

Update on December 2024

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

Positions occupied:

| | | |
|-----------------------|---|---------------------------|
| 03/2024 – present | Full Professor of Inorganic Chemistry | Permanent Position |
| Università di Trieste | Dipartimento di Scienze Chimiche e Farmaceutiche | |
| 10/2014 – 02/2024 | 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 |

Studies, Research and Teaching Activity out of Italy:

| | | |
|--------------------------------------|---|--|
| 04/2023, 04/2024 | Visiting Professorship at University of Bern (Switzerland) | 1 week Teaching “Inorganic Chemistry IV: Catalysis for Polymerization” Master Students in Chemistry |
| 04/2019, 03/2017, 4/2014, 03/2012 | ERASMUS exchange teaching staff mobility at University Rovira i Virgili in Tarragona (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 (France) | 1 month Teaching “Catalysis for Polymerization” PhD Students |
| 10/2010 | Visiting Professorship at Ecole Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques – Institut National Polytechnique de Toulouse (France) | 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)

Awards

11/2024 Italian Knowledge Leaders award given by the Italian Knowledge Leaders Association

Principal Investigator and scientist in charge of the following research grants

Local Research Grants

2024-2025 **Principal Investigator of the Project Proof of Concept of Trieste University**
Catalysts and process for olefins and polar vinyl monomers copolymerization and olefins homopolymerization

2023 **Participant to Research Fund of Trieste University – FRA2023**

2022 **Participant to Research Fund of Trieste University – FRA2022**

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:

2022-2024 **Principal Investigator of the Research Unit of the Italian Project PRIN 2022PC7AKH**
Project title: Iron Based Coordination Copolymerization: an Adventure in Deserted Land (IRON-CAT)
Central Coordinator: Prof. Vincenzo Busico, Università degli Studi di Napoli Federico II

2016-2020 **Participant to one Research Unit of the Italian Project PRIN 20154X9ATP_005**
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)
- 2008-2010 **Principal Investigator of the Research Unit of the Italian Project PRIN 2007HMTJWP_002**
Catalysis for chemo- and stereocontrolled polymerization: powerful tool for the synthesis of new polymeric materials
Central Coordinator: Prof. Serafino Gladiali Università di Sassari
- 2006-2007 **Principal Investigator of the Research Unit of the Italian Project PRIN 2005035123**
Regio- and Stereocontrolled Polymerization and Post-polymerization Reactions Catalyzed by Late Transition Metal Complexes
Central Coordinator: Prof. Serafino Gladiali Università di Sassari
- 2004-2005 **Principal Investigator of the Research Unit of the Italian Project PRIN 2003033857**
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 Lichteststein
- 2013-2017 **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
- 2002-2006 **Central Coordinator of a European Research Training Network**
Project title: Atom-economic synthesis using palladium, the chamaleon catalyst”
“PALLADIUM”
5th Framework Program - Contract identifier: HPRN-CT-2002-00196
- 2000-2006 **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

- 2021-present **Scientist-in-charge of collaboration with Basell Poliolefine Italia**
Project title: Functionalized polyolefins: promising macromolecules for chemical recycling of thermoplastic materials

2008-2010 **Scientist-in-charge of contract with Marlin enterprise**
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:

| | |
|---------------------------|--|
| Prof. Dr. Vincenzo Busico | Università degli Studi di Napoli Federico II |
| Dott.ssa Carla Carfagna | University of Bologna |
| Prof. Claudio Pellicchia | University of Salerno |
| Prof. Fabio Ragaini | University of Milano |
| Prof. Fulvia Felluga | University of Trieste |
| Prof. Paolo Fornasiero | University of Trieste |
| Prof. Tiziano Montini | University of Trieste |
| Prof. Paolo Tecilla | 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. Olafs Daugulis | Università di Houston (Texas – USA) |
| Prof. Dr. Cyril Godard | University Roviria i Virgili of Tarragona (Spain) |
| Dr. Jerome Durand | ENSIACET Toulouse (France) |
| 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

