Anese, V. Rosar, G. Balducci, C. Carfagna, J. Durand

Catalytic synthesis of CO/vinyl arene polyketones: when the comonomer affects the stereochemistry

28th International Conference on Organometallic Chemistry (ICOMC)

Florence, July 15th-20th, 2018

Book of abstract P180

Poster presented by B. Milani

87) A. Dall'Anese, T. Montini, P. Fornasiero, F. Felluga, G. Balducci, **B. Milani**

Pd(II)- α -diimines catalysts for functionalized polyolefin synthesis: from the acenaphthene to the phenanthrene skeleton

28th International Conference on Organometallic Chemistry (ICOMC)

Florence, July 15th-20th, 2018

Book of abstract: P048

Poster presented by A. Dall'Anese.

88) A. Vidal, F. Battistin, G. Balducci, **B. Milani**, E. Alessio

Novel water soluble ruthenium(II) carbonyls with PTA (PTA = 1,3,5-tiaza-7-phosphoadamantane)

28th International Conference on Organometallic Chemistry (ICOMC)

Florence, July 15th-20th, 2018

Book of abstract: P393

Poster presented by A. Vidal.

89) A. Dall'Anese, T. Montini, G. Balducci, P. Fornasiero, F. Felluga, **B. Milani**

Pd(II)-catalysed copolymerization reactions: effect of symmetrical and nonsymmetrical α -diimines catalysts with a phenanthrene skeleton

46^o Congresso Nazionale di Chimica Inorganica

Bologna, September 10th – 13th, 2018

Book of abstract: OC51

Oral communication presented by A. Dall'Anese.

Teaching Activity

Teaching activities for undergraduate students

- Academic Years 2015/2016, 2016/2017, 2017/2018, 2018/19:

Laboratory of Inorganic Chemistry for 3rd year students of Bachelor Course in Chemistry
 Homogeneous Catalysis for students of Master Course in Chemistry
 General and Fundamental Chemistry for 1st year students of Bachelor Course in Geology

- Academic Year 2014/2015:

Laboratory of Inorganic Chemistry for 3rd year students of Bachelor Course in Chemistry
 Homogeneous Catalysis for students of Master Course in Chemistry
 Teaching of Chemistry for High School Teachers

- Academic Years 2011/2012, 2012/2013, 2013/2014:

Laboratory of Inorganic Chemistry for 3rd year students of Bachelor Course in Chemistry
 Homogeneous Catalysis for students of Master Course in Chemistry

- Academic Year 2010/2011:

Laboratory of Inorganic Chemistry for 3rd year students of Bachelor Course in Chemistry
 Homogeneous Catalysis for students of Master Course in Chemistry
 Bioinorganic Chemistry for students of Master Course in Natural Science

- Academic Year 2009/2010:

Laboratory of Inorganic Chemistry for 3rd year students of Bachelor Course in Chemistry
 Homogeneous Catalysis for students of Master Course in Chemistry

- Academic Year 2008/2009:

Fundamental Chemistry with Laboratory for first year students of Science and Technology for Environmental and Nature
 This Course is also addressed to the students of Geology
 Catalysis for Polymerization for students of Master Course in Chemistry
 Bioinorganic Chemistry for students of Master Course in Natural Science
 Lab Assistant for Laboratory of Fundamental Chemistry for first year student of Chemistry
 Lecture on "Fundamentals in CO/alkene copolymerization" for students of Master in Catalysis Universitat Rovira i Virgili Tarragona Spain

- Academic Years 2005/2006, 2006/2007, 2007/2008:

Fundamental Chemistry for first year students of Natural Science
 Fundamental Chemistry in the Laboratory for first year students of Natural Science
 Catalysis for Polymerization for students of Master Course in Chemistry
 Lab Assistant for Laboratory of Fundamental Chemistry for first year student of Chemistry

- Academic Year 2004/2005:

Lab Assistant for Laboratory of Fundamental Chemistry for first year student of Chemistry

- Academic Year 2003/2004:

