

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.
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- 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.
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- 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.
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Crystal structure of a palladium metallacyclic complex: a key-intermediate in the carbonylation of nitrobenzene to isocyanates and carbamates.
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- 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.
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- 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.
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Counterion effect on CO/styrene copolymerization catalyzed by cationic palladium(II) organometallic complexes: an interionic structural and dynamic investigation based on NMR spectroscopy.
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- 15) E. Iengo, **B. Milani**, E. Zangrando, S. Geremia, E. Alessio
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Highly efficient catalytic system for the CO/styrene copolymerization: towards the stabilization of the active species

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Synthesis and crystal structure of a palladium metallacyclic complex: a key intermediate in the carbonylation of azobenzene to N- phenyl urethane.

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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.

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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.

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Influence of pyridine-imidazoline ligands on the reactivity of Palladium-methyl complexes with carbon monoxide.
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- 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.
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I.F. = 4.099, N.C. = 1

La back cover della rivista è dedicata a questa pubblicazione.

PUBLICATIONS ON NON INDEXED JOURNALS

1) E. Alessio, **B. Milani**, M. Bolle, G. Mestroni, P. Faleschini, F. Todone, M. Calligaris, S. Geremia
New carbonyl derivatives of chloride-dimethyl sulfoxide-ruthenium(III) and ruthenium(II)
complexes.

Synthesis and Methodologies in Inorganic Chemistry. New Compounds and Materials. Edited by S.
Daolio, E. Tondello, P.A. Vigato, 1995, 5, 283.

2) **B. Milani**, L. Vicentini, A. Sommazzi, F. Garbassi, E. Chiarparin, E. Zangrando, G. Mestroni
Bischelated palladium(II) complexes with a diphosphine and a chelating dinitrogen ligand: very
efficient catalyst precursors in the CO-olefins co- and terpolymerisation reactions.

Synthesis and methodologies in inorganic chemistry. New compounds and materials. Edited by: S.
Daolio, E. Tondello, P.A. Vigato, 1996, 6, 353.

3) N. Furlan, G. Fontolan, L. Sartore, **B. Milani**, R. Mosca, S. Meriani

Caratterizzazione chimico-fisico dei sedimenti del porto di Trieste e problematiche derivanti
dall'eventuale dragaggio e smaltimento a mare

Bollettino della Società Adriatica di Scienze LXXIX, 1999, 3.

INDUSTRIAL PATENTS

- 1) A. Sommazzi, F. Garbassi, G. Mestroni, **B. Milani**
Process for preparing polymers based on carbon monoxide and olefins
Italian Patent, N. MI91/A 002929 (1991)
European Patent, N. 93200331.2 (1993)
United States Patent, N. 5,310,871 (1994)

- 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)
European Patent, N. 96101967.6-2102 (1996)

- 3) A. Sommazzi, F. Garbassi, G. Mestroni, **B. Milani**, L. Vicentini,
Procedimento migliorato per la preparazione di copolimeri a base di ossido di carbonio ed almeno un composto contenente un'insaturazione alchenilica
Italian Patent, N. MI 95/A 002368 (1995).

- 4) A. Sommazzi, F. Garbassi, G. Mestroni, **B. Milani**, L. Vicentini
Procedimento migliorato per la preparazione di copolimeri a base di ossido di carbonio ed almeno un composto contenente un'insaturazione alchenilica
Italian Patent, N. MI96/A 00741 (1996).
European Patent, N. 96117237.6-2102 (1996).

- 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 contenente un'insaturazione alchenilica
Italian Patent, N. MI96/A 00743 (1996).
European Patent, N. 97104955.6-2102 (1997).

- 6) A. Sommazzi, **B. Milani**, A. Proto, G. Corso, G. Mestroni, F. Masi,
Nuovi complessi metallici utilizzabili nella catalisi per la (co)polimerizzazione delle alfa-olefine
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)

Geleen (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

39) **B. Milani**

Ligand desymmetrization: a powerful strategy in catalysis for polymerization
Università Rovira i Virgili (invited by Dr. Cyril Godard)
Tarragona (Spain) April 2019

INVITED LECTURES at CONFERENCES

1) **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 (Germania), 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