

CURRICULUM VITAE of Prof. FABIO MARCHETTI

Personal Informations

Date of birth: June 28th, 1966. Place of birth: Macerata. Home address: loc. Fontanelle 30/B, 62010 Montecassiano (MC). Military service: from July 14th 1993 to July 1st 1994). E-mail: fabio.marchetti@unicam.it. University of Camerino, School of Science and Technology, Chemistry Section, Via S. Agostino 1 – 63032 Camerino (MC) ITALY, tel. office: +39 0737 402217, mobil: +39 339 3766754 (private), fax: +39 0737 637345.

Actual position

Full Professor at the School of Science and Technology, scientific sector CHIM/03 General and Inorganic Chemistry (03/B1), University of Camerino (MC). He is currently a component of the research unit of the CNR ICCOM (Institute of chemistry of organometallic compounds) established in the autumn of 2014 at the University of Camerino.

Training and Qualification

School-leaving certificate obtained in July 1985 with marks 54/60 at the Scientific Lyceum "Galileo Galilei" of Macerata.

Degree in Chemistry obtained in July 24th, 1991 with marks 110/110 "cum laude" at the University of Camerino (MC) by discussing a thesis entitled "Tin(IV) and organotin(IV) derivatives containing 4-acyl-5-pyrazolones and bis(4-acyl-5-pyrazolone) ligands".

Research contract with the University of Camerino from September 28th, 1991 to May 31st, 1992, for the acquisition of two X-ray crystal structures within the research program "Coordination and organometallic chemistry of heavy metals".

Qualifying Examination for the Profession of Chemist in November 25th, 1991 at the University of Camerino (MC).

School of Crystallography at C.N.R. Institute "G. Giacomello" - Area della Ricerca - Monterotondo Stazione (Roma) (November 6-10, 1995).

PhD in Inorganic Chemistry (VIIIth PhD cycle in Chemical Sciences at the University of Camerino, years 1993-1995), obtained in October 1st, 1996 at the "La Sapienza" University of Rome, by discussing the PhD dissertation entitled "Coordination modes of pyrazoles and pyrazole-containing N- and O-donor ligands towards different metal and organometal acceptors. Analytical, spectroscopic (IR, ¹H-, ¹³C-, ³¹P- and ¹¹⁹Sn NMR, UV-Visible, ¹¹⁹Sn Mössbauer) and structural studies (X-ray diffraction) of metal complexes".

Researcher in General and Inorganic Chemistry (CHIM/03) since November 14th, 1994, at the Faculty of Mathematic, Physical and Natural Sciences of the University of Camerino.

Visiting Professor within the **Azione Integrata Italia Spagna** (research activity with the group of Prof. Luis A. Oro, Zaragoza, October-November 1999 and July 2000).

Associate Professor in General and Inorganic Chemistry (CHIM/03) since October 1st, 2002, at the Faculty of Science and Technology of the University of Camerino.

Full Professor in General and Inorganic Chemistry (CHIM/03) since March 28th, 2011, at the School of Science and Technology of the University of Camerino.

Research Activity

Research Description

Fabio Marchetti is author and co-author of more than **190** papers in international peer-review journals, between them **7** invited reviews, and more than **180** communications to national and international congresses. The research activity of Fabio Marchetti has been carried out in the field of **Coordination Chemistry of N- and O-donor heterocycles** towards main groups, transition and rare earth metals, by using simple ligands such as pyrazoles, triazoles and imidazoles differently substituted, but also more complex ligands obtained through difficult multistep syntheses, and in detail: acylpyrazolones, bis(acylpyrazolones), poly(azolyl)metalates, poly(azolyl)alkanes, poly(azolyl)acetates, poly(azolyl)borates. The research has different goals:

- ligand-design, synthesis and characterization, in order to finely tune the steric and electronic features of the ligands and hence also modify the structural properties, the kinetic and thermodynamic stability, the solubility, the optical properties and the reactivity of the corresponding metal derivatives.
- synthesis of new metal complexes with catalytic activity in processes such as the stereoselective oxidation of alkanes and alkenes, the stereoselective hydrogenation of alkenes and ketones, stoichiometric metal-assisted reactions such as C-H bond activation, C-C bond breaking, agostic interaction, small molecule activation, etc..
- synthesis of new metal derivatives with anticancer and antimicrobial activity.
- synthesis of new luminescent metal derivatives to be applied as sensors.
- synthesis of new metal derivatives as low cost molecular precursors for the deposition of thin metallic films through the MOCVD technique.
- synthesis of new inorganic coordination polymers and MOFs with features suitable to application in gas-storage, gas-separation and stereoselective heterogeneous catalysis.

In the course of his research activity, Fabio Marchetti employed and became experienced in many modern analytical and spectroscopic techniques for the structural characterization of the ligands and metal derivatives obtained, and also for the study of their solution behavior and chemical reactivity. Fabio Marchetti has synthesized many hundred of new derivatives containing main groups, transition and rare earth metals. H-index: 31, with 3027 total citations (source: Scopus May 3, 2016).

Reviewer Activity

Prof. Fabio Marchetti regularly acts as reviewer for the following international journals:

Inorganic Chemistry, Crystal Growth & Design, Coordination Chemistry Reviews, European Journal of Inorganic Chemistry, Journal of Organometallic Chemistry, Inorganic Chemistry Communications, New Journal of Chemistry, Polyhedron, Inorganica Chimica Acta, Journal of Molecular Structure, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Applied Organometallic Chemistry, Journal of Thermal Analysis and Calorimetry, Journal of Photochemistry and Photobiology A: Chemistry, Structural Chemistry, Synthetic Metals, Chemical Papers, Journal of Molecular Catalysis A, Zeitschrift für Anorganische und Allgemeine Chemie, Arabian Journal of Chemistry, International Journal of Chemical Kinetics, Bioinorganic Chemistry and Applications, Phosphorus Sulfur and Silicon and the Related Elements, Main Group Metal Chemistry.

Prof. Fabio Marchetti was/is in the evaluation panel of national and international research proposals for public and private institutions.

Patents

- 1) C. Pettinari, R. Pettinari, **F. Marchetti**, C. Di Nicola, G. V. Badillo Pazmay, M. Montani, C. Marchini, G. Lupidi, A. Amici, "Complessi di Rutenio con Attivita' Chemioterapica Antitumorale", Italian Patent **IT MI 2013A001359** (appl. number: **2013IT-MI01359**, appl. data: **07/08/2014**, publ. data: **08/02/2015**).
- 2) C. Pettinari, R. Pettinari, **F. Marchetti**, C. Di Nicola, G. V. Badillo Pazmay, M. Montani, C. Marchini, G. Lupidi, A. Amici, "Ruthenium Complexes with Antitumoral Chemiotherapy Activites", International Patent **PCT/WO2015019296** (appl. number: **2014WO-IB63825**, appl. data: **06/08/2014**, publ. data: **12/02/2015**).
- 3) J. Palmucci, C. Pettinari, M. Marangoni, S. Scuri, **F. Marchetti**, A. Crispini, "Complessi Acilpirazolonici di Argento(I) incorporati in Polietilene ad Alta Densita o in Cloruro di Polivinile con Potente Attivita' Antibatterica", Italian Patent **IT RM 2013A000382** (appl. number: **2013IT-RM00382**, appl. data: **28/06/2013**, publ. data: **29/12/2014**).
- 4) J. Palmucci, C. Pettinari, M. Marangoni, S. Scuri, **F. Marchetti**, A. Crispini, "Silver(I) Acylpyrazolonate Complexes embedded in High Density Polyethylene or in polyvinyl chloride with Potent Antibacterial Activity", International Patent **PCT/IB2014062424** (appl. number: **2014WO-IB62424**, appl. data: **19/06/2014**, publ. data: **31/12/2014**).

Scientific Schools, Workshops and Congresses Organization

Member of the Organizing Committee of CO.G.I.C.O. '92, 1st Congress of the Interdivisional Group of Organometallic Chemistry, September 9-12, 1992, Camerino.

Member of the Organizing Committee of Ist, IInd, IIIrd, IVth, Vth, VIth, VII^t, VIIIth, IXth and Xth International School of Organometallic Chemistry, September 9-13, 1997, September 11-15, 1999, September 9-13, 2001, September 6-10, 2003, September 10-14, 2005, September 8-12, 2007, September 5-9, 2009, August 27-31, 2011, August 30-September 3, 2013, and September 5-9, 2015, respectively, in Camerino.

Member of the Organizing Committee of III^a EuChem Conference on "Nitrogen Ligands in Organometallic Chemistry and Homogeneous Catalysis", September 8-12 2004, Camerino.

Member of the Organizing Committee of 1st International Workshop on New Hybrid Metal-Organic Materials, January 16-18, 2009, Camerino.

Member of the Organizing Committee of the International AIC School on "Scattering Techniques: From Microscopic To Atomic Structures", August 30 – September 4, 2009, Camerino.

Member of the Organizing Committee of the 1st and 2nd editions of the Intensive Programme ERASMUS LLP Project ACAOC (Advanced Catalysis and Organometallic Chemistry), held in Camerino on August 16-28, 2009 and August 1-12, 2010, respectively.

Member of the Organizing Committee of the 1st and 2nd editions of the Intensive Programme ERASMUS LLP Project EUCHEME (EUropean CHemists for Energy, Materials and Environment), held in Camerino on August 7-18, 2012 and on July 31 – August 11, 2013, respectively.

Member of the Organizing Committee of the XLIII National Congress of Inorganic Chemistry Division, Italian Chemical Society, held in Camerino on September 9-12, 2015.

Research collaborations

Fabio Marchetti has collaborated and currently collaborates with many research groups of other national and international Universities and Research Institutes:

1. Prof. B. W. Skelton (University of Western Australia, Perth). 2. Prof. Sergei Troyanov and Prof. A. Drodzov (Lomonosov Moscow State University, Mosca, Russia). 3. Dr. Franco Caruso (Istituto CNR Montelibretti). 4. Prof.ssa Miriam Rossi (Department of Chemistry, Vassar College, New York, USA). 5. Dr. Marcello Crucianelli (Università dell'Aquila). 6. Prof. Rodica Dinica (University of Galati, Romania). 7. Prof. Luciano Pandolfo (Università di Padova). 8. Prof. Magda Monari (Università di Bologna). 9. Dr. John Hanna (ANSTO Facilities, NMR Division, Australia). 10. Prof. Ernesto Carmona e Augustin Galindo (Università di Siviglia). 11. Prof. Norberto Masciocchi e Dr.ssa Simona Galli (Università dell'Insubria). 12. Prof. Roberto Gobetto (Università di Torino). 13. Prof. Armando J. L. Pombeiro (Instituto Superior Tecnico, Technical University of Lisbon, Portogallo). 14. Prof. Alceo Macchioni (Università di Perugia). 15. Prof. Alessandra Crispini and Prof. Daniela Pucci (Centro di Eccellenza CEMIF.CAL-LASCAMM, CR-INSTM (Unità della Calabria, Università della Calabria.)). 16. Prof. Graham A. Bowmaker (School of Chemical Sciences, University of Auckland, Auckland 1142, New Zealand). 17. Prof. Agustin Galindo dal Pozo (University of Seville, Spain). 18. Prof. Francisco Jose Maldonado Hodar and Prof. Francisco Carrasco Marin (University of Granada, Spain). 19. Prof. Paul J. Dyson (Institute of Chemical Sciences and Engineering, Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland).

Invited lecturer

- XXXI Congresso Interregionale TUMA 2012, Francavilla al Mare (CH) 18-20 June 2012 ("Nuovi derivati arene rutenio(II) con attività catalitica e biologica");
- XXV ICOMC International Conference on Organometallic Chemistry, Lisbon (Portugal) 2-7 September 2012 ("(Arene)Ruthenium(II) Chemistry, From Organometallics And Catalysis To Biomedical Applications").
- 6th Nanoschool on "Novel Surface Modification Methods and Innovative Nanomaterials for Analytical, Biodevice and Environmental Applications" held in Vilnius (Lituania) 7-9 November 2012 ("Novel metal derivatives for luminescent and antimicrobial materials").

Teaching Activity

At High Schools (1991-1994)

Teacher in "Chemistry", sector 13/A (ex A015), from November 12 1991 to December 9 1991 at I.T.I.S. "E. Mattei" in Recanati (MC)

Teacher in "Chemistry", sector 13/A (ex A015), from January 14 1992 to June 12 1992 at the branch Institute in Castelfidardo (AN) of the I.T.I.S. "V. Volterra" in Torrette di Ancona (AN).

Teacher in "Chemistry", sector 13/A (ex A015), from October 18 1994 to November 10 1994 at the branch Institute in Camerino (MC) of the I.T.I.S. "E. Divini" in S. Severino Marche (MC).

At the University (since 1994)

Tutorship in esercitazioni

In the academic years 1994-95, 1995-96, 1996-97, 1997-98, 1998-99, 1999-2000, 2000-01, Fabio Marchetti did **tutorship in theoretical esercitazioni** within the following courses:
General and Inorganic Chemistry (Degree in Chemistry).

General and Inorganic Chemistry (Degree in Biological Sciences).
General and Inorganic Chemistry (Degree in Natural Sciences).
General and Inorganic Chemistry (Degree in Physics).
General and Inorganic Chemistry (Degree in Pharmacy).
General and Inorganic Chemistry (Degree in Chemistry and Pharmaceutical Technologies).
Laboratory of Inorganic Chemistry (Degree in Chemistry and Pharmaceutical Technologies).
and **tutorship in practical exercitations** within the following courses:
Laboratory of General and Inorganic Chemistry (Degree in Chemistry).
Laboratory of Inorganic Chemistry I (Degree in Chemistry).
Laboratory of Inorganic Chemistry II (Degree in Chemistry).
Laboratory of Inorganic Chemistry (Degree in Chemistry and Pharmaceutical Technologies).

Previous teachings

Laboratory of Chemistry (Univ. Dipl. in “Technician for Eco-Sustainable Development”) in the academic year 1998-1999.

Laboratory of Inorganic Chemistry II (Master of Science Degree in “Chemistry and Advanced Chemical Methodologies”) since the academic year 1997-1998 until to the academic year 2002-2003.

Laboratory of Didactic of Chemistry I (Interuniversity School of Specialization for Teaching in School, address in Natural Sciences, Universities of Macerata and Camerino) since the academic year 1999-2000 until to the academic year 2006-2007.

Advanced Didactic of Chemistry (Interuniversity School of Specialization for Teaching in School, address in Natural Sciences, Universities of Macerata and Camerino) in the academic year 2007-2008.

Foundations of Chemistry II (Bachelor Degree in “Innovation Technologies”) since the academic year 2003-2004 until to the academic year 2005-2006.

Foundations of Chemistry I (Bachelor Degree in “Innovation Technologies”) in the academic year 2006-2007.

Physical Methods in Inorganic Chemistry (Master of Science Degree in “Chemistry and Advanced Chemical Methodologies”) since the academic year 2003-2004 until to the academic year 2008-2009.

Inorganic Solid State Chemistry (Master of Science Degree in “Chemistry and Advanced Chemical Methodologies”) since the academic year 2003-2004 until to the academic year 2011-2012.

Advanced Inorganic Materials (Master of Science Degree in “Chemistry and Advanced Chemical Methodologies”) in the academic year 2012-2013.

Didactic of Chemistry (Bachelor Degree in “Chemistry”) since the academic year 2011-2012 until to the academic year 2012-2013.

Actual teachings

Organometallic Chemistry (Master of Science Degree in “Chemistry and Advanced Chemical Methodologies”) since the academic year 1999-2000.

Advanced Inorganic Chemistry (Master of Science Degree in “Chemistry and Advanced Chemical Methodologies”) since the academic year 2007-2008.

General and Inorganic Chemistry (Bachelor Degree in “Chemistry”) since the academic year 2012-2013.

Elements of Chemistry (Master of Science Degree in “Science of Primary Education” at the University of Macerata, Italy) since the academic year 2013-2014.

Teaching Staff Periods

- Teaching Staff period at the **University of Galati, Romania**, in September 2008, during which time Fabio Marchetti did 8 h lessons of “Inorganic Solid State Chemistry” to the Master and PhD students and the invited lectures “Coordination Chemistry of Acylpyrazolones” and “New Luminescent Compounds” at the Department of Chemistry of Galati University.
- Teaching Staff period at the **University of Seville, Spain**, in September 2010, during which time Fabio Marchetti did 6 h lessons of “Coordination chemistry: theoretical principle, structural aspects and applications” and “Organometallic chemistry: new compounds and applications in catalysis” to the Master and PhD students and the invited lecture “Acylpyrazolones Coordination Chemistry and Applications” at the Department of Inorganic Chemistry of Seville University.
- Teaching Staff period at the **University of Granada, Spain**, in September 2011, during which time Fabio Marchetti did 6 h lessons of “Coordination chemistry: theoretical principle, structural aspects and applications” and “New organometallic compounds and their applications in catalysis” to the Master and PhD students and the invited lecture “Acylpyrazolones Coordination Chemistry and Applications” at the Department of Inorganic Chemistry of Granada University.
- Teaching Staff period at the **University of Lisbon, Portugal**, in September 2012, during which time Fabio Marchetti did 5 h lessons of “Acylpyrazolones’ coordination chemistry and applications in antimicrobial composite materials” to the Master and PhD students and the invited lecture and “New organometallic compounds and their applications in medicine and catalysis” at the Instituto Superior Tecnico of Technical University of Lisbon.
- Teaching Staff period at the **University of Seville, Spain**, in November 2012, during which time Fabio Marchetti did 6 h lessons of “Luminescence in metal derivatives: theoretical principle, structural aspects and potential applications” to the Master and PhD students and the invited lecture and “New polynuclear silver(I) derivatives and their applications as antibacterial additives in polymeric materials” at the Department of Inorganic Chemistry of Seville University.
- Teaching Staff period at the **University of Wroclaw, Poland**, in September 2013, during which time Fabio Marchetti did 6 h lessons of “Luminescence in metal derivatives: theoretical principle, structural aspects and potential applications” to the Master and PhD students and the invited lecture and “Novel Silver(I) Compounds for Antimicrobial Materials” at the Faculty of Chemistry of Wroclaw University.
- Teaching Staff period at the **University of Granada, Spain**, in September 2014, during which time Fabio Marchetti did 6 h lessons of “Luminescence in metal derivatives: theoretical principle, structural aspects and potential applications in composite materials” to the Master and PhD students and the invited lecture and “Composite materials containing Silver(I) additives with permanent antibacterial activity” at the Department of Chemistry of Granada University.

Supervisor of degree theses

Fabio Marchetti was supervisor of more than 40 experimental degree theses since 1996 till now, and supervisor of 7 PhD thesis.