Fundamental Chemistry for first year students of Dentistry
 Laboratory of Fundamental Chemistry for first year students of Chemistry

- **Academic Years 2001/2002, 2002/2003:**

Laboratory of Fundamental Chemistry for first year students of Chemistry

Lab Assistant for Laboratory of Fundamental Chemistry for first year student of Biology

- **Academic Years 1998/99, 1999/2000, 2000/2001:**

Lab Assistant for Laboratory of Fundamental Chemistry for first year student of Biology

Lab Assistant for Laboratory of Fundamental Chemistry for first year student of Chemistry

Tutoring and cotutoring of thesis for graduation

- **Academic Year 1995/96:**

Cotutor of thesis for graduation in Chemistry

Tutor: Prof. G. Mestroni;

Student: Anna Anzilutti

Thesis title: "Synthesis of CO/stirene alternating copolymers catalyzed by palladium complexes with bidentate nitrogen-donor ligands"

- **Academic Year 1996/97:**

Cotutor of thesis for graduation in Chemistry

Tutor: Prof. G. Mestroni;

Student: Gianni Corso

Thesis title: "Synthesis of CO/olefin co- and terpolymers promoted by palladium complexes of general formula: $[\text{Pd}(\text{N-N})_2][\text{PF}_6]_2$ e $[\text{Pd}(\text{N-N})_2(\text{CH}_2\text{NO}_2)][\text{PF}_6]$ "

- **Academic Year 1997/98:**

Cotutor of thesis for graduation in Chemistry

Tutor: Prof. G. Mestroni;

Student: Martina Bianco

Thesis title: "Polymerization reactins of polar olefins promoted by organometallic cobalt complexes with nitrogen-donor bidentate ligands"

- **Academic Year 1998/99:**

Cotutor of thesis for graduation in Chemistry

Tutor: Prof. G. Mestroni;

Student: Andrea Mistaro

Thesis title: "CO/olefin co- and terpolymerization reactions promoted by palladium complexes with nitrogen-donor ligands: effect of the ancillary ligand"

- **Academic Year 1998/99:**

Cotutor of thesis for graduation in Chemistry

Tutor: Prof. G. Mestroni

Student: Federica Paronetto

Thesis title: "Polymerization of olefins promoted by late transition metal complexes with bidentate and tridentate nitrogen-donor ligands"

- **Academic Year 1999/2000:**

Cotutor of thesis for graduation in Chemistry

Tutor: Prof. G. Mestroni

Student: Angelica Marson

Thesis title: "CO/olefin copolymerization promoted by palladium complexes nitrogen-donor ligands: mechanistic investigation"

- **Academic Year 1999/2000:**
Cotutor of thesis for graduation in Chemistry
Tutor: Prof. G. Mestroni
Student: Manuela Trani
Thesis title: "Synthesis and reactivity of Ni and Co complexes containing bidentate nitrogen-donor ligands"

- **Academic Year 2000/2001:**
Tutor of thesis for graduation in Chemistry
Student: Alessandro Scarel
Thesis title: "Development of palladium catalysts with nitrogen-donor ligands for the synthesis of polyketones of high molecular weight"

- **Academic Year 2000/2001:**
Cotutor of thesis for graduation in Chemistry
Tutor: Prof. G. Mestroni
Student: Elisa Stabon
Thesis title: "Organometallic Co complexes with bidentate nitrogen-donor ligands as catalysts for polar olefins polymerisation"

- **Academic Year 2001/2002:**
Cotutor of thesis for graduation in Chemistry
Tutor: Prof. G. Mestroni
Student: Davide Franchi
Thesis title: "The control of stereochemistry in the synthesis of CO/styrene polyketones catalysed by palladium complexes with nitrogen-donor ligands"

- **Academic Year 2002/2003:**
Cotutor of thesis for graduation in Chemistry
Tutor: Prof. G. Mestroni
Student: Marco Barban
Thesis title: "Polymerization of polar olefins catalyzed by cobalt complexes with nitrogen-donor ligands"