2008-present Member of Advisory Board of Dalton Transaction

2007-2009 Member of Advisory Board of European Journal of Inorganic Chemistry

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
- Dalton Trans. themed issue on “Metal-catalysed polymerisation” issue 41, 2009
- Dalton Trans. themed issue on “Small Molecules activation” issue 45, 2016

Responsible Activities at Local, National and International level

Responsible Activities at Local Level

For UniTS

| | |
|--------------|--|
| 2022-2025 | Rector Delegate for International Relationships and Mobility |
| 2017-2019 | Coordinator of the PhD School Doctorate in Chemistry (joint PhD School between University of Trieste and Ca' Foscari University Venice) |
| 2006-present | Representative of University of Trieste in the National Interuniversity Consortium for Chemical Reactivity and Catalysis (CIRCC). |

For the Department

| | |
|--------------|---|
| 2021-present | ERASMUS coordinator for chemistry for the Department of Chemical Pharmaceutical Sciences |
| 2008-2018 | ERASMUS coordinator for chemistry for the Department of Chemical Pharmaceutical Sciences |
| 2016-2019 | Member of the Board (Collegio Docenti) of the PhD School in Chemistry |
| 2013-2018 | Member of the Advisory Board (Giunta) of the Department |
| 2002-2008 | Member of the Advisory Board (Giunta) of the Department |
| 2008-present | Responsible for the 500 MHz NMR Varian spectrometer installed at the Department of Chemical Sciences on March 2008. |

Responsible Activities at National Level

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|--------------|---|
| 2021-present | Member of the Board of the Inorganic Chemistry Division of the Italian Chemical Society |
| 2010 | Member of the organizing committee of XXXVIII National Conference of the Inorganic Chemistry Division (Trieste 2010) |
| 2007 | Member of the organizing committee of VIII National Conference on Supramolecular Chemistry (Trieste 2007) |

Responsible Activities at International Level

| | |
|--------------|--|
| 2022-2024 | Co-chair of the XXIII International Symposium on Homogeneous Catalysis, ISHC-XXIII (Trieste, July 2024) |
| 2009-present | Member of Advisory Board of International Symposium on Homogeneous Catalysis |
| 2022 | Session Co-Chair for the Topic “T12 – Homogeneous Catalysis” at the 44 th International Conference on Coordination Chemistry – ICC2020 (Rimini, July 2022) |
| 2018 | Member of the organizing committee of 28^a International Conference on Organometallic Chemistry ICOMC (Florence, July 2018) |
| 2008 | Member of the organizing committee of International Symposium on Homogeneous Catalysis, ISHC-XVI (Florence, July 2008) |

Refereeing and evaluation activity***Refereeing activity for the following scientific journals***

ACS Catalysis, ACS Polymer Au, Applied Organometallic Chemistry, Catalysis Science & Technology, ChemCatChem, Dalton Transactions, European Journal of Inorganic Chemistry, European Polymer Journal, Journal of the American Chemical Society, Journal of Organometallic Chemistry, Inorganic Chemistry, Inorganic Chimica Acta, Macromolecules, Organometallics, Polymer, Polymer Chemistry.

Refereeing activity for the following funding agencies

FIRB Projects and VQR for the Italian Ministry of University (MUR), ANR (France), ICREA (Spain), Petroleum Research Funds for American Chemical Society (USA).

Invited Lectures

35 Invited lectures at National and Foreign Universities; 4 Invited Lectures at Companies.

23 Invited and Keynote Lectures at National and International Conferences.

101 Poster and Oral Presentations (13 OP by B. Milani and 10 by young collaborators) at National and International conferences.

Teaching Activities

Since 1998, regular teaching at compulsory courses for students of Bachelor and Master degree in Chemistry and for bachelor degree in Geology.