Tutoring and other Activities

Seminars and Refresh Courses

- Fabio Marchetti did many seminars in High Schools of Marche Region as activity of vocational guidance to University.
- Fabio Marchetti did the following invited seminars for teachers of High Schools, as part of the course **“Chemistry in the 21st century: a science at service to mankind”** organized by Provveditore agli Studi of Macerata:
 - a) **“Which Future for Chemistry?”** (March 27, 2000).
 - b) **“Chemistry as a tool of Society and other disciplines”** (April 19, 2000).
- Fabio Marchetti did the invited seminar **“Degrees and Jobs”** (June 3, 2000) in the Regional Congress **“School and Industry”** in Recanati (MC).
- Fabio Marchetti performed the **Chemistry Course for freshmen** (10 h) at San Benedetto del Tronto (UNICAM), September 2007.
- Fabio Marchetti performed the **Chemistry Course for freshmen** (9 h) at Camerino (UNICAM), October 2008.
- Fabio Marchetti performed a lesson (2 h) within the **Refresher Course for High School Teachers** in the **Energy Project** at Camerino (UNICAM), September 8, 2008.
- Fabio Marchetti has performed, since November 2008, a cycle of lessons (24 h) within the **“Refresher Course in Chemistry for High School Teachers”** in the **“Scientific Degrees Project”** (PLS: Progetto Lauree Scientifiche) at the Scientific Lyceum of Civitanova Marche (MC), organized in collaboration with the Ufficio Scolastico Regionale and with the sponsorship of the MIUR.

Organization of Study Days

Fabio Marchetti have organized or participated to the organization of:

- 1) **“How to teach Chemistry today?”** in Camerino September 25, 2006.
- 2) **“Didactic of the concept of Energy”** in Camerino May 3, 2007.
- 3) **“Analytical applications of Chemistry”** in Camerino November 7, 2008.
- 4) **“Chemistry and its evolution: seminars on History and Didactic of Chemistry”** in collaboration with the S.C.I., in Camerino May 13 and 14.
- 5) **“Chemistry today and tomorrow”** in collaboration with the S.C.I., in Camerino May 25, 2011.
- 6) **“Adopt an Element: an invitation to the Periodic Table”** in Camerino May 24, 2013.

Didactical Projects

- 1) Fabio Marchetti produced in 2003 a **multimedia CD** on the **“Interaction between radiation and matter”** for the e-learning activities of the University of Camerino, as a co-author of Dr. Andrea Perali and Dr. Cristina Cimorelli of the University of Camerino, and in collaboration with Education.spa of Firenze. Such CD was awarded as **third** in its category at the **Pirelli Award edition 2003**.
- 2) Fabio Marchetti produced in 2005 the **Course in Chemistry for undergraduates** together with Dr. Riccardo Pettinari, and in 2006 he collaborated to the production of the **Course of General and Inorganic Chemistry of the Degree in Pharmacy** by Prof. Claudio Pettinari. Such courses are actually present as e-learning activities of UNICAM platform.

- 3) Fabio Marchetti was member of the *teaching staff* and coordinator of the tasks for the “Applications of Organometallic Chemistry in the fields of new energetic sources and for Green Chemistry” in the **IP ERASMUS LLP Project** (network with 9 Universities- Siviglia, Grenada, Lisbona, Wroclaw, Galati, Tolosa, Aberdeen, Ioannina, Camerino): **Advanced Catalysis and Organometallic Chemistry (ACAOC)**, General Coordinator Prof. Claudio Pettinari. The first edition has been held in Camerino, 16-28 August 2009. The second edition has been held in Camerino, 1-12 August 2010.
- 4) Fabio Marchetti was member of the *teaching staff* and coordinator of the tasks for the “Applications of Organometallic Chemistry in the fields of new energetic sources and for Green Chemistry” in the **IP ERASMUS LLP Project** (network with 10 Universities - Siviglia, Grenada, Lisbona, Wroclaw, Galati, Tolosa, Aberdeen, Pau, Vilnius, Camerino): **European Chemists for Energy, Materials and Environment (EUCHEME)**, General Coordinator Prof. Claudio Pettinari. The first edition has been held in Camerino, 7-18 August 2012. The second edition has been held in Camerino, 31 July-11 August 2013.
- 5) Fabio Marchetti was the Local Coordinator and organizer of the **Piano Lauree Scientifiche Chimica** for Marche Region in the period 2010-2012, a national project funded by Minister of Instruction, University and Research, devoted to increase scientific vocations within High School’s students and chemistry’s graduated in Italy.

Financial Resources

Research Projects Financed

Fabio Marchetti is currently involved or has participated to the following Research Projects, by carrying out activity of synthesis and characterization of ligands and metal complexes and by coordinating specific sections of the projects:

- **Fondazione Carima Project** (1999): “Synthesis of new Sn, Pt and Au derivatives with anticancer activity”, Scientific Coordinator Prof. Augusto Cingolani.
- **Azione Integrata Italia Spagna MURST, Unicam-Saragozza** (1999), Scientific Coordinator Prof. Augusto Cingolani.
- **MURST Cooperlink 1999 Unicam-Lomonosov** (1999): “Synthesis and spectroscopic characterization of new Rh complexes containing N- and/or O-donor ligands as potential catalysts in hydroformilation and hydrogenation reactions”, Scientific Coordinator Prof. Claudio Pettinari.
- **Intas Call 2000** (INTAS-00-469): “New mono and heterometallic azolates as new materials and new material sources.” (Scientific cooperation between Camerino, Saragozza, Mosca and Novosibirsk Universities -registration n.326), Scientific Coordinator Prof. Claudio Pettinari.
- **PRIN 2000** (MM03027791_001): “Selective synthesis of organic carbamate, carbonate and carboxylate derivatives through sequential activation of carbon dioxide and other substrates” Scientific Coordinator and Responsible of the Research Unit Prof. Michele Aresta.
- **MURST Cooperlink 2001 Unicam-Lomonosov** (2001): “Synthesis and spectroscopic characterization of new Rh complexes containing N- and/or O-donor ligands as potential catalysts in hydroformilation and hydrogenation reactions”, Scientific Coordinator Prof. Claudio Pettinari.

- **Fondazione Carima Project** (2001): "Synthesis of new derivatives of TiO₂ as precursors in osteointegration of dental implants through MOCVD technique", Scientific Coordinator Prof. Claudio Pettinari.
- **PRIN 2003** (2003039774_003): "Multiple insertion of unsaturated molecules in cationic Palladium complexes for the stereoselective synthesis of complex molecular systems with highly ordered structure" Scientific Coordinator Prof. Michele Aresta and Responsible of the Research Unit Prof.ssa Carla Carfagna.
- **Fondazione Carima Project** (2003): "Synthesis of new Sn, Pt and Au derivatives with anticancer activity", Scientific Coordinator Prof. Augusto Cingolani.
- **Fondazione Carima Project** (2005): "Synthesis of new Sn, Pt and Au derivatives with anticancer activity", Scientific Coordinator Prof. Augusto Cingolani.
- **Research Project financed by Dipharma Spa** (2005): "New metal catalysts of hydration reactions of double and triple bonds", Scientific Coordinator Prof. Claudio Pettinari.
- **Research Project financed by Dipharma Spa** (marzo 2006): "Original synthesis of pharmaceutically active derivatives", Scientific Coordinator Prof. Claudio Pettinari.
- **Research Project financed by Dipharma Spa** (settembre 2006): "Original synthesis of pharmaceutically active derivatives", Scientific Coordinator Prof. Claudio Pettinari.
- **Universities Cooperation Project** (UNICAM ASSCIR06) with Russian Federation (University of Camerino - Lomonossov University of Moscow) for the year 2006: "Synthesis and spectroscopic characterization of new Rh complexes containing N-and/or O-donor ligands as potential catalysts in hydroformilation and hydrogenation reactions", Scientific Coordinator Prof. Claudio Pettinari.
- **Azione Integrata Italia Spagna, Unicam-Siviglia** (2007): "New polyfunctional porous metallorganic coordination polymers containing N-donor heterocyclic ligands and carboxylate counterions", Scientific Coordinator Prof. Claudio Pettinari.
- **Universities Cooperation Project** (UNICAM ASSCIR07) with Russian Federation (University of Camerino - Lomonossov University of Moscow) for the year 2007: "Synthesis and spectroscopic characterization of new Rh complexes containing N-and/or O-donor ligands as potential catalysts in hydroformilation and hydrogenation reactions", Scientific Coordinator Prof. Claudio Pettinari.
- **MIUR Cooperlink Unicam-Lomonosov-Galati** (2007): "Advanced qualification and training of young researchers in the Chemistry of Polyfunctional Innovative materials and of New Sources for Energy and Environment", Scientific Coordinator Prof. Claudio Pettinari.
- **Universities Cooperation Project** (UNICAM ASSCIR08) with Russian Federation (University of Camerino - Lomonossov University of Moscow) for the year 2008: "Advanced qualification and training of young researchers in the synthesis of new gold coordination complexes with anticancer activity and of new coordination polymers", Scientific Coordinator Prof. Claudio Pettinari.
- **Progetto Giovani Tecnologi – Regione Marche 2008** "Design and synthesis of a family of new thermoplastic polyurethane materials with new biodegradation and biocompatibility features coupled to conventional properties, for biomedical applications", Scientific Coordinator Prof. Claudio Pettinari, Scientific Tutor Prof. Fabio Marchetti.
- **Progetto Giovani Tecnologi – Regione Marche 2008** "Protocol for the optimization of the extraction process in the preparation of espresso coffee", Scientific Coordinator Prof. Riccardo Piergallini, Scientific Tutor for the chemical aspects Prof. Fabio Marchetti.

- **Piano Lauree Scientifiche Chimica** for Marche Region, a national project funded by Minister of Instruction, University and Research, devoted to increase scientific vocations within High School's students and chemistry's graduated in Italy.
- **PRIN 2010-2011** (2010BNZ3F2): "DESCARTES - Development of Energy-targeted Self-assembled supramolecular systems: a Convergent Approach through Resonant information Transfer between Experiments and Simulations" Scientific Coordinator Prof. Maurizio Casarin and Responsible of the Research Unit Prof. Claudio Pettinari.
- **FAR 2011-2012** (STI000044): "Smart Polymeric Materials For Eco-Friendly Antimicrobial Application" Scientific Coordinator Prof. Fabio Marchetti.

Institutional Activity

Fabio Marchetti currently holds the following institutional assignments:

- **Rector's Delegate for Higher Education** (post secondary courses - IFTS, ITS - and postgraduate courses, MSc in Teacher Training, Masters, TFA and Specialization Schools) from 2011, November.
- **Member of the "Board for Rules of Conduct"** of the University of Camerino from 2014, February.
- **Member of the "Steering Committee"** of School of Advanced Studies of the University of Camerino from 2014, December.

Fabio Marchetti has previously held the following institutional assignments:

- **Delegate of the Department of Chemical Sciences in the Management Committee of The "Interdepartmental Center of Sound/Visual and Printing Techniques"** of University of Camerino, from January to December 1997 (D.R. n° 216 of January 4, 1997).
- **Member of the Judging Commission in the Comparative Evaluation Procedure for a job of University Researcher in the Scientific Sector CHIM03** (General and Inorganic Chemistry) (D.R. n. 103 of July 24, 2000, published in G.U. n. 66 - 4^a special series - of August 25, 2000), at the Faculty of Science of the University of Messina in the period of October 11-12 and December 4-7, 2000.
- **Member of the Council of the Department of Chemical Sciences** since September 2003, and then confirmed in 2008 till now.
- **Delegate for University Orientation of the Council of Degree in Chemistry** since December 2002 to July 2004.
- **Coordinator of the address in Natural Sciences of the SSIS** (Interuniversity School of Specialization for Teaching in School, Universities of Macerata and Camerino) since June 2004 to June 2008.
- **Delegate of UNICAM in Training of Teachers** since 2004 (by Senate Council of University of Camerino, November 11 2004) to 2008.
- **Delegate of UNICAM in Training of Teachers** designed by the Rector of University of Camerino since February 2008.
- **Delegate of UNICAM within CUM's Technical Group for Teachers' Training** of Macerata and Camerino Universities since February 2011 (CUM = Consorzio Universitario Maceratese).
- **Member of the Didactical Council and Coordinator of the Agro-Bio-Chemical Address** in the "Special Qualifying Courses" for Practical technical Teachers, held in UNICAM in the period November 2005 – April 2006 in conformity to D.M. 21/2005 (D.R. n. 780 of October 27, 2005).

- **Vice President of the Didactical Council and Coordinator of the Agro-Bio-Chemical Address** in the “**Special Qualifying Courses**” for High School Teachers, held in UNICAM in the period November 2006 – January 2008 in conformity to D.M. 85/2005 (D.R. n. 615 of October 12, 2006).
- **Delegate of UNICAM in the Council of SSIS Marche** designed by the Rector of University of Camerino since June 2008.
- **Member of the Council of PhD Course in Chemistry** since April 2008.
- **Member of The Scientific Commission of UNICAM** designed by the Department of Chemical Sciences in March 19, 2008, and approved by the Departments’ Directors Council in March 31, 2008 (D.R n. 110 of April 11, 2008).
- **Coordinator of the Degree Courses in Chemistry** (Bachelor **Cl. 21**) and **Chemistry and Advanced Chemical Methodologies** (Master in Science **Cl. 62/S**) since May 2008.
- **Member of the Judging Commission in the Comparative Evaluation Procedure for a job of University Researcher in the Scientific Sector CHIM03** (General and Inorganic Chemistry) (D.R. 1234/08 of July 21, 2008, published in G.U. n. 63 - 4^a special series - of August 12, 2008) at the Faculty of Pharmacy of the University “La Sapienza” of Roma in the period of September 11 and October 16-17, 2008.
- **Member of the Council of the Didactical laboratories of the Province of Macerata**, since February 5, 2009, within the activities of the project “**Agreement for the School**” of the Province of Macerata.
- **Local Coordinator of PLS – section Chemistry** (PLS is Progetto Lauree Scientifiche, Scientific Degrees Project, 3rd edition 2010-2012, from MIUR the Minister of Instruction, University and Research) from February 2010 to September 2012.
- **Fabio Marchetti** was one of the academic responsables and signatory of a Cooperation Agreement signed in January, 21th 2009 concerning Dual Master's Degree Programmes between the Instituto Superior Técnico of Lisbon, Portugal, and the University of Camerino (MC), Italy, for the constitution of a Dual Master in Chemistry between the two Institutions University of Camerino and the Instituto Superior Tecnico of Lisbon, Portugal.
- **Fabio Marchetti** was also the applicant for a General Cooperation Agreement signed in February, 22th 2010 between the Technical University of Lisbon, Portugal, and the University of Camerino (MC), Italy, for the promotion of cooperation of their various departments and administrative structures in the following activities: the exchange of teaching and research staff, joint scientific research, the exchange of scientific papers and publications, the exchange of information concerning academic administrative practices and experience, trainships and student visits, participation in evaluation committees, cultural and sporting exchanges.

Attachment 1

Publications of Prof. Fabio Marchetti

1992:

- 1) *Tin(IV) and organotin(IV) adducts of 4-acyl-5-pyrazolones and germanium(IV) 4-acyl-5-pyrazolonates.* Pettinari, C.; Bonati, F.; Cingolani, A.; Gioia Lobbia, G.; **Marchetti, F.** *Gazz. Chim. Ital.* **1992**, 122, 261-267.

1993:

- 2) *Tin(IV) and organotin(IV) heterocyclic β -diketonate complexes. I. Bis-[4-(1-phenyl-3-methylpyrazol-5-one)]dioxo-alkane derivatives.* Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Leonesi, D.; Gioia Lobbia, G.; Lorenzotti, A. *J. Organomet. Chem.* **1993**, 454, 59-66. DOI: 10.1016/0022-328X(93)83223-I.
- 3) *On the interactions between silver(I) compounds and various bis(pyrazol-1-yl)alkanes.* Pettinari, C.; Lorenzotti, A.; Cingolani, A.; Leonesi, D.; Marra, M.; **Marchetti, F.** *Gazz. Chim. Ital.* **1993**, 123, 481-486.
- 4) *Tin(IV) and organotin(IV) complexes containing the anion of some 1-R'-3-methyl-4-acyl-5-pyrazolones. Crystal structure of bis(1-phenyl-3-methyl-4-benzoylpyrazolon-5-ato)-dimethyl tin(IV).* Bovio, B.; Cingolani, A.; **Marchetti, F.**; Pettinari, C. *J. Organomet. Chem.* **1993**, 458, 39-48. DOI: 10.1016/0022-328X(93)80455-K.
- 5) *Synthesis and characterization of some tin(IV) and organotin(IV) derivatives of 1-phenyl-3-methyl-4-aro-5-pyrazolones.* **Marchetti, F.**; Pettinari, C.; Cingolani, A.; Leonesi, D. *Synth. React. Inorg. Met.-Org. Chem.* **1993**, 23, 1485-1505. DOI: 10.1080/15533179308016701.

1994:

- 6) *Zinc, Cadmium and Mercury derivatives of 1,2-bis(3,5-dimethylpyrazol-1-yl)ethane.* Pettinari, C.; **Marchetti, F.**; Lorenzotti, A.; Gioia Lobbia, G.; Leonesi, D.; Cingolani, A. *Gazz. Chim. Ital.* **1994**, 124, 51-55.
- 7) *Synthesis and characterization of some tin(II) and tin(IV) derivatives of 4-acyl-5-pyrazolones. crystal structure of bis(1-phenyl-3-methyl-4-acetylpyrazolon-5-ato)tin(II).* Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Marcianti, C.; Spagna, R.; Colapietro, M. *Polyhedron* **1994**, 13, 939-950. DOI: 10.1016/S0277-5387(00)83014-4.
- 8) *Tin(IV) and organotin(IV) complexes with heterocyclic β -diketonates. II. Bis-[4(1-phenyl-3-methylpyrazol-5-one)C=O]₂(CH₂)_n] (n = 5-8, 10).* Pettinari, C.; **Marchetti, F.**; Gioia Lobbia, G.; Cingolani, A. *Gazz. Chim. Ital.* **1994**, 124, 285-294.
- 9) *Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-aro-5-pyrazolones. Crystal structure of trans-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV).* Pettinari, C.; **Marchetti, F.**; Leonesi, D.; Rossi, M.; Caruso, F. *J. Organomet. Chem.* **1994**, 483, 123-137. DOI: 10.1016/0022-328X(94)87155-8.
- 10) *First-row transition- and group 12- and 14-metal(II) bis[hydridotris (3-Me-1H-pyrazol-1-yl)borate]. The X-ray crystal structure of the nickel derivative.* Cecchi, P.; Gioia Lobbia, G.; **Marchetti, F.**; Valle, G.; Calogero, S. *Polyhedron* **1994**, 13, 2173-2178. DOI: 10.1016/S0277-5387(00)81499-0.

1995:

- 11) *Tin(IV) and organotin(IV) derivatives of azoles.*
Pettinari, C.; **Marchetti, F.**; Leonesi, D.; Lorenzotti, A.; Rivarola, E. *Syntheses and Methodologies in Inorganic Chemistry* **1995**, 5, 309-314.

1996:

- 12) *Tin(IV) and organotin(IV) complexes containing mono or bidentate N-donor ligands. II. 4-Phenylimidazole derivatives. Crystal and molecular structure of [bis(4-phenylimidazole)trimethyltin(IV)] chloride.*
Pettinari, C.; **Marchetti, F.**; Pellei, M.; Cingolani, A.; Barba, L.; Cassetta, A. *J. Organometal. Chem.* **1996**, 515, 119-130. DOI: 10.1016/0022-328X(95)06054-Z.
- 13) *Synthesis and spectroscopic characterization of new Cu(I) complexes containing triaryl-tricycloalkylphosphines and heterocyclic anionic or neutral N-donor ligands. Crystal and molecular structure of [(Cy₃P)₂(pzH)Cu]ClO₄·CH₃OH (Cy = cyclohexyl, pzH = pyrazole).*
Pettinari, C.; **Marchetti, F.**; Polimante, R.; Cingolani, A.; Portalone, G.; Colapietro, M. *Inorg. Chim. Acta* **1996**, 249, 215-229. DOI: 10.1016/0020-1693(96)05101-8.
- 14) *Triorganotin(IV) derivatives of several 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization and behavior in solution. Crystal structure of aquotrimethyl(4-p-methoxybenzoyl-1-phenyl-3-methyl-pyrazolon-5-ato)tin(IV).*
Marchetti, F.; Pettinari, C.; Cingolani, A.; Gioia Lobbia, G.; Cassetta, A.; Barba, L. *J. Organometal. Chem.* **1996**, 517, 141-154. DOI: 10.1016/0022-328X(96)06170-0.
- 15) *Synthesis and characterization of copper(I) derivatives with N-donor ligands - III. Hydrotris(1H-pyrazol-1-yl)borate. The X-ray crystal structure of [HB(μ-pz)₃-Cu(PPh₃)].*
Gioia Lobbia, G.; Pettinari, C.; **Marchetti, F.**; Bovio, B.; Cecchi, P. *Polyhedron* **1996**, 15, 881-890. DOI: 10.1016/0277-5387(95)00323-8.
- 16) *Synthesis and characterization of copper(I) and copper(II) coordination compounds containing 4-acylpyrazolon-5-ato ligands. Crystal structure of [(4-trifluoroacetyl-1-phenyl-3-methyl pyrazolon-5-ato)bis(triphenylphosphine) copper(I)].*
Marchetti, F.; Pettinari, C.; Cingolani, A.; Leonesi, D.; Camalli, M.; Pifferi, A. *Polyhedron* **1996**, 15, 3835-3849. DOI: 10.1016/0277-5387(96)00104-0.
- 17) *Tin(IV) and organotin(IV) derivatives of anionic 4-acyl-5-pyrazolonato ligands: synthesis, spectroscopic characterization (IR, far-IR, ¹¹⁹Sn Mössbauer, ¹H, ¹³C and ¹¹⁹Sn NMR) and behavior in solution. Crystal and molecular structure of trans-diphenylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV).*
Caruso, F.; Leonesi, D.; **Marchetti, F.**; Rivarola, E.; Rossi, M.; Tomov, V.; Pettinari, C. *J. Organometal. Chem.* **1996**, 519, 29-44. DOI: 10.1016/S0022-328X(96)06178-5.
- 18) *Tin(IV) and organotin(IV) complexes containing mono or bidentate N-donor ligands-I. 1-Benzylimidazole derivatives.*
Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Bartolini, S. *Polyhedron* **1996**, 15, 1263-1276. DOI: 10.1016/0277-5387(95)00384-3.
- 19) *Trichloro-, mono-, di- and tri-organotin(IV) derivatives of hydridotris(4-methylpyrazol-1-yl)borates.*
Gioia Lobbia, G.; Valle, G.; Calogero, S.; Cecchi, P.; Santini, C.; **Marchetti, F.** *J. Chem. Soc. Dalton Trans.* **1996**, 2475-2483. DOI: 10.1039/DT9960002475.

1997:

- 20) *First-row transition and group 12 element bis{poly[4-methyl-1H-pyrazol-1-yl]borate}} derivatives. X-ray crystal structure of $\text{Zn}[\text{HB}(4\text{-Mepz})_3]_2 \cdot \text{CHCl}_3$.*
Gioia Lobbia, G.; Bovio, B.; Santini, C.; Pettinari, C.; **Marchetti, F.** *Polyhedron* **1997**, *16*, 671-680.
DOI: 10.1016/0277-5387(96)00294-X.
- 21) *Tin(IV) and organotin(IV) derivatives of novel β -diketones. I. Dialkyltin(IV) complexes of 1-phenyl-3-methyl-4- $R'(C=O)$ -pyrazol-5-one ($R' = \text{CCl}_3, \text{O-CH}_3, \text{O-C}_2\text{H}_5, \text{O-i-C}_3\text{H}_7, \text{O-C}_7\text{H}_7$). Crystal and molecular structure of trans-dimethylbis[1-phenyl-3-methyl-4-i-propoxycarbonyl-pyrazolon-5-ato]tin(IV).*
Pettinari, C.; **Marchetti, F.**; Gregori, A.; Cingolani, A.; Tanski, J.; Rossi, M.; Caruso, F. *Inorg. Chim. Acta* **1997**, *257*, 37-48. **DOI:** 10.1016/S0020-1693(96)05437-0.
- 22) *Tin(IV) and organotin(IV) derivatives of novel β -diketones. II. Mono and diaryltin(IV) complexes of 1-phenyl-3-methyl-4- $R'(C=O)$ -pyrazol-5-one ($R' = \text{CCl}_3, \text{O-CH}_3, \text{O-C}_2\text{H}_5$). Crystal and molecular structure of trans-dibenzylbis[1-phenyl-3-methyl-4-methoxy carbonyl-pyrazolon-5-ato]tin(IV), $(\text{C}_7\text{H}_7)_2\text{Sn}(\text{Q}^{\text{OMe}})_2$.*
Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Lorenzotti, A.; Mundorff, E.; Rossi, M.; Caruso, F. *Inorg. Chim. Acta* **1997**, *262*, 33-46. **DOI:** 10.1016/S0020-1693(97)05500-X.

1998:

- 23) *Tin(IV) and organotin(IV) derivatives of novel β -diketones. III. Diorgano and dihalotin(IV) complexes of 1,3-dimethyl-4- $R(C=O)$ -pyrazol-5-one ($R = \text{CH}_3, R = \text{C}_6\text{H}_5$) and the crystal structure of trans-dicyclohexylbis[1,3-dimethyl-4-acetylpyrazolon-5-ato]tin(IV).*
Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Leonesi, D.; Mundorff, E.; Rossi, M.; Caruso, F. *J. Organomet. Chem.* **1998**, *557*, 187-205. **DOI:** 10.1016/S0022-328X(97)00680-3.
- 24) *The molecular structure of trans-dimethylbis[1-phenyl-3-methyl-4-trichloro acetylpyrazolon-5-ato]tin(IV), a species that undergoes C-C bond cleavage.*
Marchetti, F.; Pettinari, C.; Rossi, M.; Caruso, F. *Main Group Met. Chem.* **1998**, *21*, 255-259. **DOI:** 10.1515/MGMC.1998.21.5.255.
- 25) *Tin(IV) and organotin(IV) complexes containing mono- or bidentate N-donor ligands-IV. 2-Methyl, 2-isopropyl- and 4-methyl-imidazole derivatives: synthesis, characterization and behavior in solution.*
Pettinari, C.; Pellei, M.; **Marchetti, F.**; Santini, C.; Miliani, M. *Polyhedron* **1998**, *17*, 561-576. **DOI:** 10.1016/S0277-5387(97)00330-6.
- 26) *Ligation properties of N-substituted imidazoles: synthesis, spectroscopic and structural investigation, and behaviour in solution of zinc(IV) and cadmium(II) complexes.*
Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Troyanov, S. I.; Drozdov, A. *Polyhedron* **1998**, *17*, 1677-1691. **DOI:** 10.1016/S0277-5387(97)00455-5.
- 27) *Tris(4-bromo-1H-pyrazol-1-yl)borato derivatives of first-row transition and group 14 and 14 metals. X-ray crystal structure of $[\text{HB}(4\text{-Brpz})_3]_2\text{Cd}$. ^{113}Cd solution NMR study of bis[poly(pyrazolyl)borato]cadmium complexes.*
Gioia Lobbia, G.; Bovio, B.; Santini, C.; Cecchi, P.; Pettinari, C.; **Marchetti, F.** *Polyhedron* **1998**, *17*, 17-26. **DOI:** 10.1016/S0277-5387(97)00271-4.
- 28) *(1-Phenyl-3-methyl-4-acetylpyrazolon-5-ato)rhodium(I) complexes, synthesis, structural and spectroscopical characterization: reactivity of diolefin- and dicarbonyl-rhodium complexes toward N-, P- and O-donors.*
Pettinari, C.; Accorroni, F.; Cingolani, A.; **Marchetti, F.**; Cassetta, A.; Barba, L. *J. Organomet. Chem.* **1998**, *566*, 187-201. **DOI:** 10.1016/S0022-328X(98)00692-5.

- 29) *Copper and calcium complexes with the anionic O₂-donor 4-tert-butylacetyl-3-methyl-1-phenylpyrazol-5-onato (Q⁻). Influence of hydrogen-bond interactions on lattice architecture in the crystal structures of [CuQ₂(H₂O)] and [CaQ₂(EtOH)].*
Marchetti, F.; Pettinari, C.; Cingolani, A.; Leonesi, D.; Drozdov, A.; Troyanov, S. I. *J. Chem. Soc. Dalton Trans.* **1998**, 3325-3333. DOI: 10.1039/a804768e.
- 30) *Heteropolymetallic compounds containing 1,1'-bis(diphenyl-phosphino)ferrocene (DPPF) and pyrazolate ligands: synthesis, spectroscopic characterization and reactivity. Crystal and molecular structure of [(DPPF)Pt(az)₂] [az = pyrazole (pzH) or 3,5-dimethylpyrazole] and [(DPPF)Pt(m-pz)₂CdI₂].*
Pettinari, C.; **Marchetti, F.;** Cingolani, A.; Troyanov, S. I.; Drozdov, A. *J. Chem. Soc. Dalton Trans.* **1998**, 3335-3342. DOI: 10.1039/a805432k.
- 31) *Coordination compounds derived from first-row transition metal salts. Synthesis, analytical, spectroscopic and structural characterization. Crystal structure of [{bis(3,4,5-trimethylpyrazol-1-yl)methane}ZnBr₂].*
Pettinari, C.; **Marchetti, F.;** Cingolani, A.; Leonesi, D.; Colapietro, M.; Margadonna, S. *Polyhedron* **1998**, 17, 4145-4154. DOI: 10.1016/S0277-5387(98)00222-8.
- 1999:**
- 32) *New co-ordination compounds derived from barium(II) and the anionic 4-tert-butylacetyl-3-methyl-1-phenylpyrazol-5-onate ligand (Q⁻). Crystal and molecular structure of [Ba₂Q₄(H₂O)₄], [Ba₂Q₄(Him)₄], [BaQ₂{tetraglyme}] (tetraglyme = 2,5,8,11,14-pentaoxapentadecane) and [BaQ₂(phen)₂].*
Pettinari, C.; **Marchetti, F.;** Cingolani, A.; Leonesi, D.; Troyanov, S. I.; Drozdov, A. *J. Chem. Soc. Dalton Trans.* **1999**, 1555-1562. DOI: 10.1039/a900463g.
- 33) *Tin(IV) and organotin(IV) derivatives of novel β-diketonates. Part IV. Triorganotin(IV) complexes of fluorinated 4-acyl-5-pyrazolones. Crystal structure of (1-(4-trifluoromethylphenyl)-3-methyl-4-acetylpyrazolon-5-ato)triphenyltin(IV).*
Marchetti, F.; Pettinari, C.; Cingolani, A.; Brocanelli, L.; Rossi, M.; Caruso, F. *J. Organomet. Chem.* **1999**, 580, 344-353. DOI: 10.1016/S0022-328X(98)01173-5.
- 34) *An unusual configuration for a bis(4-acylpyrazolon-5-ate)diorganotin species.*
Caruso, F.; Rossi, M.; **Marchetti, F.;** Pettinari, C. *Organometallics* **1999**, 18, 2398-2400. DOI: 10.1021/om990170o.
- 35) *New volatile heterocyclic metal diketonates for MOCVD.*
Drozdov, A.; Troyanov, S.; Fedorchenko, O.; Battiston, G.; Pettinari, C.; **Marchetti, F.;** Cingolani, A. *J. Phys. IV* **1999**, 9, PR8, 929-934. DOI: 10.1051/jp4:19998117.
- 36) *Synthesis and structural systematics of mixed triphenylphosphine/imidazole base adducts of silver(I) oxanion salts.*
Cingolani, A.; Effendy; **Marchetti, F.;** Pettinari, C.; Skelton, B. W.; White, A. H. *J. Chem. Soc. Dalton Trans.* **1999**, 4047-4055. DOI: 10.1039/a906624a.
- 37) *Group 12 metal complexes of tetradentate N₂O₂-schiff-base ligands incorporating pyrazole. Synthesis, characterisation and reactivity toward S-donors, N-donors, copper and tin acceptors.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cingolani, A.; Leonesi, D.; Lorenzotti, A. *Polyhedron* **1999**, 18, 3041-3050. DOI: 10.1016/S0277-5387(99)00230-2.
- 38) Pettinari, C.; **Marchetti, F.;** Rafaiiani G. "Heteronuclear NMR applications (As, Sb, Bi)" in *Encyclopedia of Spectroscopy and Spectrometry*, J. C. Lindon, G. E. Tranter and J. L. Holmes Eds., Academic Press Ltd, **1999**, London, United Kingdom, p. 685-690. ISBN 10: 0-12-226680-3.
ISBN 13: 978-0-12-226680-5.

2000:

- 39) *Influence of sterically demanding groups on the structure and stability in the solid and solution state of (acylpyrazolonate)bis(phosphine)copper(I) derivatives.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cingolani, A.; Camalli, M.; Spagna, R. *Inorg. Chim. Acta* **2000**, 299, 65-79. DOI: 10.1016/S0020-1693(99)00463-6.
- 40) *Novel Bis(acylpyrazolonato)cadmium(II) Derivatives and Their Reactivity Toward Aromatic and Aliphatic N₂-donor Ligands.*
Pettinari, C.; **Marchetti, F.;** Pettinari, R.; Cingolani, A.; Troyanov, S.; Drozdov, A. *J. Chem. Soc. Dalton Trans.* **2000**, 831-836. DOI: 10.1039/a908913f.
- 41) *Synthesis, structure and antitumor activity of a novel tetranuclear titanium complex.*
Caruso, F.; Rossi, M.; Tanski, J.; Sartori, R.; Sariego, R.; Moya, S.; Diez, S.; Navarrete, E.; Cingolani, A.; **Marchetti, F.;** Pettinari, C. *J. Med. Chem.* **2000**, 43, 3665-3670. DOI: 10.1021/jm990539b.
- 42) *On the interaction of acylpyrazolonates with zinc(II) acceptors: the role of ancillary ligands.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Arriva, D.; Troyanov, S.; Drozdov, A. *Inorg. Chim. Acta* **2000**, 307, 97-105. DOI: 10.1016/S0020-1693(00)00203-6.
- 43) *Unexpected synthesis of (bis(diphenylphosphinoyl)ethane).2(2,2-dyhydroperoxy propane) 1:2 adduct: a new route to stable organic dihydroperoxides.*
Pettinari, C.; **Marchetti, F.;** Cingolani, A.; Drozdov, A.; Troyanov, S. I. *Chem. Commun.* **2000**, 1901-1902. DOI: 10.1039/b005221n.
- 44) *Synthesis, characterization and in vitro antitumor activity of organotin(IV) compounds of 4-acyl-5-pyrazolone.*
Li, Q.-S.; Li, T.-F.; Yang, H.Y.; Wang, M.-Y.; Huang, J.I.-J.; Pettinari, C.; **Marchetti, F.** *Yaoxue Xuebao*, **2000**, 35, 659-662. ISSN: 05134870. (Chemical Abstract: **2001**, 134, 237574).

2001:

- 45) *Organotin(IV) derivatives containing bis(diphenylphosphine)- and bis(diphenylphosphineoxo)-alkanes.*
Pettinari, C.; **Marchetti, F.;** Cingolani, A.; Pettinari, R.; Drozdov, A.; Troyanov, S. I. *Inorg. Chim. Acta* **2001**, 312, 125-132. DOI: 10.1016/S0020-1693(00)00358-3.
- 46) *Structure and volatility of copper complexes containing pyrazolyl-based ligands.*
Pettinari, C.; **Marchetti, F.;** Santini, C.; Pettinari, R.; Drozdov, A.; Troyanov, S. I.; Battiston, G. A.; Gerbasi, R. *Inorg. Chim. Acta* **2001**, 315, 88-95. DOI: 10.1016/S0020-1693(01)00330-9.
- 47) *Syn-Anti conversion in octahedral bis(β -diketonato)diorganotin(IV) derivatives containing fluorinated 4-acyl-5-pyrazolonato donors.*
Pettinari, C.; **Marchetti, F.;** Cingolani, A.; Gindulyte, A.; Massa, L.; Rossi, M.; Caruso, F. *Eur. J. Inorg. Chem.* **2001**, 2171-2180. DOI: 10.1002/1099-0682(200108)2001:8<2171.
- 48) *Interaction of Rh(I) with a new polydentate O₄N-donor pyrazolone able to form mononuclear, dinuclear and heterobimetallic compounds.*
Pettinari, C.; **Marchetti, F.;** Drozdov, A.; Vertlib, V.; Troyanov, S. I. *Inorg. Chem. Commun.*, **2001**, 4, 290-293. DOI: 10.1016/S1387-7003(01)00187-3.
- 49) *Zinc and cadmium derivatives containing several 4-acyl-5-pyrazolonate donors and additional O- or N-donor ancillary ligands.*
Marchetti, F. *Main Group Metal Chem.* **2001**, 24, 257-266. DOI: 10.1515/MGMC.2001.24.5.257.
- 50) *The interaction of organotin(IV) acceptors with a benzoic acid containing two pyrazolone groups.*
Pettinari, C.; **Marchetti, F.;** Pettinari, R.; Martini, D.; Drozdov, A.; Troyanov, S. I. *J. Chem. Soc. Dalton Trans.* **2001**, 1790-1797. DOI: 10.1039/b100988p.

- 51) *Synthesis and characterization of tin(IV) and organotin(IV) derivatives of 2-[[[2-hydroxyphenyl]imino]methyl]phenol.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Martini, D.; Drozdov, A.; Troyanov, S. I. *Inorg. Chim. Acta* **2001**, 325, 103-114. DOI: 10.1016/S0020-1693(01)00654-5.
- 52) *New volatile polyazolyborates of copper(I) for MOCVD.*
Drozdov, A.; Troyanov, S. I.; Pettinari, C.; **Marchetti, F.**; Santini, C.; Pettinari, R.; Battiston, G. A.; Gerbasi, R. *J. Phys. IV* **2001**, 11, PR3, 585-592. DOI: 10.1051/jp4:2001374.
- 53) *Interaction of Diorganotin(IV) Derivatives of Azoles with Nucleotides. Aqueous and Solid-State Coordination Chemistry of $[R_2SnX_2(N_2\text{-donor})]$ species with Nucleotides.*
Pettinari, C.; **Marchetti, F.**; Li, Q. *Main Group Metal Chem.* **2001**, 24, 53-59. DOI: 10.1515/MGMC.2001.24.1.53.