- **Academic Year 2006/2007:**
Tutor of thesis for graduation in Chemistry
Student: Francesco Amoroso
Thesis title: "Electronic and steric effects in the synthesis of atactic polyketones catalyzed by palladium complexes with nitrogen-donor ligands"

- **Academic Year 2007/2008:**
Tutor of thesis for bachelor in Chemistry
Student: Daniele Comandella
Thesis title: "Dendritic complexes of Pd as catalysts for polymerization reactions"

- **Academic Year 2008/2009:**
Tutor of thesis for bachelor in Chemistry
Student: Davide Ret
Thesis title: "Carbene complexes of Pd as catalysts of dimerization reactions"

- **Academic Year 2009/2010:**
Tutor of thesis for bachelor in Chemistry
Student: Giacomo Armani
Thesis title: "Complexes of Pd with nitrogen-donor ligands as potential catalysts for copolymerization reactions"
- **Academic Year 2010/2011:**
Tutor of thesis for bachelor in Chemistry
Student: Massimo Rigo
Thesis title: "Copolymerization reactions of alkenes with acrylic esters catalyzed by palladium complexes"
- **Academic Year 2011/2012:**
Tutor of thesis for bachelor in Chemistry
Student: Federica Sfiligoi
Thesis title: "Synthesis and characterization of monosubstituted α -diimine ligands and of the relevant palladium complexes"
- **Academic Year 2011/2012:**
Tutor of thesis for master in Chemistry
Student: Vera Rosar
Thesis title: "Palladium complexes with naphthyl-substituted α -diimine ligands as catalysts for copolymerization"
- **Academic Year 2011/2012:**
Tutor of thesis for master in Chemistry
Student: Giovanni Canil
Thesis title: "Carbon nanotubes-supported palladium complexes as catalysts for polymerization reactions"
- **Academic Year 2012/2013:**
Tutor of thesis for bachelor in Chemistry
Student: Primavera Pelosin
Thesis title: "Dinuclear complexes of palladium with polydentate nitrogen-donor ligands"
- **Academic Year 2013/2014:**
Tutor of thesis for Bachelor in Chemistry
Student: Diana Dedeic
Thesis title: "Organometallic complexes of Pd(II) with pyridyl-immينو ligands"

Tutor of thesis for Master in Chemistry
Student: Andrea Tognon
Thesis title: "Coordination Chemistry to Pd(II) of pyridylbenzamidine ligands"

Tutor of thesis for Master in Chemistry
Student: Terence Nobile
Thesis title: "Dinuclear complexes as catalysts for ethylene/acrylic ester copolymerization reaction"

Tutor of thesis for Master in Chemistry

Student: Alessandro Piccotto

Thesis title: "Palladium complexes with porphyrins as potential catalysts for polymerization reactions"

- **Academic Year 2014/2015:**

Tutor of thesis for Bachelor in Chemistry

Student: Anna De Monte

Thesis title: "Palladium(II) complexes with ligands of 1,4-diazabutadiene skeleton"

Tutor of thesis for Bachelor in Chemistry

Student: Enrico Siagri

Thesis title: "Coordination chemistry to palladium of nonsymmetric nitrogen donor ligands"

Tutor of thesis for Master in Chemistry

Student: Francesca Milocco

Thesis title: "Coordination chemistry of formazanate molecules to palladium"

- **Academic Year 2015/2016:**

Tutor of thesis for Bachelor in Chemistry

Student: Luca Cusin

Thesis title: "Palladium complexes with α -diimines having a phenanthrenequinone skeleton"

- **Academic Year 2015/2016:**

Tutor of thesis for Master in Chemistry

Student: Diana Dedeic

Thesis title: "The control of stereochemistry in the synthesis of polyketones catalyzed by palladium complexes"

- **Academic Year 2016/2017:**

Tutor of thesis for Master in Chemistry

Student: Cristiano Glessi

Thesis title: " α -Diimines with a catechol backbone: synthesis and study of coordination chemistry to palladium(II)"

- **Academic Year 2016/2017:**

Tutor of thesis for Bachelor in Chemistry

Student: Simone Adorinni

Thesis title: "Benzoylpyridyl imines: synthesis and coordination chemistry to Pd(II)"

- **Academic Year 2017/2018:**

Tutor of thesis for Master in Chemistry

Student: Mattia Fiorindo

Thesis title: "Benzoylpyridyl imines: synthesis and coordination chemistry to Pd(II)"

- **Academic Year 2018/2019:**

Tutor of thesis for Bachelor in Chemistry

Student: Marco Mercadante

Thesis title: "Palladium complexes with nonsymmetric α -diimine ligands having a phenanthrene skeleton"

Tutoring and cotutoring of Ph.D. thesis

- **Academic Years 2014/2015:**

Tutor of a Ph.D. thesis of XXVIII Cycle

Ph.D. student: Vera Rosar

Thesis Title: "The importance of ligand structural diversity in palladium catalysed polymerization"

- **Academic Years 2010/2012:**

Tutor of a Ph.D. thesis

Ph.D. student: Angelo Meduri

Thesis Title: "Development of palladium catalysts with nitrogen-donor ligands for controlled polymerization reactions"

The thesis has been awarded with the National prize for the best PhD Thesis of year 2013 from the Inorganic Chemistry Division of the Italian Chemical Society

- **Academic Years 2002/2003, 2003/2004, 2004/2005:**

Tutor of a Ph.D. thesis

Ph.D. student: Alessandro Scarel

Thesis Title: "Stereocontrolled polymerisation reactions catalysed by palladium complexes with nitrogen-donor ligands"

- **Academic Year 2008/2009:**

Cotutor of a Ph.D. thesis

Ph.D. Student: Lidia Fanfoni

Thesis title: "Development of chiral nitrogen ligands for applications in homogeneous catalysis"

- **Academic Year 2002/2003:**

Member of jury for the Ph D thesis discussion at University of Tarragona (Spain), Ph.D. Student Amaia Bastero, Tutor: Prof. Dr. Carmen Claver

- **Academic Year 2005/2006:**

Member of jury for the Ph D thesis discussion at University of Amsterdam (The Netherlands), Ph.D. Student Angelica Marson, Tutor: Prof. Dr. Piet van Leeuwen; at University of Naples (Italy), Ph.D. Student Angela D'Amora, Tutor: Prof. Aldo Vitagliano.

- **Academic Year 2004/2005:**

Cotutor of the "Diploma arbeit" of Alzander Schätz, University of Regensburg (Germany), Tutor: Prof. Dr. Oliver Reiser

- **Academic Year 2005/2006:**

Member of jury for the Ph D thesis discussion at University of Louis Pasteur (Strasbourg, France), Ph.D. Student Magno Agostinho, Tutor: Prof. Dr. Pierre Braunstein

- **Academic Year 2009/2010:**

Member of jury for Ph D thesis discussion at University of Sassari, Ph D Student Agnieska Mroczek, Tutor: Prof. Serafino Gladiali; Ph D student Satyajit Karandikar, Tutor: Prof. Serafino Gladiali.

- **Academic Year 2011/2012:**

Member of jury for Ph D thesis discussion at University College of Dublin, Ph D Student Vsevolod Klebnikov, Tutor: Prof. Martin Albrecht; at University of Milano, Florence.

- **Academic Year 2013/2014:**

Member of jury for Ph D thesis discussion at ENSIACET of Toulouse, Ph D Student Liping Zhang, Tutor: Dr. Jerome Durand.

Member of jury for Ph D thesis discussion at University of Amsterdam, Ph D Student Ruben Drost, Tutor: Prof. Cornelis Elsevier.

- **Academic Year 2014/2015:**

Member of jury for Ph D thesis discussion at University of Udine, 3 thesis.

Member of jury for Ph D thesis discussion at University of Donostia (Spain), Tutor: Prof. Zoraida Freixa.

Currently tutor of two students of Bachelor thesis in Chemistry Erik Fochesato, Federica Secco, of one student of Master thesis in Chemistry Matteo Degrassi, and of one PhD student Anna Dall'Anese.