Cotutoring 12 thesis for graduation in Chemistry. Tutoring 16 thesis of Master in Chemistry (3 awarded with the Annual, National Prize for Laurea in Catalysis by Gruppo Interdivisionale di Catalisi), 16 for Bachelor in Chemistry.

Teaching Activities at students of 1st and 2nd level

List of the given courses:

Accademic Years 2019/2020, 2020/2021, 2021/2022, 2022/23:

Chimica Inorganica con Laboratorio, modulo di Laboratorio 3° anno LT in Chimica (4 CFU)

Applicazioni Industriali di Catalisi Omogenea e Fotocatalisi, LM in Chimica (4 CFU)

Chimica Generale con Laboratorio ed Elementi di Organica, modulo di Chimica Generale, 1° anno LT in Geologia (6.5 CFU)

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

Chimica Inorganica con Laboratorio, modulo di Laboratorio 3° anno LT in Chimica (4 CFU)

Catalisi, modulo di Catalisi Omogenea, LM in Chimica (3 CFU)

Chimica Generale con Laboratorio ed Elementi di Organica, modulo di Chimica Generale, 1° anno LT in Geologia (6.5 CFU)

- Accademic Year 2014/2015:

Chimica Inorganica con Laboratorio, modulo di Laboratorio 3° anno LT in Chimica (4 CFU)

Catalisi, modulo di Catalisi Omogenea, LM in Chimica (3 CFU)

TFA: Chimica Generale agli Insegnanti di Scuola Media Superiore

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

Chimica Inorganica con Laboratorio, modulo di Laboratorio 3° anno LT in Chimica (4 CFU)

Catalisi, modulo di Catalisi Omogenea, LM in Chimica (3 CFU)

- Accademic Year 2010/2011:

Chimica Inorganica con Laboratorio, modulo di Laboratorio 3° anno LT in Chimica (4 CFU)

Catalisi, modulo di Catalisi Omogenea, LM in Chimica (3 CFU)

Chimica Bioinorganica, LM in Scienze Naturali (1 CFU)

- Accademic Year 2009/2010:

Chimica Inorganica con Laboratorio, modulo di Laboratorio 3° anno LT in Chimica (4 CFU)

Catalisi, modulo di Catalisi Omogenea, LM in Chimica (3 CFU)

- **Accademic Year 2008/2009:**
Chimica Generale con Laboratorio, 1° anno LT in Scienze e Tecnologie per l'Ambiente e la Natura (STAN), corso mutuato per gli studenti del 1° anno LT in Geologia
Catalisi di Polimerizzazione, LM in Chimica
Chimica Bioinorganica, LM in Scienze Naturali
Assistente del Laboratorio di Chimica Generale, 1° anno LT in Chimica
- **Accademic Years 2005/2006, 2006/2007, 2007/2008:**
Chimica Generale con Laboratorio, 1° anno LT in Scienze Naturali
Catalisi di Polimerizzazione, LM in Chimica
Assistente del Laboratorio di Chimica Generale, 1° anno LT in Chimica
- **Accademic Year 2004/2005:**
Assistente del Laboratorio di Chimica Generale, 1° anno LT in Chimica
- **Accademic Year 2003/2004:**
Fondamenti di Chimica, 1° anno LT in Scienze Biomediche di Base
Laboratorio di Chimica Generale, 1° anno LT in Chimica
- **Accademic Years 2001/2002, 2002/2003:**
Laboratorio di Chimica Generale, 1° anno LT in Chimica
Assistente del Laboratorio di Chimica Generale, 1° anno LT in Biologia
- **Accademic Years 1998/99, 1999/2000, 2000/2001:**
Assistente del Laboratorio di Chimica Generale, 1° anno LT in Chimica
Assistente del Laboratorio di Chimica Generale, 1° anno LT in Biologia

Tutoring and Cotutoring of Ph.D. Thesis

- **Cycle 22:** Cotutor Ph.D. Student: Lidia Fanfoni
Development of chiral nitrogen ligands for applications in homogeneous catalysis
- **Cycle 18:** Tutor Ph.D. student Alessandro Scarel
Stereocontrolled polymerisation reactions catalysed by palladium complexes with nitrogen-donor ligands
- **Cycle 25:** Tutor Ph.D. student Angelo Meduri
Development of palladium catalysts with nitrogen-donor ligands for controlled polymerization reactions
Awarded with the National prize for the best PhD Thesis of year 2013 from the Inorganic Chemistry Division of the Italian Chemical Society
- **Cycle 28:** Tutor Ph.D. student Vera Rosar
The importance of ligand structural diversity in palladium catalysed polymerization
- **Cycle 32:** Tutor Ph.D. student Anna Dall'Anese
Pd-catalyzed copolymerizations: from ligand architecture to macromolecule microstructure
Awarded with the National prize for the best PhD Thesis of year 2019 from the Inorganic Chemistry Division of the Italian Chemical Society
- **Cycle 35:** Tutor Ph.D. student Chiara Alberoni
The importance of secondary interactions in Pd(II) catalysed synthesis of functionalized polyolefins.

- **Cycle 37:** Tutor Ph.D. student Karim Abdel Hady
PON Project, cofinanced by LyondellBasell
Currently under working

Member of jury for the Ph D thesis discussion both in National and Foreign Universities (more than 20).

Mentoring Activity

Supervisor of 4 Post-doc fellows:

- **Dr. Jerome Durand** (2002 – 2005, 3 years): Post-doc fellow inside the RTN PALLADIUM project.
- **Dr. Rosa Axet** (2006, 6 months): Post-doc fellow inside the RTN PALLADIUM project.
- **Dr. Won Bu** (2007, 1 year): Post-doc fellow inside the project “ Regio- and stereocontrolled polymerization reactions catalyzed by late transition metals”.
- **Dr. Angela D’Amora** (2008, 1 year): Post-doc fellow inside the project “ Regio- and stereocontrolled polymerization reactions catalyzed by late transition metals”.

Prof. Milani was supervisor of **several PhD students from foreign universities**, belonging to research groups inside the COST Actions and the RTN PALLADIUM. These students were hosted in her research group as **visiting students for around 3 months**. Those students, who are co-authors of publications with Prof. Milani, are listed below:

| | |
|-------------------------|---|
| Amaia Bastero | Università Rovira i Virgili di Tarragona (Spagna) |
| Ariadna Campos-Carrasco | Università Rovira i Virgili di Tarragona (Spagna) |
| Sheba Bergman | Università di Tel Aviv (Israele) |
| Folkert de Vries | Università di Groningen (Paesi Bassi) |
| Vsevolod Khlebnikov | University College Dublin (Irlanda) |
| Gearoid M. Ó Máille | Università di Berna (Svizzera) |
| Alexander Schätz | Università di Regensburg (Germania). |

Prof. Milani was supervisor of **some graduated master students**. Those students, who are co-authors of publications with Prof. Milani, are listed below:

| | |
|--------------------|--------|
| Silvia Dalla Marta | UniTS |
| Nicol Guidolin | UniTS. |

Participation to Selection Committee

Member of committee for selection of:

Assegnista di ricerca: University of Milan 2019;
University of Trieste 2020.

RTD-B: University of Perugia 2020;
University of Udine 2021.

PA: University of Trieste 2019.

PUBLICATIONS:

Prof. Milani is (co)-author of 83 publications, 2 book chapters (1 as corresponding author), 8 patents and 3 publications on non indexed journals.

ORCID: 0000-0002-4466-7566

H index = 29/29 (Scopus/WoS September 2023)

Number of total citations: 2564/2477

Number of publications with Prof. Milani as first author: 4.

Number of publications with Prof. Milani as *corresponding author* (labeled with *): 50 (in 13 of these she also is first author).

The publications are listed below, with indication for each of them of:

I.F. = impact factor of the Journal at the year of publication;

N.C. = number of citations **Scopus/Web of Science**.

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, 255-256.
I.F. = 1.578; N.C. = 55/52

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, 15-17.
I.F. = 1.578; N.C. = 32/31

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, 85-91.
I.F. = 1.578; N.C. = 20/20

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, 2117-2118.
I.F. = 2.908; N.C. = 47/45

- 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, 1903-1911.
I.F. = 2.908; N.C. = [111/98](#)
- 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 [(DMSO)₂H][*trans*-RuCl₄(DMSO)(CO)] and *mer*, *cis*-RuCl₃(DMSO)₂(CO).
Inorg. Chem., 1995, 34, 4716-4721.
I.F. = 3.389; N.C. = [49/43](#)
- 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 Ru(CO)_x(DMSO)_{4-x}Cl₂ complexes (*x*=1-3).
Inorg. Chem., 1995, 34, 4722-4734.
I.F. = 3.389; N.C. = [76/74](#)
- 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, 1021-1029.
I.F. = 2.908; N.C. = [60/54](#)
- 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, 3139-3144.
I.F. = 2.908; N.C. = [52/53](#)
- 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, 89-91.
I.F. = 2.042; N.C. = [21/13](#)
- 11) **B. Milani***, A. Anzilutti, L. Vicentini, A. Sessanta o Santi, E. Zangrando, S. Geremia, G. Mestroni
Bis-chelated palladium(II) complexes with nitrogen-donor chelating ligands are efficient catalyst precursors for the CO/styrene copolymerization reaction.
Organometallics, 1997, 16, 5064-5075.
I.F. = 3.375; N.C. = [206/206](#)

- 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, 301-326.
I.F. = 1.840; N.C. = 28/26
- 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, 2085-2093.
I.F. = 2.475; N.C. = 19/18
- 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, 3061-3069.
I.F. = 3.215; N.C. = 109/104
- 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. = 84/70
- 16) **B. Milani***, G. Corso, G. Mestroni, C. Carfagna, M. Formica, R. Seraglia
Highly efficient catalytic system for the CO/styrene copolymerization: toward the stabilization of the active species
Organometallics, 2000, 19, 3435-3441.
I.F. = 3.169; N.C. = 66/68
- 17) A. Sessanta o Santi, **B. Milani***, E. Zangrando, 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, 2351-2354.
I.F. = 2.222; N.C. = 6/6
- 18) **B. Milani***, F. Paronetto, E. Zangrando
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, 3055-3057.
I.F. = 2.502; N.C. = 24/23

- 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, 609-612.
I.F. = 2.475; N.C. = 20/18
- 20) **B. Milani**, G. Mestroni, E. Zangrando
Structural aspects of palladium systems used as catalyst precursors in CO/olefins co- and terpolymerisation reactions.
Croat. Chim. Acta, 2001, 74, 851-865.
I.F. = 0.571; N.C. = 12/10
- 21) **B. Milani***, A. Marson, E. Zangrando, G. Mestroni, J.M. Ernsting, C. J. Elsevier
New monocationic methylpalladium(II) compounds with several bidentate nitrogen-donor ligands: synthesis, characterisation and reactivity with CO
Inorg. Chim. Acta, 2002, 327, 188-201.
Invited paper dedicated to Prof. Kees Vrieze
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Industrial Patents

Prof. Milani is **co-inventor of 8 industrial patents**. The first 7 belongs to ENICHEM, patent number 8 in the list belongs to UniTS.

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

Process for preparing polymers based on carbon monoxide and olefins

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Procedimento per la preparazione di copolimeri a base di ossido di carbonio ed almeno un composto avente un'insaturazione alchenilica

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Procedimento migliorato per la preparazione di copolimeri a base di ossido di carbonio ed almeno un composto contenente un'insaturazione alchenilica

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Procedimento migliorato per la preparazione di copolimeri a base di ossido di carbonio ed almeno un composto contenente un'insaturazione alchenilica

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