2002:

- 54) *Organotin(IV) derivatives of novel β -diketones. Part V. Synthesis and characterization of di- and triorganotin(IV) derivatives of 4-acyl-5-pyrazolones modified in position 3 of the pyrazole. Crystal structure of (1,3-diphenyl-4-benzoyl-pyrazolon-5-ato)triphenyltin(IV).*
Marchetti, F.; Pettinari, C.; Cingolani, A.; Pettinari, R.; Rossi, M.; Caruso, F. *J. Organomet. Chem.* **2002**, 645, 134-145. DOI: 10.1016/S0022-328X(01)01333-X.
- 55) *First structurally characterised silver(I) derivatives with non fluorinated β -diketones.*
Cingolani, A.; Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chem.* **2002**, 41, 1151-1161. DOI: 10.1021/ic0109391.
- 56) *Silver(I) derivatives with new functionalised acylpyrazolonates.*
Cingolani, A.; Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2002**, 329, 100-112. DOI: 10.1016/S0020-1693(01)00812-X.
- 57) *Synthesis, structure and luminescence properties of new rare earth metal complexes with 1-phenyl-3-methyl-4-acylpyrazol-5-ones.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Drozdov, A.; Troyanov, S. I.; Voloshin, A. I.; Shavaleev, N. M. *J. Chem. Soc. Dalton Trans.* **2002**, 1409-1415. DOI: 10.1039/b108058j.
- 58) *A novel configuration of a benzoylacetato-diorganotin species is modified by an electron withdrawing substituent on tin. Synthesis, IR and NMR spectroscopy, structure and ab-initio studies.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Gindulyte, A.; Massa, L.; Rossi, M.; Caruso, F. *Eur. J. Inorg. Chem.* **2002**, 1447-1455. DOI: 10.1002/1099-0682(200206)2002:6<1447.
- 59) *The reactivity of new (1,5-cyclooctadiene)rhodium acylpyrazolonates towards N- and P-donor ligands: X-ray structures of $[Rh(1,5-COD)Q_5]$, $[Rh(1,5-COD)(phen)]Q_5 \cdot 0.5H_2O$ (HQ_5 = 1-phenyl-3-methyl-4-(2-thienoyl)-pyrazol-5-one) and $[Rh(1,5-COD)Br]_2$.*
Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Bianchini, G.; Drozdov, A.; Vertlib, V.; Troyanov, S. I. *J. Organomet. Chem.* **2002**, 651, 5-14. DOI: 10.1016/S0022-328X(02)01122-1.
- 60) *The interaction of organotin(IV) acceptors with 1,4-bis(5-hydroxy-1-phenyl-3-methyl-1H-pyrazol-4-yl)butane-1,4-dione.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Cingolani, A.; Drozdov, A.; Troyanov, S. I. *J. Chem. Soc. Dalton Trans.* **2002**, 188-194. DOI: 10.1039/b106665j.
- 61) *A new family of ionic dinuclear $(imH_2)_2[Sr_2(Q)_6]$ compounds (imH = imidazole; QH = 1-phenyl-3-methyl-4-acylpyrazol-5-one).*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cingolani, A.; Drozdov, A.; Troyanov, S. I. *J. Chem. Soc. Dalton Trans.* **2002**, 2616-2623. DOI: 10.1039/b200189f.
- 62) *Complexes of some d and f elements with new 4-acylpyrazol-5-ones: synthesis and study.*

Drozdov, A.; Vertlib, V. A.; Timokhin, I.; Troyanov, S. I.; Pettinari, C.; **Marchetti, F.** *Russian J. Coord. Chem.* **2002**, 28, 259-263. DOI: 10.1023/A:1015220003972.

2003:

- 63) *Lanthanide metal complexes containing the first structurally characterized β -diketonate acid stabilized by hydrogen bonding.*
Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Drozdov, A.; Troyanov, S.; Timokhin, I.; Vertlib, V. *Inorg. Chem. Commun.* **2003**, 6, 48-51. DOI: 10.1016/S1387-7003(02)00678-0.
- 64) *Synthesis and spectroscopic characterization of silver(I) complexes with the bis(1,2,4-triazol-1-yl)alkane ligand $\text{tz}_2(\text{CH}_2)$. X-ray structures of two- and three-dimensional coordination polymers.*
Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chem.* **2003**, 42, 112-117. DOI: 10.1021/ic025981q.
- 65) *Characterization of diorganotin(IV) complexes with captopril. The first crystallographically authenticated metal complex of this anti-hypertensive agent.*
Jancovics, H.; Pettinari, C.; **Marchetti, F.**; Kamu, E.; Nagy, L.; Troyanov, S. I.; Pellerito, L. J. *Inorg. Biochem.* **2003**, 97, 370-376. DOI: 10.1016/S0162-0134(03)00309-X.
- 66) *Antitumor activity of the mixed phosphine gold species chlorotriphenylphosphine-1,3-bis(diphenylphosphino)propanegold(I).*
Caruso, F.; Rossi, M.; Tanski, J.; Pettinari, C.; **Marchetti, F.** *J. Med. Chem.* **2003**, 46, 1737-1742. DOI: 10.1021/jm0204690.
- 67) *The problem of the storage of alkaline earth precursors containing 2,2,6,6-tetramethylheptanedione-3,5.*
Vertlib, V.; Drozdov, A.; Timokhin, I.; Troyanov, S.; Pettinari, C.; **Marchetti, F.**; Min, Y.-S.; Kim, D. *Proc. Electrochem. Soc.* **2003**, 08, 128-135.
- 68) *Synthesis, spectroscopic and structural characterisation of Cd(II) and Zn(II) derivatives of tris(3,4,5-trimethylpyrazol-1-yl)methane.*
Cingolani, A.; Martini, D.; **Marchetti, F.**; Pettinari, C.; Ricciutelli, M.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2003**, 350, 641-650. DOI: 10.1016/S0020-1693(03)00111-7.
- 69) *Synthesis and Structural Characterization of Mixed-Sandwich Complexes of Rhodium(III) and Iridium(III) with Cyclopentadienyl and Hydrotris(pyrazolyl)borate Ligands.*
Carmona, E.; Cingolani, A.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Organometallics* **2003**, 22, 2820-2826. DOI: 10.1021/om020930m.
- 70) *(4-Acyl-5-pyrazolonato)titanium Derivatives: Oligomerization, Hydrolysis, Voltammetry and DFT Study.*
Caruso, F.; Massa, L.; Gindulyte, A.; Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Ricciutelli, M.; Costamagna, J.; Canales, J. C.; Tanski, J.; Rossi, M. *Eur. J. Inorg. Chem.* **2003**, 3221-3232. DOI: 10.1002/ejic.200300135.
- 71) *The role of reaction medium on the coordination environment of terbium in complexes with 4-acylpyrazol-5-ones.*
Pettinari, C.; Pettinari, R.; **Marchetti, F.**; Drozdov, A.; Timokhin, I.; Semenov, S.; Troyanov, S. *Inorg. Chem. Commun.* **2003**, 6, 1423-1425. DOI: 10.1016/j.inoche.2003.08.028.
- 72) *Reactivity of rhodium- β -diketonato cylooctadiene derivatives with mono- and di-phosphines. Synthesis, structural and spectroscopic characterization of Rh(I) and Rh(III) species containing unsymmetrical β -diketonate and P-donor ligands.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Pizzabiocca, A.; Drozdov, A.; Troyanov, S. I.; Vertlib, V. *J. Organomet. Chem.* **2003**, 688, 216-226. DOI: 10.1016/j.jorganchem.2003.09.021

- 73) *Synthesis, spectroscopic, and structural characterization of copper(I) and silver(I) derivatives containing poly(azolyl)borate or poly(azolyl)alkane ligands.*
Pettinari, C.; Cingolani, A.; **Marchetti, F.**; Santini, C.; Pettinari, R.; Pellei, M.; Gioia Lobbia, G.; Martini, D. *Abstract of Papers*, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, **2003**, INOR-323.
- 74) *From mono- to poly-nuclear heteroleptic alkaline earth-titanium complexes containing 2,2,6,6-tetramethylheptane-3,5-dionate (thd) and pyrazole (Hpz) or 3,5-dimethylpyrazole (Hpz*) ligands. Synthesis, spectroscopic and structural characterization of [Ba(thd)₂(Hpz)₂]₂, [Sr(thd)₂(Hpz*)₃], [Ba(thd)₂(Hpz*)₂]₂ and the heterometallic {[Ti(thd)₂(μ₃-O)(μ-Bu^tC(O)CH₂CH₂O)Sr(thd) (μ-Bu^tCOO)]₂Sr(Hpz)₂}.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Vertlib, V.; Drozdov, A.; Timokin, I.; Troyanov, S.; Min, Y.-S.; Kim, D. *Inorg. Chim. Acta* **2003**, 355, 157-167. DOI: 10.1016/S0020-1693(03)00276-7.
- 75) Pettinari, C.; **Marchetti, F.**; Drozdov, A. *β-Diketones and Related Ligands in Comprehensive Coordination Chemistry II*, J. A. McCleverty and T. J. Meyer Editors, Elsevier Ltd., **2003**, Vol. 1, chapter 1.6, pp 97-115. ISBN: 978-0-08-043748-4.
- 76) Pettinari, C.; **Marchetti, F.**; Drozdov, A. *Higher Denticity Ligands in Comprehensive Coordination Chemistry II*, J. A. McCleverty and T. J. Meyer Editors, Elsevier Ltd., **2003**, Vol. 1, chapter 1.11, pp 211-251. ISBN: 978-0-08-043748-4.
- 77) Pettinari, C.; **Marchetti, F.**; Martini, D. *Metal Complexes as Hydrogenation Catalysts in Comprehensive Coordination Chemistry II*, J. A. McCleverty and T. J. Meyer Editors, Elsevier Ltd., **2003**, Vol. 9, chapter 9.2, pp 75-139. ISBN: 978-0-08-043748-4.

2004:

- 78) *A 4-acyl-5-pyrazolone Ligand (HQ) in N-unidentate Coordination Mode in a Rh(CO)₂Cl(HQ)-type Complex.*
Cingolani, A.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chem. Commun.* **2004**, 7, 235-237. DOI: 10.1016/j.inoche.2003.11.009.
- 79) *Copper and Silver Derivatives of Scorpionates and related Ligands.*
Pettinari, C.; Cingolani, A.; Gioia Lobbia, G.; **Marchetti, F.**; Martini, D.; Pellei, M.; Pettinari, R.; Santini, C. *Polyhedron* **2004**, 23, 451-469. DOI: 10.1016/j.poly.2003.11.033.
- 80) *Synthesis and spectroscopic characterization (IR, ¹H and ³¹P NMR, electrospray ionization mass) of mono-, di-, tetra- and poly-meric complexes of silver(I) with diphosphine ligands: X-ray crystal structures of AgNO₂:(Ph₂PCH₂PPh₂) (1:1)₂, AgNO₂:(Ph₂P(CH₂)₃PPh₂) (1:1)₂, AgNO₂:(Ph₂PCH=CHPPh₂) (2:1)₂ and AgNO₂:{p-tolyl)₂P(C₁₀H₆)₂P(p-tolyl)₂} (1:1).*
Effendy, Hanna, J. V.; **Marchetti, F.**; Martini, D.; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2004**, 357, 1523-1537. DOI: 10.1016/j.ica.2003.11.010.
- 81) *(Bis(1,2,4-triazol-1-yl)methane)silver(I) Phosphino Complexes: Structures and Spectroscopic Properties of Mixed-Ligand Coordination Polymers.*
Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Ricciutelli, M.; Skelton, B. W.; White, A. H. *Inorg. Chem.* **2004**, 43, 2157-2165. DOI: 10.1021/ic0353413.
- 82) *Silver Coordination Chemistry of a New Versatile "Janus"-type N₂O₂-Bichelating Donor, Formation of an Unprecedented Supramolecular Network of Binuclear Silver Building Blocks Containing a Five-Coordinate β-Diketonate, and Isolation of Unexpected Silver-Tin-Silver Heterotrimetallic Complexes from Silver Metathesis Reactions.*
Cingolani, A.; Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chem.* **2004**, 43, 4387-4399. DOI: 10.1021/ic0497376.

- 83) *Tin(II) and Lead(II) 4-Acyl-5-pyrazolonates: Synthesis, Spectroscopic and X-ray Structural Characterization.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Cingolani, A.; Rivarola, E.; Phillips, C.; Tanski, J.; Rossi, M.; Caruso, F. *Eur. J. Inorg. Chem.* **2004**, 3484-3497. DOI: 10.1002/ejic.200400225.
- 84) *Syntheses, structural and spectroscopic investigation (IR, NMR and luminescence) of new terbium and europium acylpyrazolonates.*
Pettinari, C.; **Marchetti, F.**; Cingolani, A.; Drozdov, A.; Timokhin, I.; Troyanov, S. I.; Tsaryuk, V.; Zolin, V. *Inorg. Chim. Acta* **2004**, 357, 4181-4190. DOI: 10.1016/j.ica.2004.06.024.
- 85) *Syntheses and spectroscopic and structural characterization of silver(I) complexes containing tris(isobutyl)phosphine and poly(azol-1-yl)borates.*
Effendy, Gioia Lobbia, G.; **Marchetti, F.**; Pellei, M.; Pettinari, C.; Pettinari, R.; Santini, C.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2004**, 357, 4247-4256. DOI: 10.1016/j.ica.2004.06.020.

2005:

- 86) *Barium acylpyrazolonate derivatives stabilized by O- and N-donor ligands: synthesis, spectral and structural characterization.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cingolani, A.; Drozdov, A.; Vertlib, V.; Troyanov, S. *Inorg. Chim. Acta* **2005**, 358, 1955-1962. DOI: 10.1016/j.ica.2004.12.010.
- 87) *Tin(IV) and organotin(IV) derivatives of bis(pyrazolyl)acetate: Synthesis, spectroscopic characterization and behaviour in solution. X-ray single crystal study of bis(pyrazol-1-yl)acetatotriiodotin(IV) [SnI₃(bdmpza)].*
Marchetti, F.; Pellei, M.; Pettinari, C.; Pettinari, R.; Rivarola, E.; Santini, C.; Skelton, B. W.; White, A. H. *J. Organomet. Chem.* **2005**, 690, 1878-1888. DOI: 10.1016/j.jorganchem.2005.01.067.
- 88) *Synthesis and spectroscopic and X-ray structural characterization of R₂Sn^{IV}-oxydiacetate and –iminodiacetate complexes.*
Di Nicola, C.; Galindo, A.; Hanna, H. V.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Rivarola, E.; Skelton, B. W.; White, A. H. *Inorg. Chem.* **2005**, 44, 3094-3102. DOI: 10.1021/ic048240t.
- 89) *Synthesis and characterization of silver(I) derivatives containing acylpyrazolonate and phosphino ligands: X-ray crystal structures of monomeric [Ag(Q^{nPe})(PPh₃)₂] and of dimeric [{Ag(Q^{nPe})(PiBu₃)₂}₂] (Q^{nPe} = 1-phenyl-3-methyl-4-tert-butylacetylpyrazolon-5-ato).*
Lorenzotti, A.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2005**, 358, 3190-3200. DOI: 10.1016/j.ica.2005.04.017.
- 90) *Syntheses, Structures, and Reactivity of new Pentamethylcyclopentadienyl-Rhodium(III) and –Iridium(III) 4-Acyl-5-Pyrazolonate Complexes.*
Pettinari, C.; Pettinari, R.; Fianchini, M.; **Marchetti, F.**; Skelton, B. W.; White, A. H. *Inorg. Chem.* **2005**, 44, 7933-7942. DOI: 10.1021/ic050985r.
- 91) *Novel molecular precursors for the MOCVD of Ba_{1-x}Sr_xTiO₃ thin films.*
Battiston, G. A.; Gerbasi, R.; Carta, G.; **Marchetti, F.**; Paoletti, M.; Pettinari, C.; Rodriguez, A.; Barreca, D.; Maragno, C. *Proc. Electrochem. Soc.* **2005**, 09, 791-798.
- 92) *Acylpyrazolone ligands: synthesis, structures, metal coordination chemistry and applications.*
Marchetti, F.; Pettinari, C.; Pettinari, R. *Coord. Chem. Rev.* **2005**, 249, 2909-2945. DOI: 10.1016/j.ccr.2005.03.013.

2006:

- 93) *Copper(I) monophosphine complexes with functionalized acylpyrazolonate ligands. Syntheses of heterobimetallic Cu-Zn and Cu-Ru adducts.*

- Cingolani, A.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; Somers, N.; White, A. H. *Polyhedron* **2006**, 25, 124-133. DOI:10.1016/j.poly.2005.07.020.
- 94) *Synthesis, Spectroscopy (IR, multinuclear NMR, ESI-MS), Diffraction, Density Functional Study and in vitro antiproliferative activity of bis(4-acyl-5-pyrazolonato)dihalotin(IV) compounds on 5 melanoma cell lines.*
Pettinari, C.; Caruso, F.; Zaffaroni, N.; Villa, R.; **Marchetti, F.**; Pettinari, R.; Phillips, C.; Tanski, J.; Rossi, M. J. *Inorg. Biochem.* **2006**, 100, 58-69. DOI:10.1016/j.jinorgbio.2005.10.002.
- 95) *Synthesis, spectroscopy and structural characterization of silver(I) complexes containing unidentate N-donor azole-type ligands.*
Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Pizzabiocca, A.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2006**, 359, 1504-1512. DOI: 10.1016/j.ica.2005.10.016.
- 96) *Structural characterizations of some adducts of silver(I) nitrate and perchlorate with some cyclic di- (or tri-) ene organic ligands.*
Lim, K. C.; **Marchetti, F.**; Pettinari, C.; Skelton, B. W.; Smith, B. J.; White, A. H. *Inorg. Chim. Acta* **2006**, 359, 1594-1602. DOI: 10.1016/j.ica.2005.10.014.
- 97) *Innovative second-generation Ba and Sr precursors for chemical vapour deposition of Ba_{1-x}Sr_xTiO₃ thin films.*
Battiston, G. A.; Gerbasi, R.; Carta, G.; **Marchetti, F.**; Pettinari, C.; Rodriguez, A.; Barreca, D.; Maragno, C.; Tondello, E. J. *Electrochem. Soc.* **2006**, 153, F35-F38. DOI: 10.1149/1.2160441.
- 98) *The imidazole role in strontium β-diketonate complexes formation.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cingolani, A.; Gobetto, R.; Chierotti, M. R.; Drozdov, A.; Troyanov, S. I. *Inorg. Chem.* **2006**, 45, 3074-3085. DOI: 10.1021/ic051972g.
- 99) *A new rare-earth metal acylpyrazolonate containing the Zundel ion H₅O₂⁺ stabilized by string hydrogen bonding.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Drozdov, A.; Semenov, S.; Troyanov, S. I.; Zolin, V. *Inorg. Chem. Commun.* **2006**, 9, 638-641. DOI:10.1016/j.inoche.2006.03.008.
- 100) *Syntheses, spectroscopic characterization and X-ray structural studies of lanthanide complexes with adamantly substituted 4-acylpyrazol-5-one.*
Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Natanti, P.; Drozdov, A.; Semenov, S.; Troyanov, S. I.; Zolin, V. *Inorg. Chim. Acta* **2006**, 359, 4063-4070. DOI:10.1016/j.ica.2006.04.045.

2007:

- 101) *Synthesis, Reactivity, Spectroscopic Characterization, X-ray Structures, PGSE, and NOE NMR Studies of (η⁵-C₅Me₅)-Rhodium and -Iridium Derivatives Containing Bis(pyrazolyl)alkane Ligands.*
Pettinari, C.; Pettinari, R.; **Marchetti, F.**; Macchioni, A.; Zuccaccia, D.; Skelton, B. W.; White, A. H. *Inorg. Chem.* **2007**, 46, 896-906. DOI: 10.1021/ic061928g.
- 102) *Synthesis, and structural characterization of adducts of silver(I)oxyanion salts, AgX (X = ClO₄, NO₃), with Ph₂E(CH₂)_xEPh₂(‘dpex’; E = P, As; x = 1–4) and oligodentate aromatic N-bases derivative of 2,2'-bipyridyl, ‘L’, AgX:dpex:L (2:1:2).*
Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2007**, 360, 1388–1413. DOI: 10.1016/j.ica.2006.07.016.
- 103) *Synthesis, and structural characterization of adducts of silver(I)oxyanion salts, AgX (X = ClO₄, NO₃), with Ph₂E(CH₂)_xEPh₂(‘dpex’; E = P, As; x = 1–3) and oligodentate aromatic N-bases derivative of 2,2'-bipyridyl, ‘L’, AgX:dpex:L (2:1:2) or (1:1:1).*
Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2007**, 360, 1414–1423. DOI: 10.1016/j.ica.2006.07.018.

- 104) *Synthesis, and structural characterization of adducts of silver(I)perchlorate with PR_3 ($R = Ph, cy, o\text{-tolyl}$) and oligodentate aromatic bases derivative of 2,2'-bipyridyl, L, $AgClO_4 \cdot PR_3 \cdot L$ (1:1:1).*
Effendy, **Marchetti, F.**; Pettinari, C.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2007**, 360, 1424–1432. DOI: 10.1016/j.ica.2006.07.004.
- 105) *Synthesis, and structural characterization of adducts of silver(I)nitrate with ER_3 ($E = P, As, Sb$; $R = Ph, cy, o\text{-tolyl}, mes$) and oligodentate aromatic bases derivative of 2,2'-bipyridyl, L, $AgNO_3 \cdot ER_3 \cdot L$ (1:1:1).*
Di Nicola, C.; Effendy, **Marchetti, F.**; Pettinari, C.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2007**, 360, 1433–1450. DOI: 10.1016/j.ica.2006.07.017.
- 106) *Synthesis, and structural characterization of adducts of silver(I) carboxylate salts AgX ($X = CF_3COO, CH_3COO$) with ER_3 ($E = P, As$; $R = Ph, cy, o\text{-tolyl}$) and oligodentate aromatic bases derivative of 2,2'-bipyridyl, L, $AgX \cdot ER_3 \cdot L$ (1:1:1).*
Effendy, **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2007**, 360, 1451–1465. DOI: 10.1016/j.ica.2006.07.015.
- 107) *Synthesis, spectroscopic and structural characterization of the reaction products of quaternary cationic 2,2'-bipyridylium ligand bromide salts with metal halides.*
Dinica, R.; **Marchetti, F.**; Pettinari, C.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta* **2007**, 360, 2609–2614. DOI: 10.1016/j.ica.2006.12.037.
- 108) *Synthesis, Molecular Structure (X-ray and DFT), and Solution Behavior of Titanium 4-Acyl-5-pyrazolonates. Correlations with Related Antitumor β -Diketonato Derivatives.*
Caruso, F.; Pettinari, C.; **Marchetti, F.**; Natanti, P.; Phillips, C.; Tanski, J.; Rossi, M. *Inorg. Chem.* **2007**, 46, 7553–7560. DOI: 10.1021/ic700935x.
- 109) *Areneruthenium(II) 4-Acyl-5-pyrazolonate Derivatives: Coordination Chemistry, Redox Properties, and Reactivity.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cerquetella, A.; Cingolani, A.; Chan, E. J.; Kozawa, K.; Skelton, B. W.; White, A. H.; Wanke, R.; Kuznetsov, M. L.; Martins, L. M. D. R. S.; Pombeiro, A. J. L. *Inorg. Chem.* **2007**, 46, 8245–8257. DOI: 10.1021/ic700394r.

2008:

- 110) Pettinari, C.; **Marchetti, F.** *Chemical and biotechnological developments in organotin cancer chemotherapy*, in "Tin Chemistry – Fundamentals, Applications and Frontiers" M. Gielen, A. Davies, K. Pannell, E. Tiekink Editors, John Wiley & Sons, **2008**, Chapter 4.4, p. 454-468. ISBN: 978-0-470-51771-0.
- 111) *First direct assembly of molecular helical complexes into a coordination polymer.*
Semenov, S. N.; Rogachev, A. Yu.; Eliseeva, S. V.; Pettinari, C.; **Marchetti, F.**; Drozdov, A. A.; Troyanov, S. I. *Chem. Commun.* **2008**, 1992-1994. DOI: 10.1039/b719171e.
- 112) *Chemical behavior and in vitro activity of mixed phosphine gold(I) compounds on melanoma cell lines.*
Caruso, F.; Pettinari, C.; Paduano, F.; Villa, R.; **Marchetti, F.**; Monti, E.; Rossi, M. *J. Med. Chem.* **2008**, 51, 1584-1591. DOI: 10.1021/jm700978a.
- 113) *Synthesis, Characterization, Spectroscopic and Photophysical Properties of New $[Cu(NCS)\{(L-N)_2 \text{ or } (L'-N^{\wedge}N)\}(PPh_3)]$ Complexes ($L-N, L'-N^{\wedge}N = \text{Aromatic Nitrogen Base}$).*
Pettinari, C.; Di Nicola, C.; **Marchetti, F.**; Pettinari, R.; Skelton, B. W.; Somers, N.; White, A. H.; Robinson, W. T.; Chierotti, M. R.; Gobetto, R.; Nervi, C. *Eur. J. Inorg. Chem.* **2008**, 1974-1984. DOI: 10.1002/ejic.200701236.
- 114) *Dinuclear Copper(II) Trispyrazolylborate Derivatives with Bridging Pyrazolate Anions.*
Di Nicola, C.; **Marchetti, F.**; Monari, M.; Pandolfo, L.; Pettinari, C. *Inorg. Chem. Commun.* **2008**, 11, 665-668. DOI: 10.1016/j.inoche.2008.02.034.

- 115) *Synthesis and Intramolecular and Interionic Structural Characterization of Half-Sandwich (Arene)Ruthenium(II) Derivatives of bis(Pyrazolyl)Alkanes.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cerquetella, A.; Di Nicola, C.; Macchioni, A.; Zuccaccia, D.; Monari, M.; Piccinelli, F. *Inorg. Chem.* **2008**, 47, 11593–11603. DOI: 10.1021/ic801150c.

2009:

- 116) *Sviluppo Storico del Concetto di Equilibrio Chimico.*
Marchetti, F.; Pettinari, R.; Pettinari, C.; Cingolani, A.; Di Nicola, C. *CnS Chimica nella Scuola*, **2009**, 31, 18-29.
- 117) *Utilizzo di Analogie nell’Insegnamento del Concetto di Equilibrio.*
Pettinari, R.; Pettinari, C.; **Marchetti, F.;** Cingolani, A.; Di Nicola, C. *CnS Chimica nella Scuola*, **2009**, 31, 85-96.
- 118) *Magnesium(II) polypyrazolylborate derivatives - synthesis, spectral and structural studies.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta*, **2009**, 362, 4480-4485. DOI: 10.1016/j.ica.2009.05.006
- 119) *Switching between k^2 and k^3 -bis(azol-1-yl)acetate ligands by tuning reaction conditions. Synthesis, spectral, electrochemical, structural and theoretical studies on areneRu(II) derivatives of bis(azol-1-yl)acetate ligands.*
Marchetti, F.; Pettinari, C.; Cerquetella, A.; Cingolani, A.; Pettinari, R.; Monari, M.; Wanke, R.; Kuznetsov, M. L.; Pombeiro, A. J. L. *Inorg. Chem.*, **2009**, 48, 6096-6108. DOI: 10.1021/ic900463b.
- 120) *A sterically hindered tetrakis(pyrazolyl)borate: synthesis, characterization and coordinative behaviour.*
Pettinari, C.; **Marchetti, F.;** Pettinari, R.; Marinelli, A.; Crispini, A.; Bellusci, A. *Inorg. Chim. Acta*, **2009**, 362, 4593-4598. DOI:10.1016/j.ica.2009.05.026.
- 121) *Inhibitory effect of β -diketones and their metal complexes on TNF- α induced expression of ICAM-1 on human endothelial cells*
Caruso, F.; Pettinari, C.; **Marchetti, F.;** Rossi, M.; Opazo, C.; Kumar, S.; Balwani, S.; Ghosh, B. *Bioorg. Med. Chem.*, **2009**, 17, 6166-6172. DOI:10.1016/j.bmc.2009.07.064.

2010:

- 122) *Syntheses, structures, and spectroscopy of uni- and bi-dentate nitro base complexes of silver(I) trifluoromethanesulfonate.*
Di Nicola, C.; Effendy, **Marchetti, F.;** Nervi, C.; Pettinari, C.; Robinson, W. T.; Sobolev, A. N.; White, A. H. *Dalton Trans.*, **2010**, 39, 908-922. DOI: 10.1039/b913173f.
- 123) *Non-classical anticancer agents: synthesis and biological evaluation of zinc(II) heteroleptic complexes*
Liguori, P. F.; Valentini, A.; Palma, M.; Bellusci, A.; Bernardini, S.; Ghedini, M.; Panno, M. L.; Pettinari, C.; **Marchetti, F.;** Crispini, A.; Pucci, D. *Dalton Trans.*, **2010**, 39, 4205 - 4212. DOI: 10.1039/b922101h.
- 124) *Synthesis and characterization of novel oxovanadium(IV) complexes with 4-acyl-5-pyrazolone donor ligands: Evaluation of their catalytic activity for the oxidation of styrene derivatives*
Marchetti, F.; Pettinari, C.; Di Nicola, C.; Pettinari, R.; Crispini, A.; Crucianelli, M.; Di Giuseppe, A. *Appl. Catal. A General*, **2010**, 378, 211-220. DOI: 10.1016/j.apcata.2010.02.022.
- 125) *L’ Equilibrio Chimico. Rivisitazione del Principio di Le Chatelier.*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Di Nicola, C.; Cingolani, A. *CnS Chimica nella Scuola*, **2010**, 32, 36-46.

- 126) *Synthesis, structural and spectroscopic characterization and biomimetic properties of new copper, manganese, zinc complexes: Identification of possible superoxide-dismutase mimics bearing hydroxyl radical generating/scavenging abilities*
Lupidi, G.; **Marchetti, F.**; Masciocchi, N.; Reger, D. L.; Tabassum, S.; Astolfi, P.; Damiani, E.; Pettinari, C. *J. Inorg. Biochem.*, **2010**, 104, 820-830. DOI:10.1016/j.jinorgbio.2010.03.013
- 127) *Syntheses, structures, and spectroscopy of mono- and polynuclear lanthanide complexes containing 4-acyl-pyrazolones and diphosphineoxide*
Marchetti, F.; Pettinari, C.; Pizzabiocca, A.; Drozdov, A. A.; Troyanov, S. I.; Zhuravlev, C. O.; Semenov, S. N.; Belousov, Y. A.; Timokhin, I. G. *Inorg. Chim. Acta*, **2010**, 363, 4038–4047. DOI: 10.1016/j.ica.2010.08.006
- 128) *Synthesis and Coordination Chemistry of two N₂-donor chelating di(indazolyl)methane ligands: structural characterization and comparison of their metal chelation aptitudes*
Pettinari, C.; Marinelli, A.; **Marchetti, F.**; Ngoune, J.; Galindo, A.; Álvarez, E.; Gómez, M. *Inorg. Chem.*, **2010**, 49, 10543–10556. DOI: 10.1021/ic101577k
- 129) *Solid-State ¹⁵N CPMAS NMR and Computational Analysis of Ligand Hapticity in Rhodium(η -diene) Poly(pyrazolyl)borate complexes*
Pettinari, R.; Pettinari, C.; **Marchetti, F.**; Gobetto, R.; Nervi, C.; Chierotti, M. R.; Chan, E. J.; Skelton, B. W.; White, A. H. *Inorg. Chem.*, **2010**, 49, 11205-11215. DOI: 10.1021/ic101830e
- 2011:**
- 130) *Synthesis, characterization and behaviour in solution of organotin complexes based on azole ligands. Single crystal X-ray study of dichlorodimethylbis(1,2,3-benzotriazole)tin(IV)*
Di Nicola, C.; **Marchetti, F.**; Pettinari, C.; Skelton, B. W.; White, A. H. *Inorg. Chem. Commun.*, **2011**, 14, 133-136. DOI:10.1016/j.inoche.2010.10.004
- 131) *Binuclear diorganotin(IV) complexes with bis(O,O'-4-acyl-5-pyrazolonato) bis(bidentate) ligands*
Effendy, **Marchetti, F.**; Marinelli, A.; Pettinari, C.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta*, **2011**, 366, 388-393. DOI: 10.1016/j.ica.2010.11.026
- 132) *Novel Triorganotin(IV) complexes of β -diketonates bearing two heterocycles in their structures*
Pettinari, C.; **Marchetti, F.**; Timokhin, I.; Marinelli, A.; Di Nicola, C.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta*, **2011**, 367, 98-107. DOI: 10.1016/j.ica.2010.12.002
- 133) *Novel bis(β -diketonato)diorganotin(IV) derivatives containing bulky 4-acyl-5-pyrazolonato ligands. Influence of the steric hindrance of the acyl moiety on the solid state structures of tin complexes and their behavior in solution*
Caruso, F.; Di Nicola, C.; Hanna, J. V.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Rossi, M.; Rees, G. J.; Skelton, B. W.; White, A. H. *Inorg. Chim. Acta*, **2011**, 367, 73-84. DOI: 10.1016/j.ica.2010.12.008
- 134) *Synthesis, characterization, crystal structure and preliminary reactivity behavior of new heteropolytopic ligands based on the 1,3,5-triazine spacer and pyrazolyl, tris-pyrazolylmethyl and tris-pyrazolylethoxy bonding fragments*
Di Nicola, C.; Garau, F.; **Marchetti, F.**; Monari, M.; Pandolfo, L.; Pettinari, C.; Venzo, A. *Dalton Trans.*, **2011**, 40, 4941-4953. DOI: 10.1039/C0DT01787F
- 135) *Coordination Chemistry of the (η^6 -Cymene)ruthenium(II) Fragment With Bis-, Tris-, and Tetrakis(pyrazol-1-yl)borate Ligands: Synthesis, Structural, Electrochemical and Catalytic Diastereoselective Nitroaldol Reaction Studies*
Pettinari, C.; **Marchetti, F.**; Cerquetella, A.; Pettinari, R.; Monari, M.; Mac Leod, T. C. O.; Martins, L. M. D. R. S.; Pombeiro, A. J. L. *Organometallics*, **2011**, 30, 1616–1626. DOI: 10.1021/om101146q

- 136) *Cobalt, Nickel, Copper and Cadmium Coordination Polymers containing the bis(1,2,4-triazolyl)methane ligand*
Marchetti, F.; Masciocchi, N.; Figini Albisetti, A.; Pettinari, C.; Pettinari, R. *Inorg. Chim. Acta*, **2011**, 373, 32–39. DOI:10.1016/j.ica.2011.03.037
- 137) *Synthesis, spectroscopic and structural characterization of some novel adducts of copper(II) salts with unidentate nitrogen bases*
 Bowmaker, G. A.; Di Nicola, C.; **Marchetti, F.**; Pettinari, C.; Skelton, B. W.; Somers, N.; White, A. H. *Inorg. Chim. Acta*, **2011**, 375, 31–40. DOI:10.1016/j.ica.2011.04.005
- 138) *Entropia: misura del disordine? ...o della dispersione di energia?!*
Marchetti, F.; Pettinari, C.; Di Nicola, C.; Pettinari, R. *CnS La Chimica nella Scuola*, **2011**, 33, 151-165.
- 139) *Synthesis, Antimicrobial and Antiproliferative Activity of Novel Silver(I) tris(pyrazolyl) methanesulfonate and 1,3,5-Triaza-7-phosphadamantane Complexes*
 Pettinari, C.; **Marchetti, F.**; Lupidi, G.; Quassinti, L.; Bramucci, M.; Petrelli, D.; Vitali, L. A.; Guedes da Silva, M. F. C.; Martins, L. M. D. R. S.; Smoleński, P.; Pombeiro, A. J. L. *Inorg. Chem.*, **2011**, 50, 11173–11183. DOI: 10.1021/ic201714c.
- 140) *Pro-porous coordination polymers of the 1,4-bis((3,5-dimethyl-1H-pyrazol-4-yl)-methyl)benzene ligand with late transition metals*
 Tăbăcaru, A.; Pettinari, C.; Masciocchi, N.; Galli, S.; **Marchetti, F.**; Angjellari, M. *Inorg. Chem.*, **2011**, 50, 11506–11513. DOI: 10.1021/ic2013705.
- 141) *Ru(II) arene complexes bearing tris(pyrazolyl)methanesulfonate capping ligands. Electrochemistry, spectroscopic and X-ray structural characterization*
Marchetti, F.; Pettinari, C.; Pettinari, R.; Cerquetella, A.; Martins, L. M. D. R. S.; Guedes da Silva, M. F. C.; Silva, T. F. S.; Pombeiro, A. J. L. *Organometallics*, **2011**, 30, 6180–6188. DOI: 10.1021/om200713vl.
- 142) *Viaggio tra gli elementi della tavola periodica*
 Di Nicola, C.; Timokhin, I.; **Marchetti, F.**; Pettinari, R.; Pettinari, C. *CnS La Chimica nella Scuola*, **2011**, 33, 298-318.

2012:

- 143) *In vitro characteristics of 1-phenyl-3-methyl-4-acylpyrazol-5-ones iron chelators*
 Filipský, T.; Mladěnka, P.; Macáková, K.; Hrdina, R.; Saso, L.; **Marchetti, F.**; Pettinari, C. *Biochimie*, **2012**, 94, 125-131. DOI: 10.1016/j.biochi.2011.09.024.
- 144) *Ruthenium-arene complexes of curcumin: X-ray and DFT structure, synthesis and spectroscopic (NMR, ESI-MS) characterization, in vitro antitumor activity and DNA docking studies of (p-cymene) Ru(curcuminato)chloro.*
 Caruso, F.; Rossi, M.; Benson, A.; Opazo, C.; Freedman, D.; Monti, E.; Gariboldi, M. B.; Shaulky, J.; **Marchetti, F.**; Pettinari, R.; Pettinari, C. *J. Med. Chem.*, **2012**, 55, 1072–1081. DOI: 10.1021/jm200912j.
- 145) *The question of cis versus trans configuration in octahedral metal diketonates: an in-depth investigation on diorganobis(4-acyl-5-pyrazolonato)tin(IV) complexes*
 Caruso, F.; Chan, E. J.; Hanna, J. V.; **Marchetti, F.**; Pettinari, C.; Di Nicola, C.; Pettinari, R.; Pizzabiocca, A.; Rees, G. J.; Quigley, D.; Rossi, M.; Skelton, B. W.; Sobolev, A. N.; White, A. H. *Eur. J. Inorg. Chem.*, **2012**, 1369–1379. DOI: 10.1002/ejic.201101050.
- 146) *Synthesis of a photoluminescent and triboluminescent copper(I) compound*
Marchetti, F.; Di Nicola, C.; Pettinari, R.; Timokhin, I.; Pettinari, C. *J. Chem. Educ.*, **2012**, 89, 652–655. DOI: 10.1021/ed2001494.

- 147) *Mechanochemical and solution synthesis, X-ray structure and IR and ^{31}P solid state NMR spectroscopic studies of copper(I) thiocyanate adducts with bulky monodentate tertiary phosphine ligands*
Bowmaker, G. A.; Hanna, J. V.; Hart, R. D.; Healy, P. C.; King, S. P.; **Marchetti, F.**; Pettinari, C.; Skelton, B.W.; Tabacaru, A.; White, A. H. *Dalton Trans.*, **2012**, 41, 7513-7525. DOI: 10.1039/c2dt30579h.
- 148) *Water-soluble heterometallic copper(II)-sodium complex comprising arylhydrazones of barbituric acid as a ligand*
Mahmudov, K. T.; Guedes da Silva, M. F. C.; Glucini, M.; Renzi, M.; Gabriel, K. C. P.; Kopylovich, M. N.; Sutradhar, M.; **Marchetti, F.**; Pettinari, C.; Zamponi, S.; Pombeiro, A. J. L. *Inorg. Chem. Commun.*, **2012**, 22, 187-189. DOI: 10.1016/j.inoche.2012.06.008.
- 149) *Di- and polynuclear silver(I) derivatives with a new multitopic pyrimidine-base tri-thioether ligand*
Mizar, A.; Pettinari, C.; **Marchetti, F.**; Timokhin, I.; Crispini, A. *Inorg. Chem. Commun.*, **2012**, 24, 20-23. DOI: 10.1016/j.inoche.2012.07.019.
- 150) *Insights on the mechanistic features of catalytic oxidations of simple and conjugated olefins promoted by $\text{VO}(\text{acac})_2/\text{H}_2\text{O}_2$ system, in acetonitrile: A computational study*
Aschi, M.; Crucianelli, M.; Di Giuseppe, A.; Di Nicola, C.; **Marchetti, F.** *Catal. Today*, **2012**, 192, 56-62. DOI: 10.1016/j.cattod.2012.01.024.
- 151) *Antibacterial action of 4,4'-bipyrazolyl-based silver(I) coordination polymers embedded in PE disks*
Tăbăcaru, A.; Pettinari, C.; **Marchetti, F.**; Di Nicola, C.; Domasevitch, K. V.; Galli, S.; Masciocchi, N.; Scuri, S.; Grappasonni, I.; Cocchioni, M. *Inorg. Chem.*, **2012**, 51 (18), 9775-9788. DOI: 10.1021/ic3011635.
- 152) *Arene- Ru^{II} complexes of curcumin exert antitumor activity via proteasome inhibition and apoptosis induction*
Bonfili, L.; Pettinari, R.; Cuccioloni, M.; Cecarini, V.; Mozzicafreddo, M.; Angeletti, M.; Lupidi, G.; **Marchetti, F.**; Pettinari, C.; Eleuteri, A. M. *ChemMedChem*, **2012**, 7, 2010-2020. DOI: 10.1002/cmdc.201200341.

2013:

- 153) *Oligo-nuclear silver thiocyanate complexes with monodentate tertiary phosphine ligands, including novel 'cubane' and 'step' tetramer forms of $\text{AgSCN} : \text{PR}_3 (1 : 1)_4$*
Bowmaker, G. A.; Di Nicola, C.; Effendy, Hanna, J. V.; Healy, P. C.; King, S. P.; **Marchetti, F.**; Pettinari, C.; Robinson, W. T.; Skelton, B. W.; Sobolev, A. N.; Tăbăcaru, A.; White, A. H. *Dalton Trans.*, **2013**, 42, 277-291. DOI: 10.1039/C2DT31853A.
- 154) *Mixed-Ligand Cu(II)-Vanillin Schiff Base Complexes; Effect of Coligands on their DNA Binding, DNA Cleavage, SOD Mimetic and Anticancer Activity*
Tabassum, S.; Amir, S.; Arjmand, F.; Pettinari, C.; **Marchetti, F.**; Masciocchi, N.; Lupidi, G.; Pettinari, R. *Eur. J. Med. Chem.*, **2013**, 60, 216-232. DOI: 10.1016/j.ejmech.2012.08.019.
- 155) *Cytotoxicity of ruthenium-arene complexes containing β -ketoamine ligands*
Pettinari, R.; Pettinari, C.; **Marchetti, F.**; Clavel, C. M.; Scopelliti, R.; Dyson, P. J. *Organometallics*, **2013**, 32, 309-316. DOI: 10.1021/om301115e.
- 156) *Group 11 Complexes with the Bidentate di(1H-indazol-1-yl)methane and di(2H-indazol-2-yl)methane Ligands*
Pettinari, C.; **Marchetti, F.**; Orbisaglia, S.; Pettinari, R.; Ngoune, J.; Gómez, M.; Santos, C.; Álvarez, E. *CrystEngComm*, **2013**, 15, 3892-3907. DOI: 10.1039/C3CE40355F.
- 157) *Synthesis, Properties, and Antitumor Effects of a new Mixed Phosphine Gold(I) Compound in Human Colon Cancer Cells*
Lupidi, G.; Avenali, L.; Bramucci, M.; Quassinti, L.; Pettinari, R.; Khalife, H. K.; Gali-Muhtasib, H.; **Marchetti, F.**; Pettinari, C. *J. Inorg. Biochem.*, **2013**, 124, 78-87. DOI: 10.1016/j.jinorgbio.2013.03.014.
- 158) *Dioxomolybdenum(VI) complexes with acylpyrazolonate ligands: synthesis, structure and catalytic properties*

- Hills, L.; Moyano, R.; Montilla, F.; Galindo, A.; Álvarez, E.; **Marchetti, F.**; Pettinari, C. *Eur. J. Inorg. Chem.*, **2013**, 3352–3361. DOI: 10.1002/ejic.201300098.
- 159) *Enlarging an Isoreticular Family: 3,3',5,5'-Tetramethyl-4,4'-bipyrazolato-based Porous Coordination Polymers*
Tăbăcaru, A.; Pettinari, C.; Timokhin, I.; **Marchetti, F.**; Carrasco-Marín, F.; Maldonado-Hódar, F. J.; Galli, S.; Masciocchi, N. *Cryst. Growth & Des.*, **2013**, 13, 3087–3097. DOI: 10.1021/cg400495w.
- 160) *Boron Functionalization and Unusual B-C Bond Activation in Rh(III) and Ir(III) Complexes with Diphenylbis(pyrazolylborate) Ligand (Ph₂Bp)*
Pettinari, R.; Pettinari, C.; **Marchetti, F.**; Monari, M.; Mosconi, E.; De Angelis, F. *Organometallics*, **2013**, 32, 3895–3902. DOI: 10.1021/om400375j.
- 161) Pettinari, C.; Pettinari, R.; Di Nicola, C.; **Marchetti, F.** *Half-Sandwich Rhodium(III), Iridium(III), and Ruthenium(II) Complexes with Ancillary Pyrazole-Based Ligands*, in “Advances in Organometallic Chemistry and Catalysis: The Silver/Gold Jubilee International Conference on Organometallic Chemistry Celebratory Book” A. J. L. Pombeiro Editor, John Wiley & Sons, Inc., Hoboken, NJ, USA, **2013**, Chapter 21, p. 269–284. ISBN: 9781118510148. DOI: 10.1002/9781118742952.ch21.
- 2014:**
- 162) *Synthesis, characterization and crystal structure of new scorpionate complexes with the hydrotris[3-(2'-thienyl)pyrazol-1-yl]borate ligand*
Pettinari, C.; **Marchetti, F.**; Orbisaglia, S.; Palmucci, J.; Pettinari, R.; Di Nicola, C.; Skelton, B. W.; White, A. H. *Eur. J. Inorg. Chem.* **2014**, 546–558. DOI: 10.1002/ejic.201301153.
- 163) *A Teaching Sequence on the Construction of the Concept of Chemical Equilibrium in Secondary School Education*
Ghirardi, M.; **Marchetti, F.**; Pettinari, C.; Regis, A.; Roletto, E. *J. Chem. Educ.* **2014**, 91(1), 59–65. DOI: 10.1021/ed3002336.
- 164) *Evaluation of (arene)Ru(II) complexes of curcumin as inhibitors of dipeptidyl peptidase IV*
Antonyan, A.; De, A.; Pettinari, R.; **Marchetti, F.**; Gigliobianco, M. R.; Pettinari, C.; Camaioni, E.; Vitali, L.. *Biochimie* **2014**, 99, 146–152. DOI: 10.1016/j.biochi.2013.11.021.
- 165) *Synthesis, Crystal Structure and Biological Studies of Pt(II) Complexes with 4-acyl-5-pyrazolones*
De Pascali, S.; Migoni, D.; Monari, M.; Pettinari, C.; **Marchetti, F.**; Fanizzi, F. P. *Eur. J. Inorg. Chem.* **2014**, 1249–1259. DOI: 10.1002/ejic.201301479.
- 166) *New Ru^{II}(arene) complexes with halogen-substituted bis- and tris-(pyrazol-1-yl)borate ligands*
Orbisaglia, S.; Di Nicola, C.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Martins, L. M. D. R. S.; Alegria, E. C. B. A.; Guedes da Silva, M. F. C.; Rocha B. G. M.; Kuznetsov, M. L.; Pombeiro, A. J. L.; Skelton, B. W.; Sobolev, A. N.; White, A. H. *Chem. Eur. J.* **2014**, 20, 3689–3704. DOI: 10.1002/chem.201304406.
- 167) *Synthesis, characterization and antitumor activity of water soluble (arene)ruthenium(II) derivatives of (1,3-dimethyl-4-acylpyrazolon-5-ato). First example of Ru(arene)(ligand) antitumor species involving simultaneous Ru-N7(guanine) bonding and ligand intercalation to DNA.*
Caruso, F.; Monti, E.; Matthews, J.; Rossi, M.; Gariboldi, M. B.; Pettinari, C.; Pettinari, R.; **Marchetti, F.** *Inorg. Chem.* **2014**, 53 (7), 3668–3677. DOI: 10.1021/ic403170y.
- 168) *Arene-Ruthenium(II) Acylpyrazolonato Complexes: Apoptosis Promoting Effects on Human Cancer Cells*
Pettinari, R.; Pettinari, C.; **Marchetti, F.**; Skelton, B. W.; White, A. H.; Bonfili, L.; Cuccioloni, M.; Mozzicafreddo, M.; Cecarini, V.; Angeletti, M.; Nabissi, M.; Eleuteri, A. M. *J. Med. Chem.* **2014**, 57 (11), 4532–4542. DOI: 10.1021/jm500458c.
- 169) *Bis(pyrazolato)-based Metal–Organic Frameworks Fabricated with 4,4'-Bis((3,5-dimethyl-1H-pyrazol-4-yl)methyl)biphenyl and Late Transition Metals*
Tăbăcaru, A.; Pettinari, C.; **Marchetti, F.**; Galli, S.; Masciocchi, N. *Cryst. Growth & Des.* **2014**, 14 (6), 3142–3152. DOI: 10.1021/cg500459v.
- 170) *Ruthenium(II)-arene RAPTA Type Complexes Containing Curcumin and Bisdemethoxycurcumin Display Potent and Selective Anticancer Activity*

- Pettinari, R.; **Marchetti, F.**; Condello, F.; Pettinari, C.; Lupidi, G.; Scopelliti, R.; Mukhopadhyay, S.; Riedel, T.; Dyson, P. J. *Organometallics* **2014**, 33, 3709–3715. DOI: 10.1021/om500317b.
- 171) *Organometallic Ruthenium(II) Scorpionate as Topo II inhibitor; in vitro Binding Studies with DNA, HPLC Analysis and its Anticancer Activity*
Khan, R. A.; Arjmand, F.; Tabassum, S.; Monari, M.; **Marchetti, F.**; Pettinari, C. J. *Organomet. Chem.* **2014**, 771, 47–58. DOI: 10.1016/j.jorganchem.2014.05.013.
- 172) *Complexes of Copper(I) Thiocyanate with Monodentate Phosphine and Pyridine Ligands and the P(N)-Donor Diphenyl-2-pyridylphosphine*
Bowmaker, G. A.; Hanna, J. V.; King, S. P.; **Marchetti, F.**; Pettinari, C.; Pizzabiocca, A.; Skelton, B. W.; Sobolev, A. N.; Tăbăcaru, A.; White, A. H. *Eur. J. Inorg. Chem.*, **2014**, 6104–6116. DOI: 10.1002/ejic.201402791
- 173) *Ruthenium(II) Arene Complexes with N,O-Chelating β -Ketoamine Ligands: Synthesis, Structure and Antiproliferative Activity*
Pettinari, R.; **Marchetti, F.**; Pettinari, C.; Petrini, A.; Scopelliti, R.; Clavel, C. M.; Dyson, P. J. *Inorg. Chem.* **2014**, 53, 13105–13111. DOI: 10.1021/ic502274b
- 174) *Electrochemical Properties of (η^5 -C₅Me₅)-Rhodium and -Iridium Complexes Containing Bis(pyrazolyl)alkane Ligands*
Martins, L. M. D. R. S.; Pettinari, C.; **Marchetti, F.**; Alegria, E. C. B. A.; Pombeiro, A. J. L. *Port. Electrochim. Acta*, **2014**, 32 (4), 253–260. DOI: 10.4152/pea.201404253.
- 175) *Viaggio tra gli elementi e le reazioni della Chimica*
Di Nicola, C.; Galassi, R.; **Marchetti, F.**; Timokhin, I.; Pettinari, R.; Pettinari, C. in *L'insegnamento della Matematica e delle Scienze nella Società della Conoscenza*, Anzellotti, G.; Catena, L. M.; Catti, M.; Cosentino, U.; Immè, J.; Vittorio, N.; Mondadori Ed., Milano, Italia, **2014**, pp. 149–155. ISBN: 9788861844087.
- 2015:**
- 176) *Novel Composite Plastics Containing Silver(I) Acylpyrazolonate Additives Display Potent Antimicrobial Activity by Contact*
Marchetti, F.; Palmucci, J.; Pettinari, C.; Pettinari, R.; Condello, F.; Ferraro, S.; Marangoni, M.; Crispini, A.; Scuri, S.; Grappasonni, I.; Cocchioni, M.; Nabissi, M.; Chierotti, M. R.; Gobetto, R. *Chem. Eur. J.* **2015**, 21 (2), 836–850. DOI: 10.1002/chem.201404812.
- 177) *Syntheses, Structure and antimicrobial activity of New remarkably light-stable and water-soluble Tris(pyrazolyl)methanesulfonate Silver(I) Derivatives of Nmethyl-1,3,5-Triaza-7-phosphaadamantane salt - [mPTA]BF₄*
Smoleński, P.; Pettinari, C.; **Marchetti, F.**; Guedes da Silva, M. F. C.; Lupidi, G.; Badillo Patzmay, G. V.; Petrelli, D.; Vitali, L.; Pombeiro, A. J. L. *Inorg. Chem.* **2015**, 54 (2), 434–440. DOI: 10.1021/ic501855k.
- 178) *Mn^{II} and Cu^{II} complexes with arylhydrazones of active methylene compounds as effective heterogeneous catalysts for solvent- and additive-free microwave-assisted peroxidative oxidation of alcohols*
Mahmudov, K. T.; Sutradhar, M.; Martins, L. M. D. R. S.; Guedes da Silva, M. F. C.; Ribera, A.; Nunes, A. V. M.; Gahramanova, S. I.; **Marchetti, F.**; Pombeiro, A. J. L. *RSC Adv.* **2015**, 5 (33), 25979–25987. DOI: 10.1039/c5ra02667a.
- 179) *Novel Coordination Polymers with (Pyrazolato)-based Tectons: Catalytic Activity in the Peroxidative Oxidation of Alcohols and Cyclohexane*
Timokhin, I.; Pettinari, C.; **Marchetti, F.**; Pettinari, R.; Condello, F.; Galli, S.; Alegria, E. C. B. A.; Martins, L. M. D. R. S.; Pombeiro, A. J. L. *Cryst. Growth Des.* **2015**, 15 (5), 2303–2317. DOI: 10.1021/acs.cgd.5b00083.
- 180) *Dinuclear (η^6 -arene) ruthenium(II) acylpyrazolone complexes: synthesis, characterization and cytotoxicity*
Pettinari, R.; **Marchetti, F.**; Pettinari, C.; Petrini, A.; Skelton, B. W.; White, A. H.; Bonfili, L.; Cuccioloni, M.; Eleuteri, A. M. *J. Organomet. Chem.* **2015**, 791, 1–5. DOI: 10.1016/j.jorganchem.2015.04.049.
- 181) *Recent advances in acylpyrazolone metal complexes and their potential applications*

Marchetti, F.; Pettinari, R.; Pettinari, C. *Coord. Chem. Rev.* **2015**, 303, 1-31. DOI: 10.1016/j.ccr.2015.05.003.

- 182) *Implementing an Equilibrium Law Teaching Sequence for Secondary School Students To Learn Chemical Equilibrium*
Ghirardi, M.; **Marchetti, F.;** Pettinari, C.; Regis, A.; Roletto, E. *J. Chem. Educ.* **2015**, 92 (6), 1008–1015. DOI: 10.1021/ed500658s.
- 183) *The Chemistry of Cat Litter: Activities for High School Students to Evaluate a Commercial Product's Properties and Claims Using the Tools of Chemistry*
Celestino, T.; **Marchetti, F. J.** *Chem. Educ.* **2015**, 92 (8), pp 1359–1363. DOI: 10.1021/ed500505j.
- 184) *Synthesis of novel lanthanide acylpyrazolonato ligands with long aliphatic chains and immobilization of the Tb complex on the surface of silica pre-modified via hydrophobic interactions*
Pettinari, C.; **Marchetti, F.;** Pettinari, R.; Belousov, Y. A.; Taydakov, I. V.; Krasnobrov, V. D.; Petukhov, D. I.; Drozdov, A. A. *Dalton Trans.* **2015**, 44 (33), 14887–14895. DOI: 10.1039/C5DT01964H.
- 185) *Arylhydrazones of Barbituric Acid: synthesis, coordination ability and catalytic activity of their Coll/III and CuII complexes toward peroxidative oxidation of alkanes*
Palmucci, J.; Mahmudov, K. T.; Guedes da Silva, M. F. C.; Martins, L. M. D. R. S.; **Marchetti, F.;** Pettinari, C.; Pombeiro, A. J. L. *RSC Adv.* **2015**, 5, 84142–84152. DOI: 10.1039/C5RA14078A.
- 186) *Organometallic Rhodium(III) and Iridium(III) Cyclopentadienyl Complexes with Curcumin and Bisdemethoxycurcumin Co-ligands.*
Pettinari, R.; **Marchetti, F.;** Pettinari, C.; Condello, F.; Petrini, A.; Scopelliti, R.; Riedel, T.; Dyson, P. J. *Dalton Trans.* **2015**, 44(47), 20523–20531. DOI: 10.1039/c5dt03037d.

2016:

- 187) *DNA and BSA Binding, Anticancer and Antimicrobial Properties of Co(II), Co(II/III), Cu(II) and Ag(I) Complexes of Arylhydrazones of Barbituric Acid.*
Palmucci, J.; Mahmudov, K. T.; Guedes da Silva, M. F. C.; **Marchetti, F.;** Pettinari, C.; Petrelli, D.; Vitali, L. A.; Quassinti, L.; Bramucci, M.; Lupidi, G.; Pombeiro, A. J. L. *RSC Adv.* **2016**, 6, 4237–4249. DOI: 10.1039/c5ra20157h.
- 188) *Self-Assembly of Arene Ruthenium Acylpyrazolone Fragments to Tetranuclear Metallacycles. Molecular Structures and Solid-State ¹⁵N CPMAS NMR Correlations.*
Pettinari, R.; **Marchetti, F.;** Pettinari, C.; Condello, F.; Skelton, B. W.; White, A. H.; Chierotti, M. R.; Gobetto, R. *Dalton Trans.* **2016**, 45, 3974–3982. DOI: 10.1039/c6dt00168h.
- 189) *The Water Soluble Ruthenium(II) Organometallic Compound [Ru(p-cymene)(bis(3,5 dimethylpyrazol-1-yl)methane)Cl]Cl Suppresses Triple Negative Breast Cancer Growth by Inhibiting Tumor Infiltration of Regulatory T Cells.*
Montani, M.; Badillo Pazmay, G. V.; Hysi, A.; Lupidi, G.; Pettinari, R.; **Marchetti, F.;** Pettinari, C.; Ferraro, S.; Iezzi, M.; Marchini, C.; Amici, A. *Pharmacol. Res.* **2016**, 107, 282–290. DOI: 10.1016/j.phrs.2016.03.032.
- 190) *Group 9 and 10 complexes with the bidentate di(1H-indazol-1-yl)methane and di(2H-indazol-2-yl)methane) ligands: synthesis and structural characterization.*
Santos, C.; Gómez, M.; Álvarez, E.; Ngoune, J.; **Marchetti, F.;** Pettinari, R.; Pettinari, C. *New. J. Chem.* **2016**, asap. DOI: 10.1039/c5nj03135d.
- 191) *Golden Jubilee for Scorpionates: recent advances in Organometallic Chemistry and their role in Catalysis.*
Pettinari, C.; Pettinari, R.; **Marchetti, F.** *Adv. Organomet. Chem.* **2016**, asap. DOI: 10.1016/bs.adomc.2016.01.002.
- 192) *Ruthenium derivative of quercetin with enhanced cholesterol-lowering activity*
Cuccioloni, M.; Bonfili, L.; Mozzicafreddo, M.; Cecarini, V.; Pettinari, R.; Condello, F.; **Marchetti, F.;** Pettinari, C.; Angeletti, M.; Eleuteri, A. M. *RSC Adv.* **2016**, asap. DOI: 10.1039/C6RA06403E
- 193) *Synthesis and characterization of a new alkyne functionalized bis(pyrazolyl)methane ligand and of its Pd(II) complexes: evaluation of their in vitro cytotoxic activity.*

- Di Nicola, C.; **Marchetti, F.**; Pettinari, C.; Pettinari, R.; Brisdelli, F.; Crucianelli, M.; Lelii, C.; Crispini, A. *Inorg. Chim. Acta* **2016**, *asap*. DOI: 10.1016/j.ica.2016.04.032
- 194) *Ruthenium(II)-Arene Complexes with Dibenzoylmethane Induce Apoptotic Cell Death in Multiple Myeloma Cell Lines.*
Pettinari, R.; **Marchetti, F.**; Petrini, A.; Pettinari, C.; Lupidi, G.; Fernández, B.; Diéguez, A. R.; Santoni, G.; Nabissi, M. *Inorg. Chim. Acta* **2016**, *asap*. DOI: 10.1016/j.ica.2016.04.031

Communications at Congresses of Prof. Fabio Marchetti

- Organotin(IV) derivatives of bis-[4-(1-phenyl-3-methylpyrazol-5-one)]-dioxoalkanes.*
C. Pettinari, **F. Marchetti**, G. Gioia Lobbia, D. Leonesi, A. Lorenzotti, S. Bartolini. Camerino 9-12 settembre 1992, I Congresso gruppo interdivisionale chimica organometallica: CO.G.I.C.O. 92. Abs. Atti del Convegno pag. 59.
- Zinc, Cadmium and mercury(II) derivatives of bis(pyrazol-1-yl)alkanes.*
C. Pettinari, **F. Marchetti**, C. Santini, G. Gioia Lobbia, A. Lorenzotti, D. Leonesi. Cagliari, 26 settembre-1 ottobre 1993, XXII Congresso Nazionale di Chimica INORGANICA. Abs. Atti del Convegno pag. 427-8.
- Synthesis and characterization of stable tin(II) derivatives of 4-acyl-5-pyrazolones. Crystal structures of bis(1-phenyl-3-methyl-4-acetyl-5-pyrazolonato)tin(II).*
C. Pettinari, **F. Marchetti**, A. Cingolani, R. Spagna, C. Marciante, M. Colapietro. Cagliari, 26 settembre-1 ottobre 1993, XXII Congresso Nazionale di Chimica INORGANICA. Abs. Atti del Convegno pag. 316-7.
- Struttura cristallina e molecolare del bis(1-fenil-3-metil-4-acetil-5-pirazolonato)stagno(II).*
C. Pettinari, **F. Marchetti**, A. Cingolani, M. Colapietro, C. Marciante, R. Spagna. Venezia 19-22 Ottobre 1993, XXIII CONGRESSO NAZIONALE, Associazione italiana di Cristallografia. Abs. Atti del Convegno pag. 248-9.
- Crystal and molecular structure of bis(1-phenyl-3-methyl-4-bromobenzoyl)pyrazolon-5-ato)dimethyltin(IV).*
F. Caruso, **F. Marchetti**, C. Pettinari, M. Rossi. Venezia 19-22 Ottobre 1993, XXIII CONGRESSO NAZIONALE, Associazione italiana di Cristallografia. Abs. Atti del Convegno pag. 256.
- Complessi di rame(I) con leganti N- e P-donatori monodentati o bidentati.*
C. Pettinari, A. Lorenzotti, G. Sclavi, **F. Marchetti**, C. Santini. Camerino 12-13 maggio 1994, XIII Convegno Interregionale T.U.M., Abs. Atti del Convegno pagg. 96-97.
- Bis(pirazol-1-il)alcani: una versatile famiglia di leganti bidentati N-donatori.*
C. Pettinari, L. Cimarossa, D. Leonesi, **F. Marchetti**, A. Cesetti, B. Bovio. Camerino 12-13 maggio 1994, XIII Convegno Interregionale T.U.M., Abs. Atti del Convegno pagg. 58-59.
- Derivati stannosi e stannici di 4-acyl-5-pirazoni.*
F. Marchetti, C. Pettinari, G. Gioia Lobbia, A. Cingolani, F. Caruso. Camerino 12-13 maggio 1994, XIII Convegno Interregionale T.U.M., Abs. Atti del Convegno pagg. 92-93.
- Tin and organotin(IV) complexes of new functionalized 4-acyl-pyrazolon-5-ato ligands.*
C. Pettinari, **F. Marchetti**, G. Gioia Lobbia, A. Lorenzotti, D. Leonesi, F. Caruso. Marina di Ascea, 18-21 settembre 1994 II Congresso Interdivisionale Chimica Organometallica. Abs. Atti del Convegno pag. 69.
- Tin and organotin(IV) derivatives of azoles.*

- C. Pettinari, **F. Marchetti**, D. Leonesi, A. Lorenzotti, E. Rivarola. Bressanone 2-7 ottobre 1994, XXIII Congresso Nazionale di Chimica Inorganica, V Conv. di Sintesi e Metod. speciali in Chimica Inorganica. Abs. Atti del Convegno pagg. 128-129.
11. *Molecular structure of nitrato-bis(tri-p-tolyl)phosphinecopper(I) in the crystal.*
C. Pettinari, **F. Marchetti**, A. Cingolani, M. Colapietro, G. Portalone. Pavia 27-29 settembre 1994, XXIV CONGRESSO NAZIONALE. Associazione italiana di Cristallografia, Abs. Atti del Conv. pag. 156-157.
 12. *Nuovi triorganostagno(IV) derivati dei leganti bidentati 4-acil-5-pirazoloni.*
F. Marchetti, C. Pettinari, D. Leonesi, G. Gioia Lobbia, M. Chiarini. Terni 11-12 maggio 1995, XIV Convegno Interregionale T.U.M.A., Abs. Atti del Conv. pag. 30-31.
 13. *Capacità donatrici del bis(4-metilpirazol-1-il)metano e del bis(3,4,5-trimetilpirazol-1-il) metano nei confronti di sali di zinco(II), cadmio(II) e mercurio(II).*
C. Santini, C. Pettinari, **F. Marchetti**, A. Cingolani, A. Lorenzotti. Terni 11-12 maggio 1995, XIV Convegno Interregionale T.U.M.A., Abs Atti del Conv. pag. 28-29.
 14. *Breaking of C-X bonds (X=C or N) in coordination chemistry of azoles.*
C. Pettinari, **F. Marchetti**, A. Cingolani, D. Leonesi, G. Gioia Lobbia, A. Lorenzotti. Senigallia 9-14 giugno 1995, 3rd G.I.P.S., Greek, Italian, Portuguese, Spanish Meeting in Inorganic Chemistry, Abs Atti del Conv. P79.
 15. *Synthesis and characterization of new tin(IV) and organotin(IV) derivatives containing N-donor monodentate or bidentate ligands.*
C. Pettinari, **F. Marchetti**, A. Cingolani, G. Gioia Lobbia, A. Lorenzotti, A. Cassetta. Milano 27 agosto - 1 settembre 1995, XVIII Congresso Nazionale, Formazione, Ricerca, Innovazione, Abs Atti del Conv. OM6.
 16. *Phosphinecopper(I) polypyrazolylborates. The X-ray crystal structure of $[pz_2B-(\mu-pz)_2-Cu(PPh_3)_2]$ and $[HB-(\kappa-pz)_3-CuPPh_3]$.*
P. Cecchi, G. Gioia Lobbia, B. Bovio, C. Pettinari, **F. Marchetti**, D. Leonesi. Milano 27 agosto - 1 settembre 1995, XVIII Congresso Nazionale, Formazione, Ricerca, Innovazione, Abs Atti del Conv. I-P24.
 17. *New tin(IV) and organotin(IV) derivatives containing O-donor bidentate ligands.*
C. Pettinari, **F. Marchetti**, D. Leonesi, A. Lorenzotti, F. Caruso. Parma 10-15 settembre 1995, XIth FEChem, Conference on Organometallic Chemistry, Abs. Atti del Conv. pag. 208.
 18. *Synthesis, characterization and reactivity of new metal derivatives containing N- and O-donor monodentate or bidentate ligands.*
C. Pettinari, **F. Marchetti**, A. Cingolani, G. Gioia Lobbia, A. Lorenzotti, D. Leonesi, C. Santini. Bologna 16-17 febbraio 1996, Scientific Meeting, Consorzio Interuniversitario Reattività Chimica e Catalisi, MURST 40%, Abs. Atti del Conv. pag. 47.
 19. *Complessi di rame(I) e rame(II) con leganti β -dicarbonilici.*
F. Marchetti, C. Pettinari, M. Pellei, G. Gioia Lobbia, D. Leonesi, M. Camalli, A. Pifferi. L'Aquila, 6-7 giugno 1996, TUMA 96, XV Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. 38-39.
 20. *Derivati stannici con leganti polipirazolilborati. Tetrakis(4-metil-pirazol-1-il)borate.*
C. Santini, G. Gioia Lobbia, P. Cecchi, **F. Marchetti**, A. Cingolani. L'Aquila, 6-7 giugno 1996, TUMA 96, XV Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. 36-37.
 21. *Tin(IV) and organotin(IV) derivatives of polypyrazolylborates. Tris- and tetrakis(4-methyl-1H-pyrazol-1-yl)borates.*

- G. Gioia Lobbia, C. Santini, **F. Marchetti**, C. Pettinari, G. Valle, P. Cecchi. Villa Olmo, Como, 9-14 giugno 1996, 2nd EUCHEM CONFERENCE, Nitrogen ligands in organometallic chemistry and homogeneous catalysis, Abs. Atti del Conv. pag. P26.
22. *Metal derivatives of imidazoles and pyrazoles.*
C. Pettinari, **F. Marchetti**, M. Pellei, C. Santini, D. Leonesi, A. Cingolani, A. Lorenzotti, G. Portalone. Villa Olmo, Como, 9-14 giugno 1996, 2nd EUCHEM CONFERENCE, Nitrogen ligands in organometallic chemistry and homogeneous catalysis, Abs. Atti del Conv. pag. P40.
 23. *Reactivity of di- and tri-organotin(IV) oxides with 4-acyl-5-pyrazolones, a family of sophisticated β -diketone ligands.*
F. Marchetti, C. Pettinari, A. Cingolani, A. Lorenzotti, A. Cassetta, L. Barba. Riccione, 9-14 giugno 1996, XIX Congresso Nazionale, Ricerca e Tecnologia, Abs. Atti del Conv. pag. CI/CO-06.
 24. *Recent advances in coordination chemistry of azoles toward copper(I) and silver(I) acceptors.*
C. Pettinari, A. Cingolani, G. Gioia Lobbia, D. Leonesi, A. Lorenzotti, **F. Marchetti**, C. Santini. Mondello (PA), 25-29 giugno 1996, XXIV Congresso di Chimica Inorganica, Abs. Atti del Conv. pag. A8.
 25. *Recent advances in tin(IV) and organotin(IV) β -diketonate chemistry.*
C. Pettinari, **F. Marchetti**, A. Cingolani, A. Lorenzotti, F. Caruso, M. Rossi. Siena 3-6 luglio 1996, III CO.G.I.C.O. 96, Abs. Atti del Conv. pag. 55.
 26. *Nuovi sviluppi nella chimica di coordinazione di 4-acil-5-pirazoloni con accettori di stagno.* **F. Marchetti**, C. Pettinari, M. Pellei, A. Cingolani, M. Rossi, F. Caruso. Lucca, 19-20 giugno 1997, TUMA 97, XVI Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. C24.
 27. *Interazione di leganti pirazoliborati con accettori di mercurio(II) ed organomercurio(II). Studi analitici, spettroscopici e strutturali.*
C. Santini, G. Gioia Lobbia, **F. Marchetti**, D. Leonesi, F. Giordano. Lucca, 19-20 giugno 1997, TUMA 97, XVI Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. C26.
 28. *Tin(IV) and organotin(IV) complexes of azoles.*
C. Pettinari, M. Pellei, **F. Marchetti**, M. Miliani, A. Cingolani, A. Cassetta, L. Barba. Prague (Czech Republic), 31 agosto - 5 settembre 1997, XIIth FEICHEM, Conference on Organometallic Chemistry, Abs. Atti del Conv. pag. 63.
 29. *Silver(I) derivatives of azoles.*
C. Pettinari, C. Santini, **F. Marchetti**, M. Pellei, A. Cingolani, G. Gioia Lobbia. Alessandria, 1-4 settembre 1997, XXV Congresso di Chimica Inorganica, Abs. Atti del Conv. pag. C3.
 30. *Structure and reactivity of organotin(IV) derivatives of azoles and β -diketones.*
C. Pettinari, M. Miliani, M. Pellei, **F. Marchetti**, C. Santini, A. Cingolani, A. Drozdov, S. I. Troyanov. Camerino (MC), 9-13 settembre 1997, International School of Organometallic Chemistry, Abs. Atti del Conv. pag. 93-94.
 31. *Organorhodium(I) derivatives of 4-acyl-5-pyrazolones.*
F. Accorroni, A. Cingolani, **F. Marchetti**, M. Pellei, C. Pettinari. Camerino (MC), 9-13 settembre 1997, International School of Organometallic Chemistry, Abs. Atti del Conv. pag. 78-79.
 32. *Interazione tra 4-acil-5-pirazoloni funzionalizzati con gruppi ingombranti e accettori di stagno.*
F. Marchetti, C. Pettinari, A. Cingolani, D. Leonesi, M. Rossi, F. Caruso. Numana (AN), 8-10 giugno 1998, TUMA 98, XVII Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. 22.
 33. *Chimica di coordinazione dell'argento(I) con leganti poli(pirazolil)borati e poli(imidazolil)borate.*

- C. Pettinari, C. Santini, G. Gioia Lobbia, M. Pellei, **F. Marchetti**, A. Lorenzotti, R. Spagna. Numana (AN), 8-10 giugno 1998, TUMA 98, XVII Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. 24.
34. *Variable coordination numbers in poly(azolyl)borates silver(I) compounds.*
C. Pettinari, C. Santini, G. Gioia Lobbia, **F. Marchetti**, A. Cingolani, M. Pellei. Acquafredda di Maratea (PZ), 28 giugno – 2 luglio 1998, XXVI Congresso di Chimica Inorganica, Abs. Atti del Conv. pag. C10.
35. *Silver(I) complexes of tris(pyrazolyl)alkanes.*
C. Pettinari, A. Cingolani, Effendy, G. Gioia Lobbia, **F. Marchetti**, M. Pellei, C. Santini, A. H. White. Acquafredda di Maratea (PZ), 28 giugno – 2 luglio 1998, XXVI Congresso di Chimica Inorganica, Abs. Atti del Conv. pag. P59.
36. *Structural features of novel β -diketonate ligands.*
F. Caruso, A. Cingolani, **F. Marchetti**, C. Pettinari, M. Rossi. Firenze, 30 agosto – 4 settembre 1998, XXXIII International Conference of Coordination Chemistry, Abs. Atti del Conv. pag. 236.
37. *Synthesis and structure of new metal acylpyrazolonate.*
C. Pettinari, **F. Marchetti**, A. Cingolani, A. Drozdov, S. Troyanov. Firenze, 30 agosto – 4 settembre 1998, XXXIII International Conference of Coordination Chemistry, Abs. Atti del Conv. pag. 704.
38. *Structural and spectroscopic trends in 4-acyl-5-pyrazolone complexes.*
F. Marchetti, C. Pettinari, A. Cingolani, G. Gioia Lobbia, M. Pellei, C. Santini, M. Rossi, F. Caruso. Udine, 16-19 settembre 1998, IV CO.G.I.C.O., Congresso del gruppo interdivisionale di chimica organometallica, Abs. Atti del Conv. pag. P9.
39. *Correlazione tra dati ^{119}Sn -NMR, far-IR, MS-FAB e dati strutturali di derivati stannici ed organostannici di tris(pirazolil)alcani.*
M. Pellei, C. Pettinari, D. Martini, C. Santini, **F. Marchetti**, A. Drozdov. Perugia, 3-5 giugno 1999, TUMA '99, XVIII Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. 83.
40. *Competizione tra fosfine ed azoli nella formazione di derivati contenenti rame(I) ed argento(I).*
R. Pettinari, C. Pettinari, **F. Marchetti**, A. Cingolani, A. H. White. Perugia, 3-5 giugno 1999, TUMA '99, XVIII Convegno Interregionale Toscano Umbro Marchigiano Abruzzese, Abs. Atti del Conv. pag. 91.
41. *New structural aspects of metal(II) bis(acyl-pyrazolonate) derivatives.*
F. Marchetti, C. Pettinari, A. Cingolani, R. Pettinari, A. Lorenzotti, A. Drozdov, S. Troyanov. Como, 27 giugno - 1 luglio 1999, XXVII Congresso di Chimica Inorganica, Abs. Atti del Conv. pag. O47.
42. *Correlating between ^{119}Sn -NMR, ^{119}Sn Mössbauer, IR and FAB data with X-ray diffraction studies on tin(IV) derivatives of azoles.*
C. Pettinari, M. Pellei, D. Leonesi, G. Gioia Lobbia, C. Santini, **F. Marchetti**, A. Drozdov, S. Troyanov. Como, 27 giugno - 1 luglio 1999, XXVII Congresso di Chimica Inorganica, Abs. Atti del Conv. pag. P26.
43. *New structural aspects of bis(acyl-pyrazolonate)diorganotin(IV) derivatives.*
F. Marchetti, C. Pettinari, R. Pettinari, A. Cingolani, A. Lorenzotti, M. Rossi, F. Caruso. Camerino, 11-15 settembre 1999, 2nd International School of Organometallic Chemistry, Abs. Atti del Conv. pag. 80.
44. *First ionic compounds obtained from the reaction of neutral tripodal ligands tris(pyrazol-1-yl)methanes with tin(IV) acceptors.*
M. Pellei, C. Pettinari, C. Santini, **F. Marchetti**, A. Cingolani, G. Gioia Lobbia, A. Drozdov, S. Troyanov. Camerino, 11-15 settembre 1999, 2nd International School of Organometallic Chemistry, Abs. Atti del Conv. pag. 94.
45. *Nuovi complessi di stagno(IV) con basi di schiff tridentate.*

- R. Pettinari, A. Cingolani, **F. Marchetti**, C. Pettinari. Montesilvano (PE), 25-27 maggio 2000, TUMA 2000 XIX Convegno Interregionale, Abs. Atti del Conv. pag. 49.
46. *Zinc and cadmium bis(acylpyrazolonato) derivatives containing additional ancillary donors. Solution and solid state characterisation and reactivity.*
F. Marchetti, C. Pettinari, A. Cingolani, R. Pettinari, D. Leonesi, A. Drozdov, S. Troyanov. Rimini (RI), 4-9 giugno 2000, SCI 2000 XX Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv., Vol. II poster, pag. IN-PO050.
47. *Tin(IV) and organotin(IV) derivatives containing a novel class of bis- β -diketonato ligands.*
 C. Pettinari, **F. Marchetti**, A. Cingolani, R. Pettinari, C. Santini, A. Drozdov, S. Troyanov. Rimini (RI), 4-9 giugno 2000, SCI 2000 XX Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv., Vol. II poster, pag. IN-PO018.
48. *Synthesis and structural systematics of mixed triphenylphosphine/azole silver(I) derivatives.* C. Pettinari, **F. Marchetti**, C. Santini, G. Gioia Lobbia, A. Cingolani, M. Pellei, R. Pettinari, D. Leonesi, A. Lorenzotti. Rimini (RI), 4-9 giugno 2000, SCI 2000 XX Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv., Vol. I comunicazioni orali, pag. IN-OR028.
49. *Controllo della nuclearità nei derivati di leganti O- e N-donatori con organostagno(IV) accettori.*
 R. Pettinari, A. Cingolani, **F. Marchetti**, C. Pettinari, A. Drozdov, S. Troyanov. Pisa (PI), 24-24 maggio 2001, TUMA 2001 XX Convegno Interregionale, Abs. Atti del Conv. pag. 75.
50. *Coordination chemistry of bis(pyrazolones): a rational design of nuclearity tailored polynuclear complexes.*
F. Marchetti, D. Martini, C. Pettinari, R. Pettinari, A. Cingolani. Camerino, 9-13 settembre 2001, 3rd International School of Organometallic Chemistry, Abs. Atti del Conv. pag. 97.
51. *Recent advances in 4-acyl-pyrazolones coordination chemistry.*
 C. Pettinari, A. Cingolani, **F. Marchetti**, R. Pettinari, A. Drozdov, S. I. Troyanov. Taormina (Me), 25-29 settembre 2001, XXIX Congresso Nazionale della Divisione di Chimica Inorganica della SCI, Abs. Atti del Conv. pag. CS2.
52. *Reactivity of $[Rh(1,5-COD)X]$ species towards N-, O- and P-donor ligands.*
 C. Pettinari, **F. Marchetti**, R. Pettinari, D. Martini, A. Cingolani, Venezia, 1-3 luglio 2002, V Co.G.I.C.O. 2002 Congresso del gruppo interdivisionale di chimica organometallica, Abs. Atti del Conv. pag. 14.
53. *New volatile metal complexes containing pyrazole-based ligands.*
 C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cingolani, D. Martini, G. Gioia Lobbia, A. Drozdov, V. Vertlieb, S. Troyanov. Modena, 15-19 settembre 2002, XXX Congresso Nazionale di Chimica Inorganica, Abs. Atti del Conv. pag. PR02.
54. *Tuning stoichiometry and coordination environment in Silver derivatives containing bidentate phosphines.*
 D. Martini, **F. Marchetti**, C. Pettinari, R. Pettinari, C. Santini, M. Pellei, A. Cingolani. Modena, 15-19 settembre 2002, XXX Congresso Nazionale di Chimica Inorganica, Abs. Atti del Conv. pag. PR03.
55. *Nuclearity tuning and unusual coordination properties in Silver acylpyrazolonates formation.*
F. Marchetti, C. Pettinari, R. Pettinari, D. Martini, A. Cingolani, A. H. White. Modena, 15-19 settembre 2002, XXX Congresso Nazionale di Chimica Inorganica, Abs. Atti del Conv. pag. CS02.
56. *Controllo della stechiometria e della geometria molecolare di derivati di argento(I) con fosfine bidentate.*
 D. Martini, C. Di Nicola, R. Pettinari, **F. Marchetti**, C. Pettinari, A. Cingolani. Riccione, 7-8 ottobre 2002, 2° S.A.Y.C.S., Abs. Atti del Conv. pag. P104.

57. *Sintesi, strutture e reattività di complessi di Rh(III) e Ir(III) contenenti leganti ciclopentadienilici e tris(pirazolil)borati.*
R. Pettinari, A. Cingolani, C. Pettinari, **F. Marchetti**, A. H. White. Riccione, 7-8 ottobre 2002, 2° S.A.Y.C.S., Abs. Atti del Conv. pag. P109.
58. *Oligomerization and hydrolysis in titanium 4-acyl-5-pyrazolonato derivatives: spectroscopic and DFT studies.*
C. Pettinari, **F. Marchetti**, R. Pettinari, D. Martini, C. Di Nicola, F. Caruso, M. Rossi. Torino, 22-27 giugno 2003, SCI2003 XXI Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv. pag. IN-CP-063.
59. *Imidazole-containing strontium β -diketonate compounds as new potential molecular precursors for CVD.*
F. Marchetti, C. Pettinari, R. Pettinari, D. Martini, A. Cingolani, A. Drozdov, V. Vertlib, I. Timokhin, S. Troyanov. Torino, 22-27 giugno 2003, SCI2003 XXI Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv. pag. IN-CP-062.
60. *Sintesi, caratterizzazione e reattività di complessi ciclopentadienilici di Rh(III) e Ir(III) con leganti N- e O-donatori.*
A. Cingolani, **F. Marchetti**, C. Pettinari, R. Pettinari, B. W. Skelton, A. H. White. Torino, 22-27 giugno 2003, SCI2003 XXI Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv. pag. IN-CP-061.
61. *Sintesi, caratterizzazione e reattività di complessi organostannici contenenti ossidiacetato.*
A. Cingolani, **F. Marchetti**, C. Pettinari, C. Di Nicola, D. Martini, A. H. White. Torino, 22-27 giugno 2003, SCI2003 XXI Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv. pag. IN-CP-064.
62. *Synthesis and characterization of silver(I) complexes with the bis(1,2,4-triazol-1-yl)alkane ligand $tz_2(CH_2)$.*
A. Cingolani, **F. Marchetti**, C. Pettinari, R. Pettinari, B. W. Skelton, A. H. White. Torino, 22-27 giugno 2003, SCI2003 XXI Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv. pag. IN-CP-032.
63. *Synthesis and characterization of silver(I) complexes with the bis(1,2,4-triazol-1-yl)alkane ligand $tz_2(CH_2)$.*
V. Vertlib, A. Drozdov, I. Timokhin, S. Troyanov, C. Pettinari, **F. Marchetti**, Y.-S. Min, D. Kim. Parigi, Francia, 27 aprile – 2 maggio 2003, 203rd Meeting, V1 – CVD XVI and EUROCVI 14, Abs. Atti del Conv. Electrochem. Soc. Proceedings, vol. 2003-08, pag. 128-135.
64. *Synthesis and structures of half sandwich complexes of (η^5 -C₅Me₅)-rhodium and -iridium with aacylpyrazolone ligands.*
R. Pettinari, C. di Nicola, **F. Marchetti**, C. Pettinari, D. Martini, A. H. White. Sestri Levante (Genova), 21-25 settembre 2003, VIII Scuola Nazionale per Dottorandi "Chimica dei Materiali Inorganici", Abs. Atti del Conv. pag. P10.
65. *Tin(IV) and organotin(IV) derivatives containing bis(pyrazol-1-yl)acetates. A new family of facially tripod ligands.*
F. Marchetti, C. Pettinari, R. Pettinari, C. di Nicola, A. Cingolani. Camerino (Macerata), 6-10 settembre 2003, IVth ISOC International School of Organometallic Chemistry, Abs. Atti del Conv. pag. 71.
66. *Synthesis, characterization and biological activity of new organotin(IV) complexes with N,N',O-scorpionate ligands.*

- A. Birladeanu, **F. Marchetti**, M. Pellei, C. Pettinari, C. Santini. Camerino (Macerata), 8-12 settembre 2004, IIIrd Euchem Conference on Nitrogen Ligands in Organometallic Chemistry and Homogeneous Catalysis, Abs. Atti del Conv. pag. P8.
67. *Novel Platinum(II) Complexes with acylpyrazolones.*
S. A. De Pascali, D. Magoni, F. P. Fanizzi, C. Pettinari, **F. Marchetti**. Camerino (Macerata), 8-12 settembre 2004, IIIrd Euchem Conference on Nitrogen Ligands in Organometallic Chemistry and Homogeneous Catalysis, Abs. Atti del Conv. pag. P24.
68. *(η^5 -C₅Me₅)-Rhodium and iridium derivatives of bis(pyrazolyl)alkanes.*
R. Pettinari, A. Cingolani, M. Fianchini, **F. Marchetti**, C. Pettinari. Camerino (Macerata), 8-12 settembre 2004, IIIrd Euchem Conference on Nitrogen Ligands in Organometallic Chemistry and Homogeneous Catalysis, Abs. Atti del Conv. pag. P61.
69. *Sintesi di derivati ciclopentadienilici di rodio e iridio con bis(pirazol-1-il)alcani.*
R. Pettinari, A. Cingolani, M. Fianchini, **F. Marchetti**, C. Pettinari, A. H. White. Roma, 20-24 settembre 2004, XXXII° Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. pag. P042.
70. *Nuovi precursori CVD di stronzio e bario.*
F. Marchetti, C. Pettinari, A. Drozdov, R. Pettinari, A. Cingolani, M. Paoletti. Roma, 20-24 settembre 2004, XXXII° Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. pag. P070.
71. *Chimica di coordinazione di leganti scorpionati con accettori di rodio e iridio.*
C. Pettinari, R. Pettinari, **F. Marchetti**, A. Cingolani. Roma, 20-24 settembre 2004, XXXII° Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. pag. P079.
72. *Complexes of tin(II) with 4-acyl-5-pyrazolonates: synthesis, spectroscopic and X-ray structural characterization.*
C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cingolani, E. Rivarola, C. Phillips, J. Tanski, M. Rossi, F. Caruso. Roma, 20-24 settembre 2004, XXXII° Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. pag. P116.
73. *Spectroscopic and X-ray structural characterization of complexes of lead(II).*
C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cingolani, E. Rivarola, C. Phillips, J. Tanski, M. Rossi, F. Caruso. Roma, 20-24 settembre 2004, XXXII° Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. pag. P117.
74. *Scorpionates of rhodium and iridium.*
C. Pettinari, R. Pettinari, **F. Marchetti**, A. Cingolani. Cetraro (CS), 30 settembre - 3 ottobre 2004, VI° Co.G.I.C.O. 2004 Congresso del gruppo interdivisionale di chimica organometallica, Abs. Atti del Conv. pag. C12.
75. *New organotin(IV) complexes of bis(pyrazol-1-yl)acetate ligands.*
F. Marchetti, M. Pellei, C. Pettinari, C. Santini. Cetraro (CS), 30 settembre - 3 ottobre 2004, VI° Co.G.I.C.O. 2004 Congresso del gruppo interdivisionale di chimica organometallica, Abs. Atti del Conv. pag. P15.
76. *Rh and Ir derivatives of scorpionates.*
C. Pettinari, R. Pettinari, **F. Marchetti**, A. Cingolani. Atene (Grecia), 6-9 luglio 2005, 8th FIGIPAS Meeting in Inorganic Chemistry, Abs. Atti del Conv. pag. PP117.
77. *New advances in the coordination chemistry of copper and Silver acylpyrazolones.*
F. Marchetti, C. Pettinari, R. Pettinari, A. Cingolani, A. H. White. Siena, 11-16 luglio 2005, XXXIII Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. Pag. P055.
78. *New multitopic N-donor ligands for 1D, 2D and 3D coordination polymers with functional properties.*

- C. Pettinari, R. Pettinari, **F. Marchetti**, A. Cingolani. Siena, 11-16 luglio 2005, XXXIII Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. Pag. P077.
79. *Synthesis and characterization of Rhodium(I) and Iridium(I) tris(pyrazolyl)borate complexes. Crystal structures of κ^3 -Tp*Rh(cod) and κ^3 -Tp^{4Bo,5Me}Rh(cod).*
R. Pettinari, A. Cingolani, C. Pettinari, **F. Marchetti**. Siena, 11-16 luglio 2005, XXXIII Congresso Nazionale della Divisione di Chimica Inorganica, Abs. Atti del Conv. Pag. P078.
80. *Rh(I)-diene complexes containing tris(pyrazolyl)borate ligands.*
R. Pettinari, C. Pettinari, **F. Marchetti**, A. Cingolani. Camerino (Macerata), 10-14 settembre 2005, Vth ISOC International School of Organometallic Chemistry, Abs. Atti del Conv. pag. 85.
81. *Innovative Second-Generation Ba and Sr Precursors for the Chemical Vapor Deposition of Ba_{1-x}Sr_xTiO₃ Thin Films.*
G. A. Battiston, R. Gerbasi, G. Carta, **F. Marchetti**, C. Pettinari, D. Barreca, C. Maragno, E. Tondello. Bressanone, 4-7 dicembre 2005, SAMIC (Syntheses and Methodologies in Inorganic Chemistry) 2005, Abs. Atti del Conv. pag. P11.
82. *Chimica di coordinazione di arene rutenio(II) con leganti acilpirazoloni e leganti scorpionati.*
A. Cerquetella, C. Pettinari, **F. Marchetti**, R. Pettinari, C. Di Nicola, A. Cingolani. Camerino, 29 giugno - 1 luglio 2006, XXV Convegno Interregionale TUMA della Società Chimica Italiana, Abs. Atti del Conv., pag. 20.
83. *Sintesi di polimeri di coordinazione pirazolici del rame(II) con centri trimerici come unità di costruzione secondaria, materiali porosi con potenziali proprietà adsorbenti e catalitiche.*
C. Di Nicola, C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cerquetella, Jean Ngoune, A. Cingolani. Camerino, 29 giugno - 1 luglio 2006, XXV Convegno Interregionale TUMA della Società Chimica Italiana, Abs. Atti del Conv., pag. 21.
84. *Sintesi e caratterizzazione di polimeri di coordinazione pirazolici con Cu, Cd, Zn.*
J. Ngoune, C. Di Nicola, C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cerquetella, A. Cingolani. Camerino, 29 giugno - 1 luglio 2006, XXV Convegno Interregionale TUMA della Società Chimica Italiana, Abs. Atti del Conv., pag. 22.
85. *Groups 8 and 9 Derivatives of Scorpionates.*
A. Cingolani, M. Chierotti, **F. Marchetti**, R. Gobetto, J. Ngoune, C. Pettinari, R. Pettinari. Parma, 9-12 luglio 2006, VII° Co.G.I.C.O. 2006 Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv. pag. 18, O12.
86. *Synthesis and Characterization of R₂Sn(IV) oxydiacetate (ODA) and iminodiacetate(IDA) complexes.*
C. Di Nicola, C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cingolani, A. Cerquetella, J. Ngoune. Parma, 9-12 luglio 2006, VII° Co.G.I.C.O. 2006 Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv. pag. 55, P15.
87. *Synthesis and Characterization and PGSE NMR Studies on (η^5 -C₅Me₅)-Rhodium(III) and Iridium(III) derivatives with bis(pyrazolyl)alkane Ligands.*
R. Pettinari, C. Pettinari, **F. Marchetti**, A. Macchioni, D. Zuccaccia. Parma, 9-12 luglio 2006, VII° Co.G.I.C.O. 2006 Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv. pag. 70, P30.
88. *Rhodium, Iridium and Ruthenium derivatives containing poly(pyrazol-1-yl)-borate and alkane ligands.*
C. Pettinari, R. Pettinