CURRICULUM VITAE OF MAURIZIO PERUZZINI

Last namePeruzziniFirst nameMaurizioNationalityItalian

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Education: Doctor in Chemistry 110/110 magna cum laude, University of Florence, June 1979.

Research Advisors: Professor Luigi Sacconi and Professor Piero Stoppioni.

Experience and Academic Carrier:

July 1979 - November 1981: University of Florence, Department of Chemistry. Assistant. Research interests: synthetic coordination and organometallic chemistry.

November 1981 - March 1986: University of Florence, Department of Chemistry. Research Assistant. Research interests: synthetic coordination and organometallic chemistry. Organophosphorus and organoarsenic chemistry. Transition metal clusters incorporating naked main group atoms and units as ligands.

April 1986 - present: Istituto di Chimica dei Composti Organometallici, ICCOM CNR, formerly Istituto per lo Studio della Stereochimica ed Energetica dei Composti di Coordinazione del Consiglio Nazionale delle Ricerche, ISSECC CNR.

- Researcher (1986 1996),
- Senior Researcher (1996 2001; first classified in a national competition for the position of "Primo Ricercatore" (Senior Researcher) of CNR)
- Research Director (2001 2020; first classified in a national competition for the position of "Dirigente di Ricerca" (Research Director) of CNR)
- Associate Researcher (2020 present)

February 2011 – October 2013: *Deputy Director*, Istituto di Chimica dei Composti Organometallici, (ICCOM CNR)

October 2013 – January 2017: *Director*, Istituto di Chimica dei Composti Organometallici, (ICCOM CNR, first classified in a national competition for the position. Headquarter: Sesto Fiorentino (FI); Research Stations: UOS in Pisa and Bari; URT in Trieste and Camerino; permanent staff (2016) about 75 people (54 researchers), temporary staff (average) about 40 people (Postdocs Associates, Grant holders, PhD and Master students, Visiting Scientists) and more than 40 research associates from eight Universities)

February 2017 – **February 2020**: *Director*, Dipartimento Scienze Chimiche e Tecnologie dei Materiali, DSCTM CNR, first classified in a national competition for the position.

March 2020 - April 2020: Acting Director, Dipartimento Scienze Chimiche e Tecnologie dei Materiali, DSCTM CNR, appointed by the President of CNR

Primary interests in chemistry:

- Activation and functionalization of elemental Phosphorus.
- 2D-Materials derived from Black Phosphorus (Phosphorene)
- Activation of small inorganic and organic molecules.
- Transition-metal hydrides.
- Molecular Hydrogen complexes.
- Materials for H-storage.
- Carbon dioxide capture and valorisation
- Metal promoted functionalization of terminal alkynes.
- Selective transformations of vinylidenes and allenylidenes.
- Water soluble organometallic complexes.
- C-H bond activation in hydrocarbons and oxoderivatives.
- Homogeneous catalysis.
- Hydrodesulfurisation reaction of thiophenic molecules.
- Characterization of organometallic compounds through multinuclear 1D- and 2D-NMR spectroscopy.
- High-pressure NMR Spectroscopy (HPNMR).

Publications:

Author of 429 scientific publications (136 American Chemical Society / 61 Royal Society of Chemistry), 5 patents and 579 presentations at International (380) and National (199) Chemical Meetings

Web of Science

ISI Ranking:

h-index 57 (WOS); results found 417; sum of times cited 12676; average citation per article 30.4 (as at July, 26th 2020). **h-index 57** (SCOPUS); results found 389; sum of times cited 12570; average citation per article 32.31 (as at July, 26th 2020).

ResearcherID: http://www.researcherid.com/rid/M-1705-2014

ORCID:

http://orcid.org/0000-0002-2708-3964

Awards:

Prize "Raffaele Nasini" 1993, gold medal awarded by the Division of Inorganic Chemistry of the Società Chimica Italiana

SCF French-Italian Prize, 2011, Lectureship Prize awarded by the Société Chimique de France at Université Claude Bernard, Lyon-Villeurbanne, June 8th 2012 (advertised in Angew. Chem. Int. *Ed.* **2011**, *50*, 11838 – 11839)

"Fiorino di Argento 2016", prize "Ambassador of Florence", awarded by "Firenze Convention Bureau", Firenze, Palazzo Vecchio, February 2nd 2017.

"Stanislao Cannizzaro" Gold Medal 2020, gold medal awarded by the Società Chimica Italiana

Honours:

Foreign Corresponding Member (Membro Correspondente Estrangeiro) of the Academia das Cências de Lisboa, Lisbon, Portugal (since 2017)

Fellow of the John van Geuns Foundation (1996 and 2000) at the van't Hoff Institute of Chemistry, University of Amsterdam, Amsterdam, The Netherlands

Fellow of the Hans Vielberth Stiftung (2007, 2012 and 2019) at the Naturwissenschaftliche Fakultät IV, Chemie und Pharmazie, Universität Regensburg, Regensburg, Germany

Editor:

Editor of the books:

"Recent Advances in Hydrides Chemistry", published by Elsevier SA (Amsterdam, The Netherlands), 578 pages, January **2002**; ISBN 10: 0-444-50733-7; ISBN 13: 978-0-444-50733-4; (together with Rinaldo Poli, Université de Bourgougne, Dijon, France)

"Phosphorus Compounds: Advanced Tools in Catalysis and Material Sciences", Series Catalysis by Metal Complexes, Vol. 37; published by Springer Verlag (Heidelberg, Germany), 469 pages, July **2011**; ISBN 978-90-481-3816-6; (together with Luca Gonsalvi, ICCOM CNR, Sesto Fiorentino, Italy)

Guest Editor:

Coordination Chemistry Reviews (Elsevier SA), Volumes 185/186 (May, **1999**; 838 pages) and 190/192 (October, **1999**; 1285 pages), (together with Ivano Bertini, University of Florence, Italy).

European Journal of Inorganic Chemistry (Wiley VCH), 10th Year-Anniversary issue, July **2007**; issue 18/2007, pp 2513 – 2985, (together with Karl Kirchner, Technical University of Vienna, Vienna, Austria)

Inorganica Chimica Acta (Elsevier SA), "*Advances in transition metal catalysis*", Volume 431 (May 24th, **2015**; 302 pages), together with Maria Caporali (ICCOM – CNR).

Inorganica Chimica Acta (Elsevier SA), "Special Volume: Protagonists in Chemistry Dedicated to Prof. Carlo Mealli", Volume 470 (January 30th, **2018**; 444 pages), together with Andrea Ienco (ICCOM – CNR).

Molecules (MDPI; ISSN 1420-3049), Topical Collection "Early-Career Researchers in Chemistry", to be published in 2021. Collection Coeditors Antonella Curulli (ISMN – CNR, Italy), Eugenio Aprea (University of Trento, Italy), Francesca Cardona (University of Florence, Italy), Ioanna Chinou (University of Athens, Greece), James Gauld (University of Windsor, Canada), Lakshmi Kotra (University of Toronto, Canada);

Member of Editorial Boards:

- Member of the *Editorial Board* of the *European Journal of Inorganic Chemistry* (Wiley-VCH, Weinheim, Germany), 2007 2012
- Member of the *Editorial Advisory Board* of *Organometallics* (American Chemical Society), 2006 2008
- Member of the *International Advisory Board* of the *European Journal of Inorganic Chemistry* (Wiley-VCH, Weinheim, Germany), 2002 2006
- Member of the Editorial Board of Inorganica Chimica Acta (Elsevier SA, Amsterdam, NL), 2013 –
- Member of the Editorial Board of ChemistrySelect (Wiley-VCH, Weinheim, Germany), 2015 –

Member of Editorial Boards (online web journals)

- Member of the Editorial Board of Hydrogen (Open Access Journal MDPI; since 2020)
- Member of the Editorial Board of Inorganics (Open Access Journal MDPI); since 2019)
- Member of the *Editorial Board* of *Molecules* (Open Access Journal MDPI; Organometallic Chemistry Section; since 2019)
- Member of the *Editorial Board* of *The Open Conference Proceedings Journal* (Bentham Science Publisher; since 2014)
- Member of the Editorial Board of Physical and Chemical News (Best Editions, Morocco; since 2004)
- Member of the Editorial Advisory Board of Current Catalysis (Bentham Science Publisher; 2012 2018)
- Member of the *Editorial Advisory Board* of *Current Inorganic Chemistry* (Bentham Science Publisher; 2009 2018)
- Member of the *Editorial Board* of the *Research Letters in Inorganic Chemistry* (Hindawi Publishing Corporation; 2007 2010); later *International Journal of Inorganic Chemistry* (Hindawi Publishing Corporation; 2010 2017)
- Member of the Editorial Board of Green and Sustainable Chemistry (Scientific Research Publishing Inc; 2011

 2012)
- Regional Editor of The Open Catalysis Journal (Bentham Science Publisher; 2010 2015)
- Member of the Editorial Board of The Open Catalysis Journal (Bentham Science Publisher; 2008 2009)
- Member of the Editorial Board of The Open Inorganic Chemistry Journal (Bentham Science Publisher; 2007
 2009)

INTERNATIONAL ACTIVITY

- Recipient (PI) of an ERC ADVANCED GRANT for the project "Phosphorene functionalization: a new platform for advanced multifunctional materials" (PHOSFUN) (2015 2019) (Horizon-2020). Panel PE5 Synthetic Chemistry and Materials; Proposal ID 670173. Host institution CNR ICCOM. Participants: ICCOM-CNR (Florence, Italy), NANO-CNR (Pisa, Italy), ISMN-CNR (Bologna, Italy). Total Budget ca. 2.000.000 €.
- Recipient (PI) of an **ERC PROOF OF CONCEPT GRANT** for the project "Exfoliated black phosphorus for biomedical applications" (**PHOSMED**) (2020 2022) (**Horizon-2020**). Proposal ID 963933. Host institution CNR ICCOM. Participants: ICCOM-CNR (Florence, Italy), IPCB-CNR (Naples, Italy). Total Budget. 150.000 €.
- Coordinator of the MARIE CURIE RESEARCH TRAINING NETWORK, project MRTN-CT-2003-503864, "Transition Metal Chemistry and Catalysis in Aqueous Media" (AQUACHEM) (2003 − 2007) (6th RFP). Participants: ICCOM-CNR (Florence, Italy), LCC-CNRS (Toulouse, France), University of Debrecen (Debrecen, Hungary), The Hebrew University of Jerusalem (Jerusalem, Israel), Universitat Autonoma de Barcelona (Barcelona, Spain), University of York (York, UK), University of Erlangen-Nürnberg (Erlangen, Germany), Istituto Superior Tecnico (Lisbon, Portugal), University of Almería (Almería, Spain), INEOS-RAS (Moscow, Russia). Total budget ca. 1.900.000 €.
- Coordinator of the MARIE CURIE INTERNATIONAL INCOMING FELLOWSHIPS (IIF) FP7-PEOPLE-IIF-2008-236423 "New modular self-assembled homogeneous catalysts for asymmetric synthesis in water" (MODUCAT) (2009 − 2012) (7th RFP). Participants: ICCOM CNR (Florence, Italy), INEOS-RAS, Russia. Total budget 163.074 €.
- Coordinator of the EC Project (INCO-COPERNICUS ERBIC15CT960746) "New Chlorine Free Technology of Organophosphorus Compounds Based on Catalytic Reactions of Elemental Phosphorus" (1997 2000) (4th RFP). Participants: ISSECC-CNR (Florence, Italy), LCC-CNRS (Toulouse, France), ITPA (Vilnius, Lithuania), IOCE-NAS (Almaty, Kazakhstan). Total budget ca. 400.000 €.
- Coordinator of the INTAS project 00-00018 "Towards an ecoefficient functionalization of white phosphorus" (2001 2004). Participants: ISSECC-CNR (Florence, Italy), University of Kaiserslautern (Germany), University of Almeria (Spain), IOCE-NAS (Almaty, Kazakhstan), Arbuzov Institute-RAS (Kazan, Russia), Institute of Chemistry-MAS (Chisinau, Moldova). Total budget *ca.* 90.000 €.
- Coordinator of the NATO Project (NATO-RUSSIA COLLABORATIVE LINKAGE GRANT: CPB.NR.NRCLG 983375) "Degradation of White Phosphorus Residues" (2008 2010) in collaboration with Oleg Sinyashin, IOPC-Russian Academy of Sciences (Kazan, Russia). Total budget 18.000 €
- Coordinator of the NATO project (Collaborative Linkage Grant on Physical and Engineering Science and Technology; PST.CLG.978521) "Ecoefficient Synthesis of Heterocycles via Water Soluble Metal Unsaturated Carbenes" (2001 − 2003). Participants: (ISSECC CNR, Florence, I; University of Almería, Spain; Universitè de Monastir (Tunisia); Université Abdelmalek Essaadi, Tetouan, Morocco. Total budget ca. 10.000 €.
- Coordinator of the NATO Project (Priority Area on High Technology; HTECH-CRG 972135) "²H-Relaxation as a tool to study hydrogen transfer reactions" (1998 2000) in collaboration with Vladimir Bakhmutov, Academy of Sciences of Russia (Moscow, Russia). Total budget ca. 6.000 €
- Working Group Leader of the COST Chemistry Action D17 Working Group 003/00 "C-C Bond Formation Mediated by Transition Metal Complexes: Fundamental Studies and Mechanistic Aspects" (2000 2006). Participants: (ISSECC CNR, Florence, I; Universitè de Rennes-1, Rennes, France; Universidad de Sevilla, Sevilla, Spain; Technische-Universität Wien, Wien, Austria; ENICHEM, Novara, Italy; Università di Pisa, Pisa, Italy; University of Poznan Poland; University of Alméria, Spain, University of Izmir, Turkey).
- Working Group Leader of the COST Chemistry Action CM0802 "European Phosphorus Sciences Network (PhoSciNet)" (2008 2012); Working Group 004/09 "Novel high potential phosphorus compounds for non-

typical applications" (2009 – 2012). Participants: 31 research teams from Italy (ICCOM CNR, UNI Florence, Polytechnic Bari), Germany (UNI Regensburg, UNI Braunschweig, UNI Stuttgart, UNI Leipzig, UNI Bonn, UNI Erlangen-Nürnberg, UNI Münster), France (UNI Toulouse, EPF Palaiseau), United Kingdom (UNI Cardiff, UNI Bristol, UNI St Andrews, UNI Cambridge, UNI Durham), Romania (UNI Cluj-Napoca), Switzerland (ETH Zürich, EPFL Lausanne), Spain (UNI Ciudad Real, UNI Almeria, UNI Oviedo), The Netherlands (UNI Amsterdam), Greece (UNI Athens), Poland (Gdansk Technical UNI) Ireland (UNI Dublin).

- Coordinator of the bilateral Project between CNR (Rome) and the Russian Academy of Sciences (Moscow) "Making and breaking of homo- and heteronuclear bonds via stoichiometric and catalytic reactions mediated by transition metal complexes" agreement (2005 2006; prolonged 2007). Participants: (ICCOM-CNR, Florence, I; ISTM-CNR, Milan, I; University of Ferrara, Ferrara, I; INEOS-RAS, Moscow, RUS; IOPC-RAS, Kazan, RUS; ICSO RAS, Novosibirsk, RUS.
- Coordinator of the bilateral Project between CNR (Rome) and the Russian Academy of Sciences (Moscow) "Making and breaking of homo- and heteronuclear bonds via stoichiometric and catalytic reactions mediated by transition metal complexes" agreement (2002 2003; prolonged 2004). Participants: (ICCOM-CNR, Florence, I; CSMR-CNR, Rome, I; CSSMSTBSO-CNR, Milan, I; TCMET-CNR, Padua, I; INEOS-RAS, Moscow, RUS; IOPC-RAS, Kazan, RUS; ICSO RAS, Novosibirsk, RUS.
- Coordinator of the bilateral Project between CNR (Rome) and the Russian Academy of Sciences (Moscow) "Transition metal mediated homo- and heteronuclear bond cleavage and bond forming involving carbon" agreement (1999 2001). Participants: (ISSECC-CNR, Florence, I; CSMR-CNR, Rome, I; CSSMSTBSO-CNR, Milan, I; TCMET-CNR, Padua, I; INEOS-RAS, Moscow, RUS; ICP-RAS, Chernogolovka, RUS.
- **Deputy Coordinator** of the GRUPPO DI RICERCA INTERNAZIONALE, GDRI, Agreement entitled "Catalyse Homogène pour le Développement Durable (CH2D)" (2008 2011; renewed 2012 2014; prolonged 2015) between CNRS (France), CNR (Italy) and RAS (Russia). Contribution from DPM CNR, 20.000 € (2008).
- Responsible of the industrial contract "White phosphorus activation and functionalization" between ICCOM CNR and the Dutch company THERMPHOS INTERNATIONAL BV (Vlissingen, The Netherlands) (2004/2005); renewed (2006/2008 and 2008/2011). Contribution from the industry, 246.000 €.
- Responsible of the industrial contract "Catalytic synthesis of organophosphites and phosphates" between ISSECC CNR and the German company BASF AG (Ludwigshafen, Germany) (2001); renewed as ICCOM CNR for the year 2002. Contribution from the industry, ca. 60.000 €.
- Responsible of the ICCOM-CNR Research Unit in the INTEGRATED TRAINING NETWORK project RFP7-PEOPLE-2012-ITN 317404 "A European Training Network for Sustainable Phosphorus Chemistry (SUSPHOS)" (2013 2017) (7th RFP). Participants: VU University Amsterdam (Amsterdam, The Netherlands), ICCOM-CNR (Florence, Italy), Universität Leipzig (Leipzig, Germany), Freie Universität Berlin (Berlin, Germany), The University of St. Andrews (St. Andrews, Scotland), University of Bristol (Bristol, UK), Institut Catala d'Investigacio Quimica (Tarragona, Spain), Ecole Polytecnique (Palaiseau, France), ETH (Zurich, Switzerland), Thermphos International B.V. (Vlissingen, The Netherlands), Magpie Polymers SAS (France), DSM Innovative Synthesis BV (Heerlen, The Netherlands). Total budget 3.676.692,69 €.
- Responsible of the ICCOM-CNR Research Unit in the RESEARCH TRAINING NETWORK project HPRN-CT-2002-00176 "New Chemistry and Catalysis with Hydride Compounds (HYDROCHEM)" (2002 2006) (5th RFP). Participants: Université de Bourgogne (Dijon, France), ICCOM-CNR (Florence, Italy), University of York (York, UK), Universitat Autonoma de Barcelona (Barcelona, Spain), Shell International Chemicals B.V. (Amsterdam, The Netherlands), Università di Milano (Milan, Italy), INEOS-RAS (Moscow, Russia). Total budget 1.140.000 €.
- Responsible of the ICCOM-CNR Research Unit in the INTAS project 00-00179 "Proton-transfer reactions in hydride chemistry orchestrated by unconventional hydrogen bonds" (2001 2004). Participants: Université de Bourgogne (Dijon, France), ICCOM-CNR (Florence, Italy), INEOS-RAS (Moscow, Russia), Tbilisi State University (Tbilisi, Georgia), Rostov State University, (Rostov-on-Don, Russia). Total budget 90.000 €.

- Responsible of the ICCOM-CNR Research Unit in the COST Chemistry Action D29 Working Group 0009/03 "Green Chemistry through Aqueous Organometallic Catalysis" (2003 2007). Participants: (University of Debrecen, Debrecen, Hungary; ICCOM-CNR, Florence, Italy; LCC-CNRS, Toulouse, France; University of Almería, Almería, Spain; University of Lausanne, Lausanne, Switzerland; University of Paderborn, Paderborn, Germany; University of Athens, Athens, Greece; University of Durham, UK).
- Responsible of the ICCOM-CNR Research Unit in the project GINSENG "Graphene Innovative 2D Materials for Sustainable Energetics and Catalysis", three years Italy-China Bilateral Project sponsored by MAECI and NSFC (2018 2020). Participants: University of Padua, University of Sassari, IPCB-CNR, ICCOM-CNR, IIT Genoa, Peking University, Chengdu Sichuan University, Shenyang Institute of Metal Research, Chinese Academy of Sciences (IMR, CAS).
- Responsible of the bilateral project between CNR and RFBR (Russian Foundation for Basic Research) "Chemical hydrogen storage through ammoniaborane (AB): synthesis of ab dehydrogenation catalysts and combined spectroscopic/computational studies of the mechanism of hydrogen release" (2015 − 2017), in collaboration with Elena Shubina, INEOS RAS, Moscow, Russian Federation. Total budget for CNR 120.000 €.
- Responsible of the bilateral project between CNR and CONACYT (Mexico) "New ruthenium complexes containing polar groups derived from sugars and aminoacids: synthesis, characterization and their applications in biology, pharmacology and in ecoefficient catalysed processes" (2002-2004; renewed 2006 2008), in collaboration with Lena Ruiz Ramirez, UNAM, Universidad Autonoma de México, Mexico DF.
- **Responsible** of the **bilateral project** between **CNR** and **RAS** (Russian Academy of Sciences) "Sustainable Catalytic Processes" agreement (2008 2010; renewed 2011 2013). Participants: (ICCOM-CNR, Florence, I; INEOS-RAS, Moscow, RUS; IOPC-RAS, Kazan, RUS).
- Responsible of the Galileo Program (Integrated Action Program), between MIUR and MAE (France) "Molecular detectors for heavy transition metals" (2003; renewed for 2004), in collaboration with Stephane Rigaut, Université de Rennes 1, Rennes, France. Total budget 8.000 €
- Responsible of the project "Photochemical Activation of Transition Metal Hydrides" (2003) for the transnational access to the "Plataforma Solar de Almería" (PSA) under the 'Improving Human Research Potential' Programme's 'Access to Research Infrastructures' Activity (5th RFP). Participants: ICCOM-CNR (Florence, Italy), University of Ferrara (Ferrara, Italy)
- Financial Rapporteur (2010 2012) of the COST Chemistry Action CM0802 "European Phosphorus Sciences Network (PhoSciNet)"; elected at the 3rd Management Committee Meeting, Budapest, March 26th, 2010.

NATIONAL ACTIVITY

- Responsible (together with R. Chirone, IRC-CNR) of the MIUR (MINISTRY OF UNIVERSITY AND RESEARCH, Rome, Italy) Project "Progetto Premiale 2014 area "Efficient, clean and secure energy" (MATER: "Materiali Innovativi e Tecnologie Efficienti per le Energie Rinnovabili"). Participants: CNR (leading institution), INRIM, OGS, Science Park Trieste, INGV, Centro Fermi [Total funded budget ca. 5.460.000 €].
- Coordinator and Responsible of the integrated project "FIRENZE HYDROLAB": 'Advanced Research Programme for the production, storage and utilization of hydrogen as energy carrier' (2004 2006; renowned 2007 2009). Participants: ICCOM CNR (Florence, Italy), IFAC CNR (Florence, Italy), University of Florence (Italy), LENS (Florence, Italy). Funded by the 'Ente Cassa di Risparmio di Firenze'. Contribution from the Bank Foundation, 790.000 € (2004); 480.000 € (2005); 562.000 € (2006); 420.000 € (2007); 450.000 € (2008); 200.000 € (2009) [Total budget: 2.902.000 €]

- Coordinator and Responsible of the integrated project "FIRENZE HYDROLAB"² (2012 2015). Participants: ICCOM CNR (Florence, Italy), University of Florence (Italy), LENS (Florence, Italy). Funded by the 'Ente Cassa di Risparmio di Firenze'. Contribution from the Bank Foundation, 45.000 € (2012); 25.000 € (2013); 75.000 € (2014); 70.000 € (2015) [Total budget: 215.000 €]
- Coordinator of the MATTM (MINISTRY OF ENVIRONMENT, Rome, Italy) project PIRODE ("Hydrogen production from renewables and its release on demand through chemical storage") (2010 2012). Participants: DPM CNR (Rome, Italy), M2M Engineering Sas (Napoli, Italy), S&h Software and Hardware Snc (Peschiera Borromeo, MI, Italy), AGEAS (Salerno, Italy). Total budget ca. 805.000 €.
- Coordinator of the MIUR (MINISTRY OF UNIVERSITY AND RESEARCH, Rome, Italy) Project "Progetto Premiale 2012 Line 1: Efficient, clean and secure energy" ("Integrated and eco-sustainable technologies for the production, storage and use of the energy") (2012). Participants DSFTM CNR, DSCTM CNR, DIITET CNR (Rome, Italy). Total funded budget ca. 600.000 €.
- **Recipient** of a charity fund of Fondazione *Ente Cassa di Risparmio di Firenze* to acquire a Dual Beam Electron Microscopy for nanofabrication and characterization of nanostructures and nanomaterials. Total budget 350.000 € (2014). Cofunding from CNR (Rome) 250.000 € (2015/2016).
- Responsible of the industrial contract N° 1400054353 "A process for CO₂ capture with alcoholic solutions of amines" ("Processo di cattura della CO₂ con soluzioni alcoliche di ammine") with the Italian company ENEL SpA (Rome, Italy) (2013). Contribution from the industry, 40.000 €.
- Responsible of a Research Unit in the PROGETTI DI RICERCA DI INTERESSE NAZIONALE (PRIN project 20154X9ATP) Bando MIUR 2015; "Towards a Sustainable Chemistry: Design of Innovative Metal-Ligand Systems for Catalysis and Energy Applications" (2017 2020). Coordinator A. Albinati (University of Milan). Total Budget 550.374 €; research budget for CNR 46.520 €.
- Responsible of a Research Unit in the PROGETTI DI RICERCA DI INTERESSE NAZIONALE (PRIN project 2009LR88XR) Bando MIUR 2009; "Phosphorus activation by organometallics and related sustainable catalytic applications" (2010 2012). Coordinator A. Albinati (University of Milan). Research budget for CNR 67.953 €.
- Responsible of a Research Unit in the PROGETTI DI RICERCA DI INTERESSE NAZIONALE (PRIN) Bando MIUR 2007; "Unconventional activation and functionalization of phosphorus compounds in low oxidation states and their use in stoichiometric and catalytic processes" (2008 2010). Coordinator A. Albinati (University of Milan). Research budget for CNR 130.000 €.
- **Responsible** of the ICCOM-CNR Research Unit in the Executive Project "Photobiological Production of Purified Hydrogen from vegetal wastes (**BIOIDRO**)" (2006) funded by Regione Toscana. Participants; University of Florence, Florence Italy, ICCOM-CNR, Florence, Italy; Fondazione Sacconi, Florence, Italy; Quadrifoglio SpA, Florence, Italy; Fanfani Bandinelli Srl, Florence, Italy; Total budget 40.125 €.
- Responsible of the ICCOM-CNR Research Unit in the Executive Project VECOPREBIO "vernici ecosostenibili per la prevenzione del biodeterioramento", prot. n. 0000014 del 08/01/2016, within the call "Bando Regione Toscana FESR 2014-2020 − Bando n. 2 Progetti di ricerca e sviluppo delle PMI" (2016) funded by Regione Toscana. Total budget for CNR 37.200 €.

RESPONSIBILITIES:

(a) International Organizations

• **Member elected** of the **Executive Board** of **EUROCHEMISTRY** (http://euro-chemistry.org/) (Elected by the EUROCHEMISTRY General Assembly, 23rd October, 2010 - Madrid Spain) (2010 – 2012).

- Member of the Management Committee of the COST Chemistry Action CM1302 "European Network on Smart Inorganic Polymers (SIPs)", appointed by the COST National Coordinator for Italy, Mrs. Maria Uccellatore, MIUR, Rome (2013 2016).
- Member of the Management Committee of the COST Chemistry Action CM0802 "European Phosphorus Sciences Network (PhoSciNet)", appointed by the COST National Coordinator for Italy, MIUR, Rome (2008 2013).
- Chair of the Nominating Committee for the elections of the IUPAC Interdivisional Committee on Green Chemistry for Sustainable Development (ICGCSD) for the 2020 2021 term.

(b) National Research Council (CNR)

Director of the **CNR** "Department of Chemical Sciences and Technologies of Materials", DSCTM CNR (Appointed by the CNR President on February 1st, 2017) (2017 – 2020)

Director of the **CNR "Istituto di Chimica dei Composti Organometallici"**, ICCOM CNR (Appointed by the CNR President on October 16th, 2013) (2013 – 2017).

Deputy Director of the **CNR** "Department of Chemical Sciences and Technologies of Materials", DSCTM CNR (Appointed by the CNR President on February 28th, 2020) (March – April 2020)

Deputy Director of the **CNR** "Istituto di Chimica dei Composti Organometallici", ICCOM CNR (Appointed by the CNR President on February 4th, 2011) (2011 – 2013).

Deputy Director ("Vicario") of the CNR "Dipartimento Progettazione Molecolare" (Appointed by the Director of DPM CNR on September 10th, 2008) (2008 – 2011).

Project Leader at CNR - "Dipartimento Progettazione Molecolare" (Appointed by the CNR President on August 3, 2006) (2006 - 2010); prolonged to -2011):

• Dipartimento di progettazione molecolare 2006: Project PM03 - Progettazione di molecole e sistemi nanostrutturati con proprietà catalitiche. 2007 – 2010: Project PM03 - Prodotti e processi innovativi per una chimica sostenibile.

Chair elected of the Governing Board (*Presidente del Consiglio Direttivo*) of Ce.M.E. (Center for Electron Microscopy) of the CNR Research Area of Florence (2015 – 2020).

Member of the Board of Directors (CdA) of the ENERGEA Society (*Società Consortile a Responsabilità limitata* "ENERGEA") representing CNR (Appointed by the general assembly of "ENERGEA Scrl" on May 20th, 2015) (2015 – 2018).

Deputy Representative of CNR in the **International Union of Pure and Applied Chemistry** – IUPAC (Appointed by the CNR President on February 12th, 2019) (2019 – 2022).

Chairman of the National Committee for the participation of CNR to the International Union of Pure and Applied Chemistry – IUPAC (Appointed by the CNR President on April 16th, 2019) (2019 – 2022).

Titular Representative for CNR at the **European Association for Chemical and Molecular Sciences** (EuChemS), appointed by the CNR President on February 28th, 2020) (2020 – 2022)

Member of the National Committee for the participation of CNR to the IUPAC: International Union of Pure and Applied Chemistry (Appointed by the CNR President on May 31st, 2013) (2013 – 2014).

Coordinator of the CNR Task Force for the global initiative "Mission Innovation" (2016 – 2020)

Coordinator for the CNR activities in the Area "Energia" for the Call MIUR PON "Cluster Tecnologici Nazionali CTN - ENERGIA" (2012).

Member of the Governing body (*Comitato di indirizzo strategico*; representing CNR) established following the **Cooperation Agreement** between **CNR** and **SCI** (*Società Chimica Italiana*); (Appointed by the CNR President on April 23rd, 2015 (2015 – 2016).

Member of the Governing body (*Comitato di indirizzo*; representing CNR) established following the **Cooperation Agreement** between **CNR** and **SCI** (*Società Chimica Italiana*); (Delegate of the CNR President appointed on May 2018 (2018 – 2021).

Member of the Governing body (representing CNR) in the Cluster Tecnologico Nazionale Energia – CTNE (Appointed by the Assembly of CTNE Associates, March 21st, 2013 – Rome, Italy) (2013 – 2014).

Member of the Joint Committee (*Comitato Paritetico di Indirizzo*) between **CNR** and the **University of Camerino** (Appointed by the CNR President on March 2015 (2015 –).

Member of the Governing body (*Comitato di indirizzo strategico*; representing CNR) established following the Cooperation Agreement between DSCTM CNR and C.I.R.M.S.B. (Consorzio Interuniversitario di Ricerca in Chimica dei Metalli nei Sistemi Biologici); (Appointed by the Director of DSCTM on June 13th, 2014 – Rome, Italy) (2014 – 2017).

Coordinator of the CNR technical task-force for the ENEL - CNR framework agreement (2013).

Coordinator of the CNR technical task-force for the CNR interdepartmental project "Energy" (2014).

Member of the **Experts' Committee** for the **Short-Term-Mobility program of CNR** (representing the "Dipartimento Scienze Chimiche e Tecnologia dei Materiali"). Appointed by the CNR President on February 22, 2013. (2013 - 2017)

Member of the **Experts' Committee** for the CNR - Call 2015 for granting two **International Joint Laboratories**, (Area chemistry and multifunctional materials). Appointed by the Director of the Office for the International Relations of CNR on May 15, 2015.

Responsible of the **Operational Agreement** "Valorizzazione del glicerolo per mezzo di catalisi chimica per la produzione di 1,3-propandiolo e/o acido lattico" between **CNR** − "**Dipartimento Progettazione Molecolare**" and the Italian Company "**Finanziaria MOSSI & GHISOLFI Srl**" (2007–2010). Total budget *ca.* 572.000 €.

Responsible of the CNR - "Dipartimento Progettazione Molecolare" Working Group on "Sustainability and Energy" (2008 – 2010).

Member of the Consulting Council of the "Dipartimento Progettazione Molecolare" (2009 - 2011)

Member of the Consulting Council of the "Dipartimento Scienze Chimiche e Tecnologia dei Materiali" (2012 – 2017)

Member of the **Scientific Committee** of the "Accademia dei Meccanismi Molecolari", CNR – DSCTM and CNR – ISOF, Bologna (2018 - ...)

Member of the **Working Group IAR** (*Internazionalization of Research Activities*) of the "**Dipartimento Progettazione Molecolare**" (2010 - 2011)

Responsible of the research projects at ICCOM CNR ("Nuova gestione per commesse"):

Dipartimento di progettazione della funzionalità molecolare
 Progettazione di molecole e sistemi nanostrutturati con proprietà catalitiche
 Nuovi materiali per produzione, purificazione e storage di idrogeno (PM-P02-ISTM-C5 / PM-P02-ICCOM-M2.
 Value 611.903 €) – (2005 – 2006)

Responsible of research projects at ISSECC CNR (1991 – 2002):

• "Dihydrogen Metal Complexes: Synthesis, Characterisation and Reactivity" (1991–1994)

- "Synthesis and characterisation of transition metal organometallic complexes capable of promoting reactions of C-C and C-H bond formation and cleavage" (1995 – 1997)
- "Synthesis, characterization and reactivity of transition-metal hydrides" (1999 2000)
- Selective Activation of Strategic Small Molecules by Organometallic Derivatives of Transition Metals" (1998
 – 2002)
- **Member elected** of the "Board of the Institute" (Consiglio di Istituto) of the ICCOM-CNR (2002 2005; prolonged 2005 2007)
- **Member elected** of the "Scientific Board" (Consiglio Scientifico) of the ISSECC-CNR (1992 1996; re-elected 1996 2002)

(c) Italian Government (Presidenza del Consiglio dei Ministri)

• Member (representing CNR) of the Commission for the "decarbonisation of the economy" (2015 – 2017). Responsible of working group 2: Critical survey of energy technologies (with Gaetano Borrelli, ENEA)

(d) Ministry of Instruction, University and Research (MIUR)

- **Member of the Consulting Board** of the *HORIZON 2020 challenge 'Energy'* (appointed by the Representative of the Ministry (MIUR) on the Challenge 'Energy'), October, 2013. (2013 2020).
- Admitted with the highest rank (excellent) in the National Scientific Qualification (art. 16 of the law 30 December 2010, n. 240) as full Professor (Professore Universitario di Prima Fascia) in the sector 03/B1 "Principles of Chemistry and Inorganic Systems" Call 2012 (DD n° 222/2012) (2013 2017) (Abilitazione Scientifica Nazionale per l'accesso al ruolo di Professore Universitario di Prima Fascia Settore Concorsuale 03/B1 Fondamenti delle Scienze Chimiche e Sistemi Inorganici (SSD CHIM/03 Chimica Generale ed Inorganica)).

(e) Ministry of Foreign Affairs and International Cooperation (MAE)

• Member (representing CNR) of the Mixed Commission for the Industrial, Scientific and Technologic Cooperation Agreement between Italy and Israel (2015 – 2016).

(f) Italian Chemical Society (SCI)

- Coordinator of the Scientific Commission of the Italian Chemical Society (Società Chimica Italiana) (2017 2019). Appointed by the Central Council of SCI.
- Chair elected of the Executive Board of the Division of Inorganic Chemistry of the Italian Chemical Society (Società Chimica Italiana) (2009 2011).
- **Member elected** of the Executive Board of the **Division of Inorganic Chemistry** of the Italian Chemical Society (Società Chimica Italiana) (2003 2005; re-elected 2006 2008).
- Member elected of the Executive Board of the Interdivisional Group "Chemistry of the Renewable Energies" (Chimica delle Energie Rinnovabili ENERCHEM) (2013 2015; re-elected 2016 2018).
- Member of the Constituent Executive Board of the Interdivisional Group "Chemistry of the Renewable Energies" (Chimica delle Energie Rinnovabili ENERCHEM) (2012). Appointed by the Central Council of SCI.

- Italian representative (Delegate of the Italian Chemical Society) in the Working Party "Chemistry and Energy" of EuCheMS (European Association for Chemical and Molecular Sciences) (2007 present).
- Member of the Consulting Committee of the Italian Chemical Society on the issue of "Energy & Chemistry" (2008 – present).
- Member of the Commission for the International Affairs (Commissione Affari Internazionali) of the Italian Chemical Society (2012 2014)
- Member of the Italian Delegation at the 45th IUPAC General Assembly and Council (Glasgow, UK, August 2009)
- Member of the Italian Delegation at the 47th IUPAC General Assembly and Council (Istanbul, TY, August 2013)
- Chairman of the Italian Delegation at the 50th IUPAC General Assembly and Council (Paris, F, July 2019)
- Responsible of the PNR Working Group on "Product and process innovation in chemistry" (appointed by the President of SCI) (2010)
- **Member of the Scientific Committee** of the "Premio Città di Firenze per le Scienze Molecolari" organized by the Italian Chemical Society (since 2002)
- **Member of the SCI Committee** for the "International Year of Chemistry" (appointed by the President of SCI) (2011)
- **Member of the SCI Committee** for the preparation of the regulation for the "Innovation Team Award" ("Premio di innovazione di squadra") (2010)
- Member of the SCI Committee for the assignment of the first "Innovation Team Award" ("Premio di innovazione di squadra") (2011)
- **Delegate of the President** of the Division of Inorganic Chemistry of Italian Chemical Society in the Executive Board of the GICO (Interdivisional group of Organometallic Chemistry) of the Italian Chemical Society (2003 2008).

(g) Regional Board of Tuscany

- Member of the Technological Governmental Board (*Comitato di Indirizzo Tecnologico*) of the Technological District of Tuscany on Energy and Green Economy (appointed by the Regional Board on April 27th, 2015)
- Member of the Technological Governmental Board (Comitato di Indirizzo Tecnologico) of the Technological District of Tuscany on Renewable Energies (appointed by the Regional Board on August 1st, 2011) (2011 2014)
- Member of the Technological-Scientific Board (CTS, Comitato Tecnico-Scientifico) for the areas "Hydrogen Technologies" and "CO₂ Technologies" of the "Innovation Pole for Technologies on Renewable Energies and Energy efficiency" (PIERRE: Polo di Innovazione per le tecnologie sulle Energie Rinnovabili ed il Risparmio Energetico) of the Tuscany Region (2011 2014)
- CNR Representative in the working group "Antenna di Bruxelles" for the area "New Materials & Nanomaterials" (since 2012)

(h) Others

- MP has been appointed for the years 2002 2004 (renewed 2005 2007 and 2008 2010; prolonged 2011 ...) as **member of the Board of Directors** (CdA) of the "Luigi Sacconi" Foundation (Firenze, Italy). Since November 2008 he took the role of Vice President, and then (November 2012) he was elected President of the Foundation
- Member of the Technical-Scientific Board (Comitato Tecnico-Scientifico) of the C.R.E.A. Research Center Energy and Environment (Centro di Ricerca Energia e Ambiente Soc. Cons. a r.l.) at Colle di Val d'Elsa (appointed by the Rector of the University of Siena, July 17th, 2012)
- MP has been member of the **Working Group AIRI** (Associazione Italiana per la Ricerca Industriale) priority "**Chemistry**" for the preparation of the book "*Priority Technologies for the Industry*" (7th Ed, 2009; 8th Ed, 2013; 9th Ed, 2015).
- MP has been member of the **Working Group AIRI** (Associazione Italiana per la Ricerca Industriale) priority "**Energy**" for the preparation of the book "Priority Technologies for the Industry" (9th Ed, 2015).
- MP has been member of the Scientific and Technical Evaluation Committee (Comitato di valutazione tecnico scientifico) of the AIRI "Oscar Masi" Prize 2011 dedicated to the "Process and product innovation in Chemistry"
- MP is member of the **Steering Committee** of **AIRI/nanotech IT**, the technological division of AIRI aimed at promoting nanotechnologies and and their industrial applications (since 2017)
- Since 2010 MP has been appointed as a member of the **Scientific and Technical Board**, for the area "Hydrogen of **Energethica SrL**, a private organization to disseminate the use of renewable and sustainable energy"
- MP has been appointed as Member of the "Collegio Docenti di Dottorato" of the Department of Chemistry of the University of Florence (2010 2013)
- MP has been appointed as Member of the "Collegio Docenti di Dottorato" of the Department of Biotechnology, Chemistry and Pharmacy of the University of Siena (since 2013)
- MP has been appointed since 2006 as the CNR-representative in the "Comitato di Indirizzo dei corsi di laurea di area chimica" of the **University of Florence** (Legge Riforma universitaria n° 270/04); Renewed November 2015.
- MP has been appointed as Member of the **Steering Committee** of the Master Degree in "Advanced Molecular Sciences" of the **University of Florence**, Department of Chemistry "Ugo Schiff"
- MP has been Member of the Commission to evaluate the candidature of Prof. D. Gatteschi (University of Florence) to the rank of Emeritus Professor (May, 2016).

Memberships:

- Member of the *Italian Chemical Society* (*Società Chimica Italiana*), Division of Inorganic Chemistry, since 1982.
- Member of the **Interdivisional group of "Organometallic Chemistry"** of the Italian Chemical Society GICO, since its institution, 1990.
- Member of the Interdivisional group "Chemistry of the Renewable Energies" of the Italian Chemical Society ENERCHEM, since its institution, 2012.
- Member of the National Group of Foundations and History of Chemistry (*Gruppo Nazionale di Fondamenti e Storia della Chimica*), since 2019.
- Member of the American Chemical Society, Division of Inorganic Chemistry, since 2003.

- Member of the International Union of Pure and Applied Chemistry (IUPAC), (2014 2015)
- Member (invited) of the European Science Foundation (ESF), College of Expert Reviewers (2018 ...)

Reviewing Activities:

- MP has been appointed (2008) as **Member of the External Evaluation Panel** (Area Chemistry; Panel EEC 8.1) of the Strategic Plans of **CSIC** (**Consejo Superior de Investigaciones Cientificas**), Madrid (Spain), for the years 2010 2013.
- MP has been appointed by AERES (Agence d'évalutation de la recherche et de l'enseignement superior Paris, France) as a Member of the Visiting Committee to assess the research activity of Centre International de Recherche aux Frontières de la Chimie (RTRA CIRFC) at Strasbourg University (2013).
- MP has been invited to join the **College of Expert Reviewers** (Area Chemistry) of the **European Science Foundation (ESF)**, Strasbourg (France), since 2018.
- MP has served as **Expert Evaluator** for the **European Research Council** 'ERC Advanced Grant 2012 and 2016' and 'ERC Consolidator Grant 2017' in the field of 'Synthetic chemistry and materials', panel PE5.
- MP has served as an Expert Evaluator for INTAS, [INTAS, Brussels, Belgium (INTAS Call 2000, INTAS Open Call 2003, Kazakhstan-INTAS Collaborative Call 2004, INTAS Open Call 2005, INTAS Young Scientist Fellowships 2003, 2004, 2005 and 2006], for the COST Chemistry Actions (EC, Brussels) and for the DG Research Directorate L (Science, Research & Development) of the European Commission.
- He was member of the Board of Experts of the CIVR (Committee for Research Evaluation 2005; Panel C03 Chemistry) and of the register of reviewers of the MIUR (Research and University Ministry of Italy; Panel C03 Chemistry). He has served as reviewer for MIUR of projects submitted to PRIN 2008 (MIUR, panel CHIM03) and FIRB 2010 ('Futuro in Ricerca 2010'). He served as referee for the Evaluation of research products: a) VQR 2004-2010) on behalf of ANVUR (panels: GEV 02, Physical Sciences; GEV 03, Chemical Sciences; b) VQR 2011-2014) on behalf of ANVUR (Agenzia Nazionale per la Valutazione del sistema Universitario e della Ricerca).
- He has been member of the **Board of Experts Evaluation Panel** for the Poles of Innovation of the "**Piedmont Region**" (POR FESFR 2007/2013).
- He has served as **member of the Referee Panel** for the following institutions:
- **TAMOP** 4.2.1/B-09/1/KONV-2010-0007 European Research grant on the Molecular Sciences Focus Area of the University of **Debrecen (Hungary)** (2012)
- International bilateral projects presented at CNR (Rome, Italy)
- Eurocores projects: evaluation of the research activity of CNR research teams (Rome, Italy) (2012 2013)
- Projects presented at the **University of Florence** (Florence, **Italy**)
- Projects presented at the **University of Padua** (Padua, **Italy**)
- Projects presented at the University Ca' Foscari of Venice (Venice, Italy)
- Projects presented at the **Nanyang Technological University** (**Singapore**)
- Projects presented at the IDEX program "Attractivity Chairs 2013" of the **Université de Toulouse** (Toulouse, **France**)

He has been referee for the following international and national institutions and agencies:

- National Science Foundation (Washington, DC, USA)
- Petroleum Research Fund of the American Chemical Society (Washington, DC, USA)

- French National Research Agency (ANR, Paris, France) for joint French-German projects
- French National Research Agency (ANR, Paris, France) for the program Blanc SIMI 7 2012
- German Research Foundation (DFG, Germany) for joint French-German projects
- Volkswagen Foundation (Hannover, Germany)
- Israel Science Foundation (ISF, Jerusalem, Israel)
- Netherlands Organisation for Scientific Research (NWO) Division for Chemical Sciences (CW), (The Hague, The Netherlands)
- Research Foundation Flanders (FWO, Brussels, Belgium)
- Competence Center Energy and Mobility (CCEM) Villigen, Switzerland
- Swiss National Science Foundation (SNSF), fellowships programme for advanced researchers, Bern,
 Switzerland
- Austrian Science Fund, Department for Natural and Technical Sciences (FWF, Vienna, Austria)
- Fonds National de la Recherche for AFR program (Aides à la formation recherche), Luxemburg
- Hungarian Scientific Research Fund (OTKA), Hungary
- National Research, Development and Innovation Office, (NRDI), Hungary
- Agency for Science, Technology and Research (A*STAR), Singapore
- President's Science and Technology Awards, Singapore
- Research Grants Council (RGC), Hong Kong
- Review Committee of the Hong Kong University of Science and Technology (Hong Kong)
- The Millennium Science Initiative, Ministry of Economy, Development and Tourism of Chile (Chile)
- FONDECYT, Fondo Nacional de Desarrollo Científico y Tecnológico, National Commission for Scientific and Technological Research (CONECYT), Chile
- TUBITAK Science Award (Turkey)
- Ministry of Education, Youth and Science for bilateral research programs of the Bulgarian Academy of Sciences (Sofia, Bulgaria)
- Georgian National Science Foundation (Tbilisi, Georgia)
- Rustaveli Foundation (Tbilisi, Georgia)
- Academia Europæa (Prizes for Young Russian Scientists, Russia)
- Academic Council, Qassim University (Al-Qassim, Saudi Arabia)
- The Academy of Sciences for the Developing World (TWAS, Trieste, Italy)
- **Provincia Autonoma di Trento,** Comitato per la ricerca e l'innovazione della Provincia Autonoma di Trento, valutazione progetti di ricerca industriale (2018) (Trento, **Italy**)

Referee of the following international journals (72):

• AMERICAN CHEMICAL SOCIETY (14):

Chemical Reviews; Accounts of Chemical Research; Journal of the American Chemical Society; ACS Catalysis; Journal of Physical Chemistry Letters; Organic Letters; Inorganic Chemistry; Journal of Organic Chemistry; Organometallics; Crystal Growth & Design; Environmental Science & Technology; Energy & Fuels; Industrial & Engineering Chemistry Research; ACS Omega

• ROYAL SOCIETY OF CHEMISTRY (11):

Chemical Society Reviews; Energy & Environmental Science; Chemical Sciences; Chemical Communications; Journal of the Chemical Society, Dalton Transactions; Organic & Biomolecular Chemistry; Crystal Engineering Communications; Physical Chemistry Chemical Physics (PCCP); New Journal of Chemistry; RSC Advances; Catalysis Science & Technology

• *WILEY-VCH* (12):

Angewandte Chemie International Edition; ChemSusChem; Chemistry a European Journal; Advance Synthesis and Catalysis; Chemistry Select, Chemistry an Asian Journal; ChemCatChem; European Journal of Organic Chemistry; European Journal of Inorganic Chemistry; Applied Organometallic Chemistry; Heteroatom Chemistry; Journal of Heterocyclic Chemistry

• *ELSEVIER SA (18):*

Coordination Chemistry Reviews; Applied Catalysis A: General; Journal of Colloid and Interface; Tetrahedron Letters; Journal of Molecular Catalysis; International Journal of Hydrogen Energy; Materials Science & Engineering C; Spectrochimica Acta; Arabian Journal of Chemistry; Journal of Molecular Structure; Journal of Cleaner Production; Journal of CO₂ Utilization; Journal of Organometallic Chemistry; Inorganic Chemistry Communications; Catalysis Communications; Inorganica Chimica Acta; Polyhedron; Comptes Rendus Chimie;

• NATURE PUBLISHING GROUP (1):

Scientific Reports

• SPRINGER VERLAG (3):

Topics in Catalysis, Catalysis Letters, Medicinal Chemistry Research

• *THIEME VERLAG* (2):

Synletters; Synthesis

• *TAYLOR & FRANCIS (4):*

Journal of Coordination Chemistry; Synthetic Communications; Spectroscopy Letters; Phosphorus, Sulfur, Silicon and the Related Elements

• OTHERS (6):

Canadian Journal of Chemistry (NRC, Canada); Gazzetta Chimica Italiana (SCI, Rome, I); Journal of the Brazilian Chemical Society (BCS, Brazil); Journal of the Chemical Society of Pakistan (CSP, Pakistan); Chimica Oggi/Chemistry Today (TEKNOSCIENZE, Milan, I); Physical and Chemical News (BEST Editions, Morocco).

• Referee of the following online web journals (12): Arkivoc; Current Catalysis; Current Organic Chemistry; Current Inorganic Chemistry; European Journal of Chemistry; Molbank (MDPI); Molecules (MDPI); International Journal of Inorganic Chemistry; International Journal of Organic Chemistry; The Open Catalysis Journal; The Open Inorganic Chemistry Journal; Research Letters in Inorganic Chemistry.

Referee of book Chapters for ELSEVIER ("Recent Advances in Hydride Chemistry") and WILEY ("Iridium Complexes in Organic Chemistry"; "Encyclopedia of Catalysis, 2nd Ed.")

Referee of concept/proposal for new books for WILEY-VCH, TAYLOR & FRANCIS and SPRINGER-VERLAG.

Referee of submitted contributions to the 5th International Youth Conference on Energy 2015 (Pisa. Italy)

Lectureships and Academic Activities:

Visiting Professor:

- 1. University of Rennes, **France** (1990)
- 2. University of Alméria, Spain (2001)
- 3. University of Vigo, **Spain** (2007)
- 4. Conference Universitaire de Suisse Occidentale, Commission Scientifique pour l'Enseignement du 3^E Cycle en Chimie, *Ecole Polytechnic Federale de Lausanne, University of Neuchatel, University of Basel*, **Switzerland** (2008)
- 5. University of La Laguna, Tenerife, Canary Islands, **Spain** (2009)
- 6. University of Strasbourg, **France** (2012)

Visiting Scientist:

- 1. Instituto Venezolano de Investigaciones Cientificas (IVIC Caracas, Venezuela) (1993)
- 2. van't Hoff Institute of Chemistry, University of Amsterdam, Amsterdam, **The Netherlands**; fellow of the John van Geuns Foundation (1996 and 2000)
- 3. Russian Academy of Sciences, Nesmeyanov Institute of Organoelement Compounds (INEOS Moscow, **Russia**) (1999 and 2004)
- 4. Polish Academy of Sciences, Center of Molecular and Macromolecular Studies (CMMS, Łodz, **Poland**) (2001)
- 5. Universidad Autonoma de México, UNAM Mexico D.F., Mexico (2004 and 2008)
- 6. Russian Academy of Sciences, Arbuzov Institute of Organic Physical Chemistry (IOPC Kazan, **Russia**) (2007)
- 7. Naturwissenschaftliche Fakultät IV, Chemie und Pharmazie, Universität Regensburg, Regensburg, Germany, fellow of the Hans Vielberth Stiftung (2007, 2012 and 2019)
- 8. Institute of natural resources, Tomsk Polytechnic University, (TPU, Tomsk, Russia) (2015)

Invited Lecturer:

- 1. *University of Rennes*, Rennes 1990 (**France**)
- 2. University of Bari, Bari 1991 (Italy)
- 3. University of Ferrara, Ferrara 1992 (Italy)
- 4. Instituto Venezolano de Investigaciones Científicas, IVIC, Caracas 1993 (Venezuela)

- 5. University of Siena, Siena 1994 (Italy)
- 6. University of Padova, Padua 1994 (Italy)
- 7. Northern Arizona University, Flagstaff, AZ 1995 (USA)
- 8. *University of Leiden*, Leiden 1996 (**The Netherlands**)
- 9. van't Hoff Institute of Chemistry, University of Amsterdam, Amsterdam 1996 (The Netherlands)
- 10. *University of Sevilla*, Seville 1996 (**Spain**)
- 11. Laboratoire de Chimie de Coordination, CNRS, Toulouse 1996 (France)
- 12. European Commission, DG XII RTD, Brussels 1998 (Belgium)
- 13. *University of Alméria*, Alméria 1999 (**Spain**)
- 14. *Kazakh Academy of Science, Institute of Organic Catalysis and Electrochemistry, IOCE*, Almaty 1999 (**Republic of Kazakhstan**)
- 15. Russian Academy of Sciences, Nesmeyanov Institute of Organoelement Compounds, INEOS, Moscow 1999 (Russian Federation)
- 16. Eidgenössische Technische Hochschule, ETH, Zürich 2000 (Switzerland)
- 17. Institute of Molecular Chemistry, University of Amsterdam, Amsterdam 2000 (The Netherlands)
- 18. University of Florence, Department of Environmental Law, Florence 2000 (Italy)
- 19. Ammoniak Laboratorium, BASF AG, Ludwigshafen 2000 (Germany)
- 20. *University of Kaiserslautern*, Kaiserslautern 2000 (**Germany**)
- 21. Department of Chemistry, University of Rome, "La Sapienza", Rome 2000 (Italy)
- 22. Polish Academy of Sciences, Center of Molecular and Macromolecular Studies, Łodz 2001 (Poland)
- 23. Department of Organometallic Chemistry, Adam Mickiewicz University, Poznan 2001 (Poland)
- 24. Faculty of Chemistry, University of Wroclaw, Wroclaw 2001 (**Poland**)
- 25. Department of Chemistry, University of Warsaw, Warsaw 2001 (**Poland**)
- 26. Department of Chemistry, University of Huelva, Huelva 2001 (Spain)
- 27. Department of Chemistry, University of Cadiz, Cadiz 2001 (Spain)
- 28. Consejo Superior de Investigaciones Cientificas, Seville 2001 (Spain)
- 29. University of Perugia, Perugia 2002 (Italy)
- 30. Institute of Applied Synthetic Chemistry, Vienna University of Technology, Vienna 2002 (Austria)
- 31. Department of Chemistry, University of Granada, Granada 2003 (Spain)
- 32. University of Florence, Department of Organic Chemistry, Florence 2003 (Italy)
- 33. *University of Parma, Department of Chemistry*, Parma 2004 (Italy)
- 34. University of Venice, Department of Chemistry, Venice 2005 (Italy)
- 35. University of Vigo, Department of Inorganic Chemistry, Vigo 2005 (Spain)
- 36. Polytechnic of Bari, Department of Water Engineering and Chemistry, Bari 2006 (Italy)
- 37. University of Burgos, Burgos 2006 (Spain)
- 38. *University of Valladolid*, Valladolid 2006 (**Spain**)
- 39. Russian Academy of Sciences, Arbuzov Institute of Organic Physical Chemistry, IOPC, Kazan 2007 (Russian Federation)
- 40. University of Regensburg, Institut für Anorganische Chemie, Regensburg 2007 (Germany)
- 41. Ludwig Maximilians Universität München, Department of Chemistry and Biochemistry, Munich 2007 (Germany)
- 42. Istituto di Chimica del Riconoscimento Molecolare, ICRM CNR, Milano 2008 (Italy)
- 43. University of Messina, Department of Chemistry, Messina 2008 (Italy)
- 44. University of Catania, Scuola Superiore di Catania, Catania 2008 (Italy)
- 45. Gruppo di Lavoro AIRI Tecnologie Prioritarie-Chimica, Vinavil SpA "Polimeri per l'Industria", Milano 2008 (Italy)
- 46. Ecole Polytechnic Federale de Lausanne, Lausanne 2008 (Switzerland)
- 47. University of Neuchâtel, Institut de Chimie, Neuchatel 2008 (Switzerland)
- 48. University of Basel, Département de Chimie, Basel 2008 (Switzerland)
- 49. University of Padova, Department of Chemistry, Padua 2008 (Italy)
- 50. University of Bari, Scuola di Dottorato in Scienze Chimiche, Department of Pharmaceutical Chemistry, Bari 2009 (Italy)
- 51. University of La Laguna, Department of Inorganic Chemistry, Tenerife, Canary Islands 2009 (Spain)
- 52. Dipartimento di Chimica, University of Rome, "La Sapienza", Rome 2009 (Italy)
- 53. Inorganic Chemistry Colloquium, Ludwig Maximilians Universität München, Chemistry Department, Munich 2009 (Germany)
- 54. Department of Chemistry, University of California at Riverside, Riverside (CA) 2010 (USA)
- 55. Dipartimento di Scienze e Tecnologie Chimiche, University of Udine, Udine 2010 (Italy)

- 56. University of 7th November at Carthage, Higher Institute of Sciences and Technology of Environment, Borj Cedria 2010 (**Tunisia**)
- 57. Department of Chemistry, The Chinese University of Hong Kong, Hong Kong 2010 (Hong Kong)
- 58. Department of Chemistry, The Hong Kong University of Science and Technology, Hong Kong 2010 (Hong Kong)
- 59. Dipartimento di Chimica Industriale, University of Bologna, Bologna 2010 (Italy)
- 60. School of Advanced Studies, University of Camerino, Camerino (MC) 2010 (Italy)
- 61. Leibniz Institute for Catalysis at the University of Rostock (LIKAT), Rostock 2011 (Germany)
- 62. *Université Claude Bernard Lyon 1*, Lyon-Villeurbanne 2012 (**France**)
- 63. Laboratoire de Chimie de Coordination, delivering of the <u>"Paul Sabatier Lecture"</u>, Toulouse 2012 (France)
- 64. Institut de Chimie, Université de Strasbourg, Strasbourg 2012 (France)
- 65. Université Pierre et Marie Curie, Paris VI, Jussieu, Paris 2012 (France)
- 66. University of Regensburg, Institut für Anorganische Chemie, delivering of the "Hans Vielberth Stiftung Lecture", Regensburg 2012 (Germany)
- 67. University of Bari, Doctoral School in Chemical and Molecular Sciences, Department of Chemistry, Bari 2012 (Italy)
- 68. Institut de Chimie, Université de Strasbourg, Strasbourg 2012 (France)
- 69. University of Trieste, Department of Chemical and Pharmaceutical Sciences, Trieste 2013 (Italy)
- 70. University of Artois, Unité de Catalyse et de Chimie du Solide (UCCS), Lens 2014 (France)
- 71. Institute of Chemistry of Organometallic Compounds National Research Council, ICCOM CNR UOS Pisa, Pisa 2015 (Italy)
- 72. Institute of Natural Resources, Tomsk Polytechnic University (TPU), Tomsk 2015 (Russia)
- 73. Charles University, Department of Inorganic Chemistry, Faculty of Science, Prague 2017 (Czech Republic)
- 74. Departamento de Quimica Inorganica, Universidad de Zaragoza, and Instituto de Sintesis Quimica y Catalisis Homogenea (ISQCH), CSIC, Zaragoza 2017 (Spain)
- 75. State Key Laboratory of Coordination Chemistry, Nanjing University, Chinese Academy of Sciences, Nanjing 2017 (People Reublic of China)
- 76. The State Key laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 2017 (People Reublic of China)
- 77. Suzhou Research Institute of LICP, The State Key Laboratory for Oxo Synthesis and Selective Oxidation, Chinese Academy of Sciences, Suzhou 2017 (People Reublic of China)
- 78. University of Regensburg, Institut für Anorganische Chemie, delivering of the "Hans Vielberth Stiftung Lecture", Regensburg 2019 (Germany)
- 79. Ariel University, The Department of Chemical Sciences, Kiryat Hamada Ariel, West Bank 2019 (Israel)
- 80. Chalmers University of Technology, 2D-TECH Center, Gothenburg 2020 (Sweden). Webinar

${\bf Plenary, Keynote\ and\ Session\ Lecturer\ (invited):}$

- 1. Ist Italian-Portuguese-Spanish Meeting in Inorganic Chemistry, Gandia, Spain 1990 (SL)
- 2. Xth FECHEM Conference on Organometallic Chemistry, Crete, Greece, 1993 (SL)
- 3. XXth Conferenza Nazionale di Chimica Inorganica, Villasimius, Cagliari, Italy, 1993 (PL)
- 4. *IV*th Eurasia Conference on Chemical Sciences, Kuala Lumpur, **Malaysia**, 1994 (KNL Minisymposium organizer)
- 5. XXXIst International Conference on Coordination Chemistry, Vancouver, Canada, 1996 (SL)
- 6. IInd International Symposium on Inorganic Phosphate Materials, Nagoya, **Japan**, 1996 (SL)
- 7. XIX Congresso Interdivisionale della Società Chimica Italiana, Riccione, Italy, 1996 (SL)
- 8. Workshop INEOS-98 "Organometallic Chemistry on the Eve of the 21st Century", Moscow, **Russian Federation**, 1998 (SL)
- 9. INCO Copernicus Review Meeting, Brussels, Belgium, 1998 (KNL)
- 10. PRE-OMCOS Symposium on Organometallics and Catalysis, Rennes, France, 1999 (SL)
- 11. IInd Italian-Korean Meeting on Inorganic Chemistry, Florence, Italy, 2000 (SL)
- 12. IInd Singapore International Chemical Conference, Singapore, Singapore, 2001 (SL)
- 13. New Approaches in Organometallic and Coordination Chemistry. Look from 21st Century", Nizhny Novgorod, Russian Federation, 2002 (SL)
- 14. Workshop Meeting of the COST Action D17, University of Warwick, Coventry, UK, 2002 (KNL)
- 15. 225th American Chemical Society National Meeting, New Orleans, LA, USA, 2003 (KNL)
- 16. XXI Congresso della Società Chimica Italiana, Turin, Italy, 2003 (PL)

- 17. Royal Society of Chemistry 6th Dalton Discussion on Organometallic Chemistry and Catalysis, York, UK, 2003 (KNL)
- 18. XXXIII Congresso Nazionale di Risonanze Magnetiche, Bressanone, Italy, 2003 (SL)
- 19. VIIIth Eurasia Conference on Chemical Sciences, Hanoi, Vietnam, 2003 (KNL, Minisymposium Organizer)
- 20. "Modern Trends in Organoelement and Polymer Chemistry", Moscow, Russian Federation, 2004 (SL)
- 21. XVIth International Conference on Phosphorus Chemistry, Birmingham, UK, 2004 (SL)
- 22. 5th International School on Molecular Catalysis, ISMC5, Poznan, Poland, 2005 (SL)
- 23. Meeting on Urban European Mobility, Florence, Italy, 2005 (SL)
- 24. 5th International School on Organometallic Chemistry, ISOC5, Camerino (MC), Italy, 2005 (PL)
- 25. XXXth Biannual Conference of the Spanish Royal Society of Chemistry, Lugo, Spain, 2005 (SL)
- 26. La strategia dell'Ente Cassa di Risparmio di Firenze per la promozione e il finanziamento della ricerca scientifica; conferenza di presentazione di alcuni progetti in occasione della XVI Settimana della Cultura Scientifica, Firenze, Italy, 2006 (PL)
- 27. XXIInd International Conference on Organometallic Chemistry, Zaragoza, Spain, 2006 (SL)
- 28. IVth IV KIMIC-Korea-Italy Meeting on Inorganic Chemistry, Malcesine (VR), Italy, 2006 (SL)
- 29. "Pianeta Galileo" 2006, Consiglio Regionale della Toscana, Pisa, Italy, 2006 (KNL)
- 30. Seminario REACh: Metodi alternativi di valutazione chimica della tossicità in prodotti industriali ai fini del superamento dei test sugli animali, CNR, Rome, **Italy**, 2007 (KNL)
- 31. IXth FIGIPAS Meeting in Inorganic Chemistry, Vienna, Austria, 2007 (SL)
- 32. Synthesis and Methodologies in Inorganic Chemistry (SAMIC 2007), Bressanone (BZ), Italy, 2007 (PL)
- 33. Kick-off meeting of the GDRI "Catalyse Homogène pour le Développement Durable (CH2D)", Rennes, France, 2008 (KNL)
- 34. Energeticha Congress: Idrogeno un futuro possibile, Florence, Italy, 2008 (SL)
- 35. Hydrogen Show 2008: hi.tech.expo. 7th Int'l exhibition on hydrogen and fuel cells, Milan, Italy, 2008 (SL)
- 36. Workshop "Entra nella rete Energetica: vantaggi per le imprese toscane", Florence, Italy, 2009 (SL)
- 37. 4° Salone dell'Energia rinnovabile e sostenibile: "La filiera dell'idrogeno", Genoa, **Italy**, 2009 (SL)
- 38. Kick off meeting of the Working Groups of the COST Action CM0802 PhoSciNet, Florence, Italy, 2009 (KNL)
- 39. PRIN-2007 Ist Meeting "Nuove strategie per il controllo delle reazioni metallo assistite: interazioni non convenzionali di frammenti molecolari, Bologna, **Italy**, 2009 (SL)
- 40. Meeting AISPEC-Federchimica/CNR: "Ricerca Pubblica e Privata nella Chimica Fine e Specialistica", Federchimica, Milano, Italy, 2009 (SL)
- 41. Vth KIMIC-Korea-Italy Meeting on Inorganic Chemistry, Pohang, South Korea, 2009 (SL)
- 42. IInd Symposium Latinoamericano de Química de Coordinación y Organometálica (SiLQCOM), Maracaibo, Venezuela, 2009 (SL)
- 43. IEA-HIA, Hydrogen Implementing Energy: Task 21, Biohydrogen Expert Meeting: Florence, Italy, 2010 (KNL)
- 44. 9th ENERGETHICA Congress: "Amministrare una città sostenibile": Genoa, Italy, 2010 (SL)
- 45. Meeting: "Le innovazioni del prossimo futuro: Tecnologie Prioritarie per l'Industria", AIRI Associazione Italiana per la Ricerca Industriale, Tecnopolo Tiburtino, Rome, Italy, 2010 (SL)
- First annual meeting of the Working Groups of the COST Action CM0802 PhoSciNet, Budapest, Hungary, 2010 (KNL)
- 47. "La chimica di base al servizio del territorio", Bari, Italy, 2010 (SL)
- 48. IInd International Conference on Hydrogen Energy (ICHE10), Hammamet, Tunisia, 2010 (PL)
- 49. Scuola Nazionale di Chimica Organometallica per Dottorandi, Bertinoro, Italy, 2010 (PL)
- 50. "Science and Society" "Energy and Future", Series of meetings of "Amici di Groppoli" Association, Villa Groppoli Masotti, Pistoia, Italy, 2010 (PL)
- 51. CNR/CNRS Workshop "Homogeneous Catalysis for Sustainable Development", Rome, Italy, 2010 (SL)
- 52. 3° Workshop Internazionale del programma T.A.C.E.C. (Towards A Carbon Efficient Chemistry)", Milan, Italy, 2010 (SL)
- 53. 24th International Conference on Organometallic Chemistry (ICOMC 2010), Taipei, Taiwan, 2010 (SL)
- 54. Second annual meeting of the Working Groups of the COST Action CM0802 PhoSciNet, Münster, Germany, 2011 (KNL)
- 55. Second PhoSciNet training School "From Fundamental Phosphorus Chemistry to Applications", Münster, Germany, 2011 (PL)
- 56. Meeting on "New Trends in Research & Innovation", Rome, Italy, 2011 (SL)
- 57. Workshop "Innovazione e ricerca per risolvere il problema energia: I risultati del progetto FIRENZE-HYDROLAB (2004 – 2009)", Accademia dei Georgofili, Firenze, **Italy**, 2011 (PL)

- 58. GECOM CONCOORD 2011, Congrès de Chimie de Coordination, Chimie Organométallique et Catalyse, Merlimont, Francia, 2011 (PL)
- 59. XIXth EuCheMS Conference on Organometallic Chemistry (XIX EuCOMC), Toulouse, France, 2011 (PL)
- 60. Forum: "L'energia: una priorità per il nostro paese, per il suo sviluppo competitivo e sostenibile", Rotary Club Felsinei, Bologna, **Italy**, 2011 (KNL)
- 61. Convegno "Mostra delle Idee", Etna Expo, Centro Commerciale Etnapolis, Catania, Italy, 2011 (PL)
- 62. Convegno "Un tributo a Luigi Sacconi nel Centenario della nascita: Riunione allievi Scuola di Chimica Inorganica", CERM, Università di Firenze, Italy, 2011 (KNL)
- 63. International Green Catalysis Symposium & Advanced Spring School on Green Catalysis, Université de Rennes, France, 2012 (SL)
- 64. 12th Eurasia Conference on Chemical Sciences. EuAsC₂S-12, Corfu, Greece, April 2012 (SL)
- 65. Workshop of the Ministry of Environment (MATTM, Rome, I) "I "100 Progetti" Ricerca ed Innovazione per lo sviluppo dell'energia sostenibile e dell'efficienza energetica", Politecnico di Milano, **Italy** 2012 (IL)
- 66. SPRING Meeting 2012 "Designing metal containing molecular fragments for advanced chemical applications", Bertinoro, Italy, May 2012 (SL)
- 67. 15th International Congress on Catalysis 2012, 15 ICC, Munich, Germany, July 2012 (KNL)
- 68. 19th International Conference on Phosphorus Chemistry, Rotterdam, The Netherlands, July 2012 (PL)
- 69. 25th International Conference on Organometallic Chemistry (ICOMC 2012), Lisbon, Portugal, September 2012 (SL)
- 70. CNR meets SERBIA, Belgrade, Serbia, November 2012 (IL)
- 71. CNR SABIC Workshop, Rome, Italy, January 2013 (IL)
- 72. Phoscinet: Final Conference@10th European Workshop on Phosphorus Chemistry, Regensburg, Germany, March 2013 (SL)
- 73. Workshop: La Società Chimica Italiana: missione, organizzazione, prospettive, Rome, Italy, July 2013 (IL)
- 74. 1° Workshop Toscano sull'Idrogeno e Tecnologie Collegate, Florence, Italy, July 2013 (IL)
- 75. IUPAC 44th World Chemistry Congress, The Turkish Chemical Society, Istanbul, **Turkey**, August 2013 (KNL)
- GDCh-Wissenschaftsforum Chemie 2013, The German Chemical Society, Darmstadt, Germany, September 2013 (PL)
- 77. 247th American Chemical Society National Meeting, Dallas, TX, USA, March 2014, ACS Awards: Symposium in Honor of Guy Bertrand (KNL)
- 78. XLI International Conference on Coordination Chemistry (ICCC-41), Singapore, Singapore, July 2014 (SL)
- 79. Ist joint CSIC-CNR workshop "Nanotechnology and Energy", Madrid, Spain, November 2014 (IL)
- 80. International Workshop "Metals, water and Sun" 2015, Almeria, Spain, May 2015 (PL)
- 81. VI Razuvaev Lectures "Organometallic and Coordination Chemistry: Achievements and Challenges", Nizhny Novgorod, Russian Federation, September 2015 (PL)
- 82. Giornata DSCTM 2015, "Sharing knowledge and expertise for a better society", Cetraro (CS), Italy, October 2015 (KNL)
- 83. 5th Symposio Latinoamericano de Química de Coordinación y Organometálica (SiLQCOM-2015), Agra dos Reis, RJ, **Brazil**, October 2015 (SL, closing lecture)
- 84. ECOMONDO, The Green technology Expo, Rimini, Italy, Novembre 2015 (IL)
- 85. Korea Italy Bilateral Symposium on "Beyond Graphene", Seoul, South Korea, May 2016 (IL)
- 86. COGICO-2016, 12th National Conference of the Interdivisional Group of Organometallic Chemistry, Genoa, **Italy**, June 2016 (PL)
- 87. XLII International Conference on Coordination Chemistry (ICCC-42), Brest, France, July 2016 (IL)
- 88. Final meeting of the ITN project RFP7-PEOPLE-2012-ITN 317404 "A European Training Network for Sustainable Phosphorus Chemistry (SUSPHOS)", Amsterdam, The Netherlands, January 2017 (PL)
- 89. *Italian ERC Chem Day*, celebration of the 10th anniversary of the European Research Council, *Accademia dei Lincei*, Rome, **Italy**, March 2017 (IL)
- 14th European Workshop on Phosphorus Chemistry (EWPC-14), Cluj-Napoĉa, Romania, March 2017 (PL)
- 91. International Conference on Phosphorus, Boron and Silicon (PBSi-2017), Paris, France, July 2017 (PL)
- 92. XXVI Congresso Nazionale della Società Chimica Italiana
 Eventi satellite di interese generale: Grafene e sue possibili applicazioni industriali
 Paestum (SA), Italy, September 2017 (IL)

- 93. XLIII International Conference on Coordination Chemistry (ICCC-43), Sendai, Japan, July 2018 (KNL)
- 94. Symposium in honor of Professor Ernesto Carmona, Sevilla, Spain, October 2018 (KNL)
- 95. International Conference on Phosphorus, Boron and Silicon (PBSi-2018), Barcelona, Spain, December 2018 (PL)
- 96. Nasini Workshop: Past, Present and Future of Inorganic Chemistry in Italy: a Path Defined by the Winners of The Nasini Prize, CNR, Aula Marconi, Rome, Italy, February 2019 (IL)
- 97. XXXVII Biannual Conference of the Spanish Royal Society of Chemistry (Reunión Bienal RSEQ), San Sebastiàn, **Spain**, May 2019 (KNL)
- 98. 5th EUCHEMS Inorganic Chemistry Conference, EICC-5; Moscow, Russian Federation, June 2019 (PL)
- 99. XXI Mendeleev Congress on General and Applied Chemistry, Saint Petersburg, Russian Federation, September 2019 (KNL)
- 100. XVIII Convegno Nazionale di Storia e Fondamenti della Chimica, Rome, Italy, October 2019, (IL)
- 101. Israel-Italy 2D Materials Workshop, Bar-Ilan's Institute of Nanotechnology and Advanced Materials (BINA), Bar Ilan University, Tel Aviv, Israel, November 2019 (KNL)

Plenary, Keynote and Session Lecturer (declined invitations):

- 1. 3rd Symposium Latinoamericano de Química de Coordinación y Organometálica (SiLQCOM-2011), La Serena, **Chile**, July 2011 (SL)
- 2. 5th IDECAT/ERIC-JCAT Conference on Catalysis, Bertinoro (FC), Italy, September 2011 (SL)
- 3. CSC2013 Conference of the Canadian Society for Chemistry, Quebéc City, Canada, May 2013 (SL)
- 4th Symposium Latinoamericano de Química de Coordinación y Organometálica (SiLQCOM-2013), Huatulco, Mexico, October 2013 (SL)
- 21st International Conference on Phosphorus Chemistry (ICPC-21), Kazan, Russian Federation, June 2016 (KNL)
- 6. "Frontiers on Organometallic Chemistry 2016" (FOMC 2016), Thiruvananthapuram, Kerala, India, December 2016 (KNL)
- 7. International Symposium on Green Catalysis, Rennes, France, March 2017 (KNL)
- 8. Frontier Forum on Nanoscience 2017, Dubrovnik, Croatia, May 2017 (SL)
- 9. Korea Italy workshop "Membrane Technology for Climate Change", Daejeon, South Korea, June 2017 (SL)
- XVII International Chugaev Conference on Coordination Chemistry, Nizhny Novgorod, Russian Federation, October 2017 (PL)
- 11. Ibero American Chemistry Congress and XXIX Peruvian Chemistry Congress, Lima, Peru, October 2018 (PL)
- 12. Cluster of International Conferences: Topical Problems of Modern Chemistry, CHEMSHIP-2019, Nizhny Novgorod, Russian Federation, September, 2019 (PL)

Lecturer (oral presentations):

- 1. XVIth Congresso Nazionale di Chimica Inorganica, Ferrara, Italy, 1983
- 2. XIth International Conference on Phosphorus Chemistry, Tallinn, Estonia, USSR, 1989
- 3. IXth FECHEM Meeting on Organometallic Chemistry, Heidelberg, Germany, 1991
- 4. XVth International Conference on Organometallic Chemistry, Warsaw, **Poland**, 1992
- 5. I Congresso del Gruppo Interdivisionale di Chimica Organometallica della Società Chimica Italiana, Camerino, Italy, 1992
- 6. IIIrd Eurasia Conference on Chemical Sciences, Bangkok, Thailand, 1992
- 7. IXth International Symposium on Homogeneous Catalysis, Jerusalem, Israel, 1994
- 8. IInd Meeting on Selective Processes and Catalysis, Athens, Greece, 1995
- 9. III Congresso del Gruppo Interdivisionale di Chimica Organometallica della Società Chimica Italiana, Siena, Italy, 1996
- 10. XXV Congresso della Divisione di Chimica Inorganica della Società Chimica Italiana, Alessandria, Italy, 1997
- 11. Ist Meeting on "New 'Chlorine Free' Technology of Organophosphorus Compounds Based on Catalytic Reactions of Elemental Phosphorus", Florence, Italy, 1997
- 12. IInd Meeting on "New 'Chlorine Free' Technology of Organophosphorus Compounds Based on Catalytic Reactions of Elemental Phosphorus", Almaty, **Kazakhstan**, 1999
- 13. XXXIVth International Conference on Coordination Chemistry, Edinburgh, UK, 2000
- 14. VIth FIGIPS Meeting in Inorganic Chemistry, Barcelona, Spain, 2001
- 15. XXth International Conference on Organometallic Chemistry, Corfu, Greece, 2002
- 16. Kick-off Meeting "HYDROCHEM RTN project", Milan, Italy, 2002
- 17. "Andalusia meets Europe", COST WG-D17-003 meeting, Almería, Spain, 2003
- 18. XXXII Congresso della Divisione di Chimica Inorganica della Società Chimica Italiana, Roma, Italy, 2004

- 19. Ist year Meeting "AQUACHEM MC-RTN project", Lisbon, Portugal, 2005
- 20. Green Chemistry: a Solution for the World joint to "Andalusia Meets Europe II", Almeria, Spain, 2005
- 21. COST WG-D17-003 final meeting, Vienna, Austria, 2006
- 22. 234th American Chemical Society National Meeting, Boston, MA, USA, 2007
- 23. Zing Conference "Organometallics at the centre", Cancun, Mexico, 2008
- 24. XL International Conference on Coordination Chemistry, Valencia, Spain, 2012
- 25. Kick-off meeting of the ITN project RFP7-PEOPLE-2012-ITN 317404 "A European Training Network for Sustainable Phosphorus Chemistry (SUSPHOS)", Regensburg, Germany, March 2013
- XLII Congresso della Divisione di Chimica Inorganica della Società Chimica Italiana, Rende, Cosenza, Italy, 2014
- 27. 27th International Conference on Organometallic Chemistry (ICOMC 2016), Melbourne, Australia, July 2016
- 28. XLIV Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Padua, **Italy**, 2016

Member of International Scientific Committees and Boards:

- 1. *Chairman*, *XLIV International Conference on Coordination Chemistry (ICCC-44)*, Rimini, **Italy**, July 2020; postponed to August 2022 (planned)
- 2. Member of the *International Advisory Board* of the *XLIV International Conference on Coordination Chemistry (ICCC-44)*, Rimini, **Italy**, July 2020; postponed to August 2022 (planned)
- 3. Member of the *International Scientific Committee* (ISC) of the *CHEM2DMAT conference*, Bologna, *Italy*, August/September 2021.
- 4. Member of the *Advisory Board* of the *International School of Chemistry: Chemistry for Everyday Life* (ISC-2020), Camerino (MC), **Italy**, September 2020; web edition.
- 5. Chair of the Organizing and Scientific Committee of the Avogadro Colloquia 2019 "Elements of the Periodic Table for Energy", Rome, Italy, December 2019
- Chairman of the International Conference on Phosphorus, Boron and Silicon (PBSi-2019), Rome, Italy, December 2019
- 7. Member of the *International Advisory Board*, 12th *International School on Organometallic Chemistry*, Camerino (MC), **Italy**, September 2019
- 8. Member of the *Scientific Committee* of the symposium "2D semiconductors: applications and perspectives" at the European Materials Research Society (E-MRS) 2019 Spring Meeting, Nice, **France**, May 2019
- 9. Member of the *Scientific Committee* of the Workshop "Advanced Inorganic Materials Green and Unconventional Synthesis Approaches and Functional Assessment" (AIM 2018), Padua, **Italy**, September 2018
- 10. Member of the *International Advisory Board* of the *XLIII International Conference on Coordination Chemistry (ICCC-43)*, Sendai, **Japan**, July 2018
- 11. Chairman, XXVIII International Conference on Organometallic Chemistry (ICOMC-28), Florence, Italy, July 2018
- 12. Member of the *International Advisory Board* of the *XXVIII International Conference on Organometallic Chemistry (ICOMC-28)*, Florence, **Italy**, July 2018
- 13. Member of the *International Advisory Board* of the 6th International Conference "Novel Functional Carbon Nanomaterials" of the 8th Forum on New Materials (CIMTEC 2018), Perugia, **Italy**, June 2018
- 14. Member of the *International Advisory Board*, 11th International School on Organometallic Chemistry, San Benedetto del Tronto (AP), **Italy**, September 2017
- 15. Member of the *National Scientific Committee*, EUROPACAT 2017, Florence, Italy, August/September 2017
- 16. Member of the *International Advisory Board* of the *Colloquium Spectroscopicum Internationale (CSI-XL)*, Pisa, **Italy**, June 2017
- 17. **Co-Chairman** of the 2nd International Forum on Ceramics and Ceramic-related Materials: Ceramics for Energy CEN '17, Museo Internazionale delle Ceramiche, Faenza (RA), **Italy**, June 2017
- 18. Member of the *International Advisory Board* of the *XLII International Conference on Coordination Chemistry (ICCC-42)*, Brest, **France**, July 2016
- 19. Member of the *International Advisory Board*, 10th International School on Organometallic Chemistry, Camerino, **Italy**, September 2015

- Co-Chairman of the Workshop Ceramics for Energy, Museo Internazionale delle Ceramiche, Faenza (RA), Italy, May 2015
- 21. Chairman of the First International Conference on Sustainable Phosphorus Chemistry (ICSPC-1), Florence, Italy, December 2014
- 22. Member of the *Organizing Committee*, 10th Spanish-Italian Symposium on Organic Chemistry (SISOC-X), Florence, **Italy**, July 2014
- 23. Member of the *International Advisory Board*, Symposium FE "Advances in Photocatalytic Materials for Energy and Environmental Sustainability" of the Forum on New Materials, Montecatini, **Italy**, June 2014
- 24. Member of the *Scientific Committee*, 9th International School on Organometallic Chemistry, Camerino, **Italy**, August 2013
- 25. Member of the **Standing Committee** of the Latin American Symposium of Coordination and Organometallic Chemistry SiLQCOM (Comitè Permanente del Simposio Latinoamericano de Química de Coordinación y Organometálica); (Italian representative) since October 2011.
- 26. Member elected (Italian representative) of the *International Advisory Board* (*IAB*) of the *International Homogeneous Catalysis Symposia ISHC*, since June 1st, 2011 to 2018.
- 27. Member of the *Scientific Committee*, 8th *International School on Organometallic Chemistry*, Camerino, **Italy**, August 2011
- 28. Member of the *Comité Cientifico International (Scientific International Committee*) of the 3^{er} Symposium Latinoamericano de Química de Coordinación y Organometálica (SiLQCOM-2011), La Serena, Chile, July 2011
- 29. Member of the *Scientific Committee*, International Conference on Sciences and Technologies of the Environment for a Sustainable Development, Hammamet, **Tunisia**, October 2011
- 30. Member of the *Scientific Committee*, CNR/CNRS Workshop" Homogeneous Catalysis for Sustainable Development", Rome, Italy, June 2010
- 31. Member of the *Scientific Committee*, IInd International Conference on Hydrogen Energy (ICHE10), Hammamet, **Tunisia**, May 2010
- 32. Member of the *Scientific Committee*, $4^{\grave{e}me}$ Édition du Congrès International de la Physique des Interactions Rayonnement Matière (PIRM IV), Dakhla, Morocco, April 2010
- 33. Member of the *Scientific Committee*, 7th *International School on Organometallic Chemistry*, Camerino, Italy, September 2009
- 34. Member of the *International Advisory Board*, 7th International School on Organometallic Chemistry, Camerino, Italy, September 2009
- 35. Member of the *International Scientific Committee*, 10th FIGIPAS Meeting in Inorganic Chemistry, Palermo, Italy, July 2009
- 36. Member of the *Scientific Committee*, *International Workshop on Distributed Energy Systems*. The role of Chemical Sciences and Technology, Milano, Italy, April 2009
- 37. Chairman of the Kick off meeting of the COST Action CM0802 PhoSciNet Working Groups, Florence, Italy, March 2009
- 38. Chairman, 6th European Workshop on Phosphorus Chemistry (EWPC-6), Florence, Italy, March 2009
- 39. Member of the *Management Committee* (CM0802 IT) as Italian Representative in the *COST Action CM0802* "European Phosphorus Sciences Network (PhoSciNet)" (2008 2012)
- 40. Member of the *Core Group* of the *COST Action CM0802* "European Phosphorus Sciences Network (PhoSciNet)" (2008 2012)
- 41. Co-Chairman, 16th International Symposium on Homogeneous Catalysis (ISHC-16), Florence, Italy, July 2008
- 42. Member of the *Organizing Committee* of the workshop "Catalysis in Aqueous Media", Toulouse, France, November, 2007
- 43. Member of the *International Advisory Board*, 6th *International School on Organometallic Chemistry*, Camerino, Italy, September 2007
- 44. Member of the *International Scientific Committee*, 9th FIGIPAS Meeting in Inorganic Chemistry, Vienna, Austria, July 2007
- 45. Member of the *Organizing Committee*, *IDECAT Conference Series 'Catalysis for Sustainable Energy Production'*, Sesto Fiorentino (Florence), Italy, November 2006
- 46. Member of the *Scientific Committee* of the Workshop *Experiment & Theory in Transition Metal Chemistry: A Meeting Point*, Bellaterra, Barcelona, Spain, September 2006
- 47. Member of the *International Advisory Committee*, 5th International Symposium on Inorganic Phosphate Materials '05. ISIPM 2005, Kasugai, Aichi, Japan, September 2005

- 48. Member of the *International Scientific Committee*, 8th FIGIPAS Meeting in Inorganic Chemistry, Athens, Greece, July 2005
- 49. Member of the *International Advisory Board*, XIVth International Conference on Chemistry of Phosphorus Compounds, Arbuzov Institute/RAS, Kazan, Russia, June 2005
- 50. Member of the *Organizing Committee* of the 12th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis, Fiesole (FI), Italy, July 2005.
- 51. Member of the *International Advisory Board*, XXth International Conference on Organometallic Chemistry, Corfu, Greece, July 2002.
- 52. Member of the International Advisory Board, Eurasia Conferences on Chemical Sciences, (since 2002).
- 53. *Co-chairman* with Rinaldo Poli, "*Recent Advances in Transition Metal Hydride Chemistry*" (Eurohydrides 2000, Dijon, France, September 2000, 110 participants)
- 54. *Scientific Secretary*, *XXXIII International Conference on Coordination Compounds* (33rd ICCC, Florence, August 1998, Chairman Ivano. Bertini, 1650 participants).
- 55. **Secretary**, International Symposium on Molecular Reaction Mechanisms Involving Transition Metals (Florence, October 1994, 250 participants).
- 56. MP is member of the **Planning Committee** of the *International Conference on Coordination Compounds* (1996 2000 and 2012 ...).
- Member of the Local Organizing Committee (Responsible for the one-day-symposium "Hydrogen Economy and Catalysis"), 12th International Symposium on the Relations between Homogeneous and Heterogeneous Catalysis) (ISHHC-12, Florence, July 2005)
- Member of the Local Organizing Committee (Jubilee Celebration Committee), 10th International Conference on Bioinorganic Chemistry (ICBIC-10, Florence, August 2001)
- Member of the Local Organizing Committee, 1st International Conference on Bioinorganic Chemistry (ICBIC-1, Florence, June 1983)

Member of National Scientific Committees and Boards:

- 1. **Chairman** of the **Scientific and Organizing Committee**, 4th Avogadro Colloquia 2019 "Elements of the Periodic Table for Energy", Rome, Italy, December 2019
- 2. *Chairman* of the *Organizing Committee* of the *National School of Bioinorganic Chemistry* directed to PhD students, Rome, Italy, February 2019
- 3. Member of the *Scientific Committee* of the *Academy for Molecular Mechanisms 2019*, Bologna, Italy, January 2019
- 4. *Chairperson* (together with Corrado Spinella) of the Conference "*Materials.it*" jointly organized by the DSCTM CNR and DSFTM CNR, Bologna, October 2018.
- 5. Member of the *Steering Committee* of the conference "*Nanoinnovation 2018*", Rome, Italy, September 2018
- 6. Member of the *Organizing Committee* of the *COGICO-2018*, 13th National Conference of the Interdivisional Group of Organometallic Chemistry, Florence, Italy, July 2018
- 7. Member of the *Scientific Committee* of the 1st Italian School on Renewable Energies, Florence, Italy, February 2018
- 8. Member of the *Steering Committee* of the conference "*Nanoinnovation 2017*", Rome, Italy, September 2017
- 9. *Chairperson* of the workshop "*Phosphorene and 2D-Companions*", Rome, Italy, May 8th 2017
- 10. Chairperson of the workshop "Phosforene day", Florence, Italy, July 17th 2015
- 11. Member of the *Scientific Committee* of the *XLII National Conference on Inorganic Chemistry*, Rende, Cosenza, Italy, September 2014
- 12. Member of the Scientific Committee of the NanotechItaly 2013, Venice, Italy, November 2013
- 13. Member of the *Scientific Committee* of the *XLI National Conference on Inorganic Chemistry*, Parma, Italy, September 2013
- 14. Member of the *Scientific Committee* of the "XXXII Congresso Interregionale delle Sezioni Toscana, Umbria, Marche ed Abruzzo" of the Italian Chemical Society, TUMA-2013, Florence, Italy, July 2013
- 15. Member of the *Scientific Committee* of the meeting "Arte e scienza: estetica e verità della materia", 6° Ed. "Inquietudini nella modernità", Florence, Italy, December 2012

- 16. Member of the *Scientific Committee* of the XL National Conference on Inorganic Chemistry, Sestri Levante, Italy, September 2012
- 17. Member of the *Scientific Committee* of the COGICO-2012, 10th National Conference of the Interdivisional Group of Organometallic Chemistry, Padua, Italy, June 2012
- 18. Member of the *Scientific Committee* of the XXIV National Conference of the Italian Chemical Society (Lecce, Italy) September 2011
- 19. Member of the *Scientific Committee* of the 2nd National School of Bioinorganic Chemistry, Siena, Italy, July 2011
- 20. *Chairman* of the *workshop "Idrogeno: quale futuro?"* on the occasion of the *ENERGETHICA Congress* 2011", Turin, Italy, April 2011
- 21. Member of the *Scientific Committee* of the XXXVIII National Conference on Inorganic Chemistry, Trieste, Italy, September 2010
- 22. Chairman of COGICO-9, 9th National Conference of the Interdivisional Group of Organometallic Chemistry, Florence, Italy, June 2010
- 23. Member of the *Scientific Committee* of the *National School of Organometallic Chemistry for PhD students*, Bertinoro, Italy, May 2010
- 24. Member of the *Organizing Committee* of the *workshop "Idrogeno: L'esperienza Fiorentina di HYDROLAB incontra la rete nazionale di ENERGETHICA"*, Sesto Fiorentino, Italy, November 2009
- 25. Member of the *Scientific Committee* (Area Inorganic Chemistry) of the *XXIII National Conference of the Italian Chemical Society*, Sorrento, Italy, July 2009
- 26. Member of the *Scientific Committee* of the XXXVII National Conference on Inorganic Chemistry, Sorrento, Italy, July 2009
- 27. Member of the *Scientific Committee* of the XXXVI National Conference on Inorganic Chemistry, Lecce, Italy, September 2008
- 28. Member of the *Scientific Committee* of the XI National School on Bioinorganic Chemistry for PhD Students, Napoli, Italy, September 2008
- 29. Member of the *Scientific Committee* of the X National School on Organometallic Chemistry for PhD Students, Camerino, Italy, September 2007
- 30. Member of the *Scientific Committee* of the XXXV National Conference on Inorganic Chemistry, Milan, Italy, September 2007
- 31. Member of the *Scientific Committee* of the IX National School on Chemistry of Inorganic Materials for *PhD Students*, Arcavacata, Rende, Cosenza, Italy, November 2006
- 32. Member of the *Panel of Delegates (Inorganic Chemistry)* of the *XXII National Conference of the Italian Chemical Society*, Florence, Italy, September 2006
- 33. Member of the *Scientific Committee* of the XXXIV National Conference on Inorganic Chemistry, Florence, Italy, September 2006
- 34. Member of the *Scientific Committee* of the X National School on Bioinorganic Chemistry for PhD Students, Catania, Italy, September 2005
- 35. Member of the *Scientific Committee* of the XXXIII National Conference on Inorganic Chemistry, Siena, Italy, July 2005
- 36. Member of the *Scientific Committee* of the XXXII National Conference on Inorganic Chemistry, Rome, Italy, September 2004
- 37. Member of the *Scientific Committee* of the IX National School on Organometallic Chemistry for PhD Students, Venice, Italy, July 2004

MP has served as Chairman of Scientific Sessions at the following international conferences and meetings:

- 1. European Japanese symposium on selective processes and catalysis involving small molecules (Rennes, France, 1994)
- 2. 34th International conference on coordination chemistry (Edinburgh, UK, 2000)
- 3. EC High-level scientific conferences: EURO-Hydrides 2000 (Dijon, France, 2000)
- 4. Kick-off meeting of the COST Action D17 WG003/00 (Pisa, Italy, 2001)
- 5. IInd Singapore International Chemical Conference (Singapore, 2001)
- 6. Mid-Term and workshop Meeting of the COST Action D17 (Warwick, UK, 2002)
- 7. XXth International Conference on Organometallic Chemistry (Corfu, Greece, 2002)
- 8. Kick-off meeting of the NATO Collaborative Linkage Grant on Physical and Engineering Science and Technology; PST.CLG.978521 (Florence, Italy, 2002)
- 9. "Andalusia meets Europe", COST WG-D17-003 meeting (Almería, Spain, 2003)

- 10. VIIIth Eurasia Conference on Chemical Sciences (Hanoi, Vietnam, 2003)
- 11. Kick-off meeting of the AQUACHEM MRTN-CT-2003-503864 Network (Florence, Italy, 2004)
- 12. "Modern Trends in Organoelement and Polymer Chemistry" (Moscow, Russian Federation, 2004)
- 13. Ist year meeting of the AQUACHEM MRTN-CT-2003-503864 Network (Lisbon, Portugal, 2005) 5th International School on Molecular Catalysis, ISMC5 (Poznan, Poland, 2005)
- 14. 5th International School on Organometallic Chemistry, ISOC5 (Camerino, Italy, 2005)
- 15. NATO Advanced Study Institute: New methodologies and techniques in organic chemistry Sustainable development in a secure environment (Pontignano, Siena, Italy, 2005)
- 16. "Green Chemistry: a Solution for the World" joint to "Andalusia Meets Europe II" (Almeria, Spain, 2005)
- 17. Experiment & Theory in Transition Metal Chemistry: A Meeting Point, (Bellaterra, Barcelona, Spain, 2006)
- 18. IDECAT Conference Series 'Catalysis for Sustainable Energy Production', (Sesto Fiorentino, Italy, 2006)
- 19. IXth FIGIPAS Meeting in Inorganic Chemistry, (Vienna, Austria, 2007)
- 20. Final Meeting of the AQUACHEM MRTN-CT-2003-503864 Network (Toulouse, France, 2007)
- 21. ISHC-XVI, XVI International Symposium on Homogeneous Catalysis, (Florence, Italy, 2008)
- 22. 6th European Workshop on Phosphorus Chemistry, EWPC-6, (Florence, Italy, 2009)
- 23. Kick off meeting of the Working Groups of the COST Action CM0802 PhoSciNet, (Florence, Italy, 2009)
- 24. 10th FIGIPAS Meeting in Inorganic Chemistry (Palermo, Italy, July 2009)
- 25. 7th International School on Organometallic Chemistry, Camerino, Italy, September 2009
- 26. CNR/CNRS Workshop" Homogeneous Catalysis for Sustainable Development" (Rome, Italy, 2010)
- 27. Third year meeting of the GDRI "Catalyse Homogène pour le Développement Durable (CH2D)", (Rome, Italy, 2010)
- 28. Scientific day dedicated to Professor Pierre H. Dixneuf "From Organometallics to Catalysis" (Rennes, France, November 19, 2010)
- 29. ICSU Day One-day symposium before the General Assembly of the International Council for Science (ICSU): "From Elementary Chemical Processes to Complex Biological Structures for the Benefit of Life and Human Health", (Aula Magna, Università degli Studi di Firenze, Firenze, Italy, September 23, 2011)
- 30. 4th Working Group Meeting COST Action CM0802 European PhosphorusSciences Network (Phoscinet), (Rennes, France, March 21, 2012)
- 31. 25th International Conference on Organometallic Chemistry (ICOMC 2012), (Lisbon, Portugal, September 4, 2012)
- 32. 44th IUPAC World Chemistry Congress (Istanbul, Turkey, August 12, 2013)
- 33. 7th Annual Meeting of the "Groupe de Recherche International" (GDRI), Homogeneous Catalysis for Sustainable Development (Paris, France, June 16, 2014)
- 34. First International Conference on Sustainable Phosphorus Chemistry (ICSPC-1) (Florence, Italy, December 4, 2014)
- 35. International Workshop Ceramics for Energy (Faenza (FC), Italy, May 14, 2015)
- 36. 5th International Youth Conference on Energy 2015, IYCE'15 (Pisa, Italy, May 28, 2015)
- 37. Razuvaev Lectures VI. Organometallic and Coordination Chemistry: Achievements and Challenges (Nizhni Novgorod, Russian Federation, September 20, 2015)
- 38. XLII International Conference on Coordination Chemistry ICCC-42 (Brest, France, July 06, 2016)
- 39. 27th International Conference on Organometallic Chemistry ICOMC 2016 (Melbourne, Australia, July 2016)
- 40. 2nd International Forum on Ceramics and Ceramic-related Materials: Ceramics for Energy CEN '17, (Faenza (FC), **Italy**, June 07, 2017)
- 41. International Conference on Phosphorus, Boron and Silicon (PBSi-2017), Paris, France, July 2017 (PL)
- 42. 28th International Conference on Organometallic Chemistry ICOMC 2018 (Florence, **Italy**, July 2018, Chairman of the opening plenary lecture delivered by Matthias Beller)
- 43. XLIII International Conference on Coordination Chemistry (ICCC-43), Sendai, Japan, July 2018
- 44. XVth Eurasia Conference on Chemical Sciences, Rome, Italy, 2018
- 45. 22nd International Conference on Organic Syntheses (22-ICOS), Florence, **Italy**, September 2018, (Chairman of the plenary lecture delivered by Erik M. Carreira)
- 46. Accademia dei Lincei Conference on "Solar driven chemistry: towards new catalytic solutions for a sustainable world", Accademia dei Lincei, Rome, Italy, October 19, 2018 (Chairman of the plenary lectures delivered by Gary Brudvig and Marcella Bonchio)
- 47. International Conference on Phosphorus, Boron and Silicon (PBSi-2018), Barcelona, Spain, December 2018.
- 48. 2019 Spring Meeting of the European Materials Research Society (E-MRS), Nice, France, May 2019 (Chairman at the symposium: 2D semiconductors: applications and perspectives)

- 49. International Conference on Microplastic Pollution on the Mediterranean Sea (μ-MED), Capri (NA), Italy, September 2019
- 50. International Conference on Phosphorus, Boron and Silicon (PBSi-2019), Rome, **Italy**, December 2019 (Chairman of the plenary lectures delivered by Hansjörg Grutzmacher and Sylviane Sabo-Etienne)
- 51. Avogadro Colloquia 2019 "Elements of the Periodic Table for Energy", Italy, December 2019 (Chairman of the opening session "Elements of the Periodic Table in Energy Production").
- 52. International School of Chemistry: Chemistry for Everyday Life (ISC-2020), Camerino (MC), Italy, September 2020, web edition, (Chairman of the opening session and lecture by the Nobel laureate Jean-Marie Lehn).

MP has served as Chairman of Scientific Sessions at the following national conferences and meetings:

- 1. XXI Congresso della Società Chimica Italiana (Torino, Italy, 2003)
- 2. L'Idrogeno come vettore energetico: stato della ricerca e progetto Firenze Hydrolab (XIV Settimana della cultura scientifica in Toscana) (Florence, Italy, 2004)
- 3. XXXII National Conference on Inorganic Chemistry, (Rome, Italy, 2004)
- 4. L'idrogeno come vettore energetico: stato della ricerca e progetto Firenze Hydrolab (XV Settimana della cultura scientifica in Toscana) (Scandicci, Italy, 2005)
- 5. XXXIII National Conference on Inorganic Chemistry, (Siena, Italy, 2005)
- 6. XII International Symposium on relations between homogeneous and heterogeneous catalysis (Fiesole, Italy, 2005)
- 7. L'idrogeno come vettore energetico: stato della ricerca e progetto Firenze Hydrolab (XVI Settimana della cultura scientifica in Toscana) (Florence, Italy, 2006)
- 8. XXII National Conference of the Italian Chemical Society (Florence, Italy, 2006)
- 9. XXXV National Conference of Inorganic Chemistry, (Milan, Italy, 2007)
- 10. COGICO-2008, VIII Congresso del Gruppo Interdivisionale di Chimica Organometallica, (Perugia, Italy, 2008)
- 11. XXXVI National Conference of Inorganic Chemistry, (Lecce, Italy, 2008) (Chair of the Sacconi Medal Lecture 2008 delivered by Robin N. Perutz)
- 12. XXIII National Conference of the Italian Chemical Society (Sorrento, Italy, July, 2009) (Chair of the Annual General Assembly of the Italian Chemical Society)
- 13. XXXVII National Conference of Inorganic Chemistry (Sorrento, Italy, July, 2009) (Chairman of the Lecture awarding the Nasini Medal 2009 to Alberto Credi)
- 14. "Giornate Scientifiche" of the CNR Department of Molecular Design, Project PM.P03, (Montelibretti, RM, Italy, November, 2009)
- 15. COGICO-9, IX Congresso del Gruppo Interdivisionale di Chimica Organometallica, (Florence, Italy, June, 2010) (Chairman of the "Senior GICO Award Lecturship" delivered by Rinaldo Poli)
- 16. XXXVIII National Conference of Inorganic Chemistry (Trieste, Italy, September, 2010) (Chairman of the Public Lecture delivered by Vincenzo Balzani)
- 17. Joint Lectureship Società Chimica Italiana Société Chimique de France (SCI SCF) (Firenze, Italy, November 2010) (Chairman of the lecture delivered by Mir Wais Hosseini)
- 18. Workshop "Idrogeno: quale futuro?", the ENERGETHICA Congress 2011" (Turin, Italy) April 2011
- 19. Workshop "Innovazione e ricerca per risolvere il problema energia: I risultati del progetto FIRENZE-HYDROLAB (2004 2009)" (Accademia dei Georgofili, Firenze, Italy, April 21, 2011)
- 20. ICCOM Day 2011; first scientific meeting of the ICCOM CNR Researchers, (Area Ricerca CNR, Sesto Fiorentino, Italy, May 10, 2011)
- 21. XXXIX National Conference of Inorganic Chemistry (Lecce, Italy, September, 2011) (Chairman of the "Paolo Chini Memorial Lecture" 2009 delivered by Claudio Bianchini)
- 22. COGICO-10, X Congresso del Gruppo Interdivisionale di Chimica Organometallica, (Padua, Italy, June 5, 2012) (Chairman of the Opening plenary lecture delivered by Steve Nolan)
- 23. Human health: the role of biological inorganic chemistry (Sesto Fiorentino, Italy, June 12, 2012)
- 24. La sfida della sostenibilità e delle nuove energie in Toscana: la proposta del CNR all'industria della nostra regione (Area della Ricerca CNR, Sesto Fiorentino, Italy, June 15, 2012)
- 25. "XXXII Congresso Interregionale delle Sezioni Toscana, Umbria Marche ed Abruzzo" of the Italian Chemical Society, TUMA-2013 (Florence, Italy) July 2013
- 26. XLI National Conference on Inorganic Chemistry, (Parma, Italy) September 2013 (Chairman of the Sacconi Medal Lecture 2013 delivered by Pierre Braunstein)

- 27. "Chemistry & Materials for Life", Celebrative Conference of the 90th year of CNR, Rome, November 2013 (Chairman of the Opening Plenary Lecture delivered by David Cole-Hamilton)
- 28. ENEL CNR Workshop: "Energia e Innovazione: Una sfida per il Pubblico e il Privato", Rome, May 2014
- 29. XXV National Conference of the Italian Chemical Society, (Rende, Cosenza, Italy) September 2014 (Chairman of the Sacconi Medal Lecture 2014 delivered by Roland Lill)
- 30. XLII National Conference on Inorganic Chemistry, (Rende, Cosenza, Italy) September 2014 (Chairman of the ENERCHEM Session)
- 31. Sacconi Memorial Lecture 2014, Firenze, Italy October 2014, (Chairman of the lecture delivered by Luisa De Cola)
- 32. Knowledge Integration for Advanced & Sustainable Systems, DSCTM CNR Annual Conference, Rome, Italy, November 10th 2014
- 33. Sacconi Spring Seminar 2015, Firenze, Italy March 2015, (Chairman of the lecture delivered by Nicola Armaroli)
- 34. CNR workshop "Fosforene day", Firenze, Italy, July 17th 2015
- 35. XLIII National Conference of Inorganic Chemistry, (Camerino, Macerata, Italy) September 2015 (Chairman of the Sacconi Medal Lecture 2015 delivered by Tobin Marks)
- 36. Giornata DSCTM 2015, "Sharing knowledge and expertise for a better society", Cetraro (CS), Italy, October 2015.
- 37. ENERCHEM-1, the Ist National Meeting of the Interdivisional Group ENERCHEM (Florence, Italy) February 2016
- 38. Sacconi Memorial Lecture 2015/2016, Firenze, Italy February 2016, (Chairman of the lecture delivered by Vincent Pecoraro)
- 39. Sacconi Spring Seminar 2016, Firenze, Italy May 2016, (Chairman of the lectures delivered by Hansjoerg Gruetzmacher and Matthias Driess)
- 40. COGICO-2016, 12th National Conference of the Interdivisional Group of Organometallic Chemistry, Genoa, Italy, June 2016 (Chairman of the Bonati Prize 2016, Plenary lecture delivered by Gabriele Manca)
- 41. XLIV National Conference of Inorganic Chemistry, Padova, Italy, September 2016 (Chairman of the Sacconi Medal Lecture 2016 delivered by Zijian Guo)
- 42. Sacconi Spring Seminar 2017, Firenze, Italy April 2017, (Chairman of the lecture delivered by Istvan Horvath)
- 43. Workshop "Phosphorene and 2D-Companions", Rome, Italy, May 8th 2017 (Chairman of the Plenary lecture delivered by Vincenzo Palermo)
- 44. Workshop "Le nuove frontiere dei Materiali Ceramici", Faenza (FC), July 7th 2017
- 45. XLV National Conference of Inorganic Chemistry, Paestum (SA), Italy, September 2017 (Chairman of the Sacconi Medal Lecture 2017 delivered by Guy Bertrand)
- 46. XLVI National Conference of Inorganic Chemistry, Bologna, Italy, September 2018 (Chairman of the Sacconi Medal Lecture 2018 delivered by Clare Gray)
- 47. DSCTM CNR Conference 2018, Assisi (PG), Italy, September 2018 (Chairman of the Keynote lecture delivered by Luigi Nicolais)
- 48. DSCTM CNR Conference 2019, Bressanone/Brixen (BZ), Italy, October 2019 (Chairman of the Post-dinner speech delivered by Chryssostomos Chatgilialoglu)

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Member of the Committee for awarding the best oral communication and the best Chairperson at the following Conference:

• Xth European Workshop on Phosphorus Chemistry (EWPC-10), Regensburg, Germany, 2013

Member of the Committee for awarding the best poster contribution at the following Conferences:

- XIXth EuCheMS Conference on Organometallic Chemistry (XIX EuCOMC), Toulouse, France, 2011
- IInd Symposium Latinoamericano de Química de Coordinación y Organometálica (SiLQCOM), Maracaibo, Venezuela, 2009
- 10th FIGIPAS Meeting in Inorganic Chemistry (President of the Commission, Palermo, Italy, July 2009);
- ISHC-XVI, XVI International Symposium on Homogeneous Catalysis, (Florence, Italy, 2008);

Member of the Committee for awarding the best oral presentation at the following Conferences:

• Conference-School for Young Researchers "Challenges and Achievements of Modern Organometallic and Coordination Chemistry" Nizhni Novgorod, Russian Federation, September 2015

Ph. D. Thesis Supervisor:

- Dr. Leonardo Giusti, Industrial Doctorate sponsored by ItalMatch SpA and CNR, University of Siena (2019 ...)
- Dr Matteo Vanni, University of Siena, Italy (2018 ...)
- Dr Salvatore Interlandi, University of Siena, Italy (2015 2016) abandoned after one year
- Dr Fuencisla Delgado Calvo, University of Florence, Italy (2013 2015)
- Dr Francesco Barzagli, University of Florence, Italy (2013 2015)
- Dr Vincenzo Mirabello, University of Florence, Italy (2009 2012)
- Dr Barbara Di Credico, University of Florence, Italy (2007 2010)

Ph. D. Thesis Advisor:

- Dr. Giulio Bresciani, University of Pisa, Italy (2020)
- Dr. Raquel Puerta Oteo, University of Zaragoza, Spain (2017) (President of the PhD Jury)
- Dr Franco Scalambra, University of Almeria, Spain (2016) (President of the PhD Jury)
- Dr Maria Talavera Nevado, University of Vigo, Spain (2014) (President of the PhD Jury)
- Dr Hanna Dib, Laboratoire de Chimie de Coordination du CNRS, Université Paul Sabatier, Toulouse, France (2013)
- Dr Wejia Gan, Ecole Politechnic Federal de Lausanne, EPFL Lausanne, Switzerland (2012)
- Dr Mar Rodríguez Rocha, University of Vigo, Spain (2011)
- Dr Beatriz Gonzalez del Castillo, University of La Laguna, Tenerife, Spain (2010)
- Dr Christiane A. Rotter, Ludwig Maximilians Universität, München, Germany (2009)
- Dr Adrian Chaplin, Ecole Politechnic Federal de Lausanne, EPFL Lausanne, Switzerland (2007)
- Dr Maria del Carmen Rodriguez Martinez, University of Vigo, Spain (2006)
- Dr Sonia Mañas Carpio, University of Almería, Spain (2003)
- Dr Vanessa Landaeta Perera, Instituto Venezolano de Investigaciones Cientificas, Caracas, Venezuela (2003) (deputy member)

Ph. D. Thesis External Advisor:

- Dr Döherte Mellmann, Leibniz-Institut für Katalyse e.V. an der Universität Rostock, Germany (2014)
- Dr Ryan James Gilbert-Wilson, The University of New South Wales, Australia (2012)
- Dr Maria Isabel Bartolomé Ramos, University of Zaragoza, Spain (2010)
- Dr José María Muños Molina, University of Huelva, Spain (2010)
- Dr Serin L. Dabb, The University of New South Wales, Sydney, Australia (2008)
- Dr María Dolores Gàlvez López, University of Murcia, Spain (2005)
- Dr Joaquín Andrés López Serrano, University of Murcia, Spain (2003)
- Dr Jelena Tamuliene, ITPA, Vilnius, Lithuania (2000)
- Dr Graham Purches, University of Sydney, Australia (1999)

Thesis Supervisor:

- Mr Matteo Vanni, (Pisa, Italy), Tesi di laurea Magistrale, University of Pisa (2016/2017)
- Mr Cesar Alejandro Urbina, Universidad Simon Bolivar, Caracas, Venezuela (2008)
- Miss Anita Castellucci, University of Ferrara, Italy (2004)
- Miss Chiara Ciardi, University of Florence, Italy (2002)
- Miss Elisabetta Guidoboni, University of Ferrara, Italy (1998)
- Mr Luca Chiti, University of Florence, Italy (1987)
- Mr Giovanni Baldi, University of Florence, Italy (1985)

Fixed -Term Research Assistant (Ricercatore a tempo determinato)

- Dr Gabriele Manca (Firenze, Italy), RTD grant on theoretical modelling of phosphorene reactivity, (2016-2019); 41 months.
- Dr Manuel Serrano Ruiz, (Almeria, Spain), RTD grant on phosphorene chemistry 2016-2019); 41 months.

Post-Doctoral Grant Supervisor:

- Dr Lapo Luconi (Firenze, Italy), research grant on "Chemical hydrogen storage through ammoniaborane (AB): synthesis of ab dehydrogenation catalysts", CNR RFBR (Russian Foundation for Basic Research) agreement (2016 2017), 12 months.
- Dr Stefano Todisco (Bari, Italy), research grant on "Chemical hydrogen storage through ammoniaborane (AB): synthesis of ab dehydrogenation catalysts", CNR RFBR (Russian Foundation for Basic Research) agreement (2015 2016), 12 months.
- Dr Gabriele Manca (Firenze, Italy), research grant on theoretical modelling of phosphorene reactivity, (2015; 6 months)
- Dr Manuel Serrano Ruiz, (Almeria, Spain), postdoctoral research grant on phosphorene chemistry (2014 2016; 24 months)
- Dr Gabriele Manca (Firenze, Italy), FIRENZE HYDROLAB-2: research grant on H-storage materials, (2013 2014; 12 months)
- Dr Rafal Grubba (Gdansk University of Technology, Gdansk, Poland), COST Chemistry Action CM0802 PHOSCINET (2012; 1 month)
- Dr Alexsander Khalsin (INEOS RAS, Moscow), European Community, MARIE CURIE INTERNATIONAL INCOMING FELLOWSHIPS (IIF) project FP7-PEOPLE-IIF-2008-236423 "New modular self-assembled homogeneous catalysts for asymmetric synthesis in water" (MODUCAT) (2010 2012; 24 months)
- Dr Barbara Di Credico (Firenze, Italy), FIRENZE HYDROLAB: research grant on H-storage materials, (2010 2011; 12 months)
- Dr Simone Alidori (ETH, Zürich, Switzerland), COST Chemistry Action CM0802 PHOSCINET (2009; 1 month)
- Dr Cristina Tiozzo (Firenze, Italy), GDRI, "Catalyse Homogène pour le Développement Durable (CH2D)" CNR/CNRS agreement (2009, 6 months)
- Dr Dmitry Yakhvarov (IOPC RAS, Arbuzov Institute of Organic and Physical Chemistry, Kazan, Russia), CNR/RAS bilateral agreement (2008, 1 month)
- Dr Maria Caporali (Firenze, Italy), REGIONE TOSCANA, (2007 2008; 14 months)
- Dr Mikael Erlandsson (Stockholm University, Stockholm, Sweden), European Community, MARIE CURIE RESEARCH TRAINING NETWORK project MRTN-CT-2003-503864, "Transition Metal Chemistry and Catalysis in Aqueous Media" (AQUACHEM) (2007; 5 months)
- Dr Ambroz Almassy (University of Debrecen, Hungary), European Community, MARIE CURIE RESEARCH TRAINING NETWORK project MRTN-CT-2003-503864, "Transition Metal Chemistry and Catalysis in Aqueous Media" (AQUACHEM) (2007; 1 month)
- Dr Dmitry Yakhvarov (IOPC RAS, Arbuzov Institute of Organic and Physical Chemistry, Kazan, Russia), THERMPHOS International, Vlissingen, The Netherlands, (2006; 2 months)
- Dr Mikael Erlandsson (Stockholm University, Stockholm, Sweden), "Stiftelsen Bengt Lundqvists Minne" Foundation, Stockholm, Sweden (2006 2007; 12 months).
- Dr Raluca Malacea (LCC-CNRS, Toulouse, France) European Community, RESEARCH TRAINING NETWORK project HPRN-CT-2002-00176 "New Chemistry and Catalysis with Hydride Compounds" (HYDROCHEM) (2006; 3 months).
- Dr Maria Caporali (Firenze, Italy), THERMPHOS International, Vlissingen, The Netherlands, (2006 2007, 2008 2011; 53 months)
- Dr Sylvain Bosquain (Caen, France), FIRENZE HYDROLAB: research grant on H-storage materials, (2006; 2 months)
- Dr Andrea Rossin (Torino, Italy), FIRENZE HYDROLAB: research grant on H-storage materials, (2005 2009; 48 months)
- Dr Markus Ehses (Saarbrücken, Germany): research grant from the DFG-CNR bilateral collaboration, Deutsche Forschungsgemeinschaft DFG, (DFG no. 418 ITA 111/2/05 Bonn, Germany) "Main Group Element Functionalisation of Phosphorus in the Co-ordination Sphere of Transition Metal Complexes", (2005, 1 month)
- Dr Evgenii Gutsul (INEOS RAS, Moscow, Russia), INTAS YS Call 2004, Brussels, Belgium (2005; 6 months. 2006; 2 months)
- Dr Erwan Le Roux (Lyon, France), European Community, RESEARCH TRAINING NETWORK project HPRN-CT-2002-00176 "New Chemistry and Catalysis with Hydride Compounds" (HYDROCHEM)" (2005 2006; 12 months)
- Dr Dina N. Akbayeva (Almaty, Kazakhstan), THERMPHOS International, Vlissingen, The Netherlands, (2004
 2005; 12 months)

- Dr Vanessa Landaeta Perera (IVIC, Caracas, Venezuela), European Community, MARIE CURIE RESEARCH TRAINING NETWORK project MRTN-CT-2003-503864, "Transition Metal Chemistry and Catalysis in Aqueous Media" (AQUACHEM) (2004 2005; 12 months)
- Dr Sonia Mañas Carpio (Almeria, Spain) "Ministerio de Ciencia y Tecnologia", Madrid, Spain (2004 2005; 12 months)
- Dr Dmitry Yakvharov (IOPC RAS, Arbuzov Institute of Organic and Physical Chemistry, Kazan, Russia), INTAS YS Call 2003, Brussels, Belgium (2004; 5 months. 2005; 3 months)
- Dr Sylvain Bosquain (Caen, France), European Community, RESEARCH TRAINING NETWORK project HPRN-CT-2002-00176 "New Chemistry and Catalysis with Hydride Compounds" (HYDROCHEM)" (2004 2006; 24 months)
- Dr Sandra Gomez Bolaño (Vigo, Spain), Xunta de Galicia, Vigo, Spain (2003 2004; 12 months)
- Dr Dina N. Akbayeva (Almaty, Kazakhstan), CNR-NATO Outreach fellowships 219.34 (2003 2004; 6 months)
- Dr Andrew D. Phillips (Toronto, Canada), European Community, RESEARCH TRAINING NETWORK project HPRN-CT-2002-00176 "New Chemistry and Catalysis with Hydride Compounds" (HYDROCHEM)" (2003 2004; 12 months)
- Dr Dina N. Akbayeva (Almaty, Kazakhstan), BASF AG, Ludwigshafen, Germany (2001 and 2002; 24 months)
- Dr Asunción Muñoz (Burgos, Spain), "Universidad de Burgos", Burgos, Spain (2002; 2 months)
- Dr Pablo Luis Lorenzo (University of La Laguna, Spain), "Gobierno Autonomo de Canarias", Tenerife, Spain (2001; 2 months)
- Dr Natalia V. Belkova, (INEOS RAS, Moscow, Russia) INTAS, Brussels, Belgium (2000; 2 months)
- Dr Isaac de los Rios (Cadiz, Spain), "Ministerio de Ciencia y Tecnologia", Madrid, Spain (1999 2000 and 2000 2001; 24 months)

Doctoral grants supervisor:

- Mr Mark Bispinghoff (ETHZ, Zürich, Switzerland), European Community, INTEGRATED TRAINING NETWORK project RFP7-PEOPLE-2012-ITN 317404 "A European Training Network for Sustainable Phosphorus Chemistry (SUSPHOS)" (2014; 1.0 month).
- Mr Sebastian Heinl (Regensburg, Germany), COST Chemistry Action CM0802 PHOSCINET (2013; 1 month)
- Mr Francesco Barzagli (Florence, Italy), PhD from the University of Florence: research grant on carbon dioxide capture by non-aqueous solution of amines (2013 2015)
- Mr Vincenzo Mirabello (Florence, Italy), PhD from the University of Florence: research grant on white phosphorus activation (2009 2011, 36 months)
- Miss Barbara Di Credico (Florence, Italy), FIRENZE HYDROLAB: research grant on H-storage materials, (2007 2009, 24 months)
- Miss Chiara Dinoi (University of Toulouse, France) COST-D29 Action (2006; 1 month)
- Mr Rafael Huirache Acuña (Centro de Investigación en Materiales Avanzados, S.C.; Chihuahua, México) CONACYT, Mexico (2006, 2 months)
- Ms Inocenta Mallqui Ayala (University of Almería, Spain) European Community, MARIE CURIE RESEARCH TRAINING NETWORK project MRTN-CT-2003-503864, "Transition Metal Chemistry and Catalysis in Aqueous Media" (AQUACHEM) (2006 – 2007; 18 months)
- Mr Raluca Malacea (LCC-CNRS, Toulouse, France) European Community, RESEARCH TRAINING NETWORK project HPRN-CT-2002-00176 "New Chemistry and Catalysis with Hydride Compounds" (HYDROCHEM) (2005; 1.5 month).
- Ms Inocenta Mallqui Ayala (University of Almería, Spain) European Community, MRTN-CT-2003-503864, AQUACHEM (2005; 1.5 month)
- Mr Paul Servin (LCC-CNRS, Toulouse, France) European Community, MRTN-CT-2003-503864, AQUACHEM (2005; 1 month)
- Mr Chaker Lidrissi (University of Almería, Spain) COST-D17 Action (2005; 1 month)
- Mr Julien Andriès (University of Rennes, France) Program "Galileo" (2003; 2 months)
- Miss Chiara Ciardi (University of Almería, Spain) (2003 2006; 12 months)
- Miss Rimane Aoun (University of Rennes, France) COST-D17 Action (2002; 3 months)
- Miss Sonia Mañas Carpio (University of Almería, Spain) (2001 and 2002; 4 months)
- Mr Mustapha Saoud (University of Almería, Spain) (2000, 2002 and 2005; 6 months)
- Miss Vanessa Landaeta Perera (IVIC, Caracas, Venezuela) (2000 and 2002; 10 months)

• Mr Guido Schmitt (University of Kaiserslautern, Germany) Deutschen Forschungsgemeinschaft: program Graduiertenkolleg ("Phosphorus as a link between different chemical disciplines") (1999; 6 months)

Other grants supervisor:

- Mr Francesco Barzagli, (Florence, Italy), CNR, Department of Molecular Design; research grant on "Removal of carbon dioxide by chemical methods based on the use of amines" (2010/2012; 24 months)
- Mr Cesar Alejandro Urbina (Universidad Simon Bolivar, Caracas, Venezuela), Ministry of Foreign Affairs, Rome, Italy, (2008, 6 months)
- Mr Fabrizio Zanobini (Florence, Italy), FIRENZE HYDROLAB: research grant on H-storage materials, (2007, 8 months; renewed 2008/2011, 36 months)
- Miss Antonella Guerriero (Florence, Italy), FIRENZE HYDROLAB: research grant on H-storage materials, (2007, 4 months)

Visiting scientists hosted (official grants):

- Prof. **Chi Ming Che**, Dept. of Chemistry; The University of Hong Kong, **Hong Kong**, CNR Short Term Mobility program **2004**; Common project: "Organic oxidation reactions promoted by transition metal oxo- and peroxo complexes"
- Prof. **Antonio Romerosa**, Área de Química Inorgánica, Facultad de Ciencias Experimentales, Universidad de Almeria, **Spain**; CNR Short Term Mobility program **2006**; Common project: "Study of Water Soluble ruthenium carbenes useful for the development of metathesis in water and/or aqueous/biphasic systems"
- Prof. **Jorge Bravo**, Departamento de Química Inorgánica, Universidad de Vigo, Vigo, **Spain**; CNR Short Term Mobility program **2008**; Common project: "Ruthenium and Rhodium Compounds with Water-Soluble Phosphines. Applications on Biphasic Catalysis"
- Prof. **Paul J. Dyson**, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, **Switzerland**; CNR Short Term Mobility program **2009**; Common project: "*Catalysis in ionic liquids*"
- Prof. **Donald A. Krogstad**, on Sabbatical leave from Dept. of Chemistry, Concordia College, Moorhead, Minnesota, **USA**; Petroleum Research Fund, ACS and Fulbright Research Scholarships USA, **2009 2010**; Common project: "The development and study of water-soluble bifunctional PX (X=N,O) ligands for green catalysis: Chemistry to protect the planet"
- Prof. **Elena Shubina**, A. N. Nesmeyanov Institute of Organoelement Compounds Russian Academy of Sciences (INEOS RAS), Moscow, **Russian Federation**; CNR Short Term Mobility program **2010**; Common Project: "Chemical models for sustainable catalysis in water"
- Prof. **Manfred Scheer**, Naturwissenschaftliche Fakultät IV, Chemie und Pharmazie, Universität Regensburg, Regensburg, **Germany**; Short Term Mobility program **2011**. Common Project: "Organometallic arsenides and tioarsenides and their application to material sciences"

Languages: Italian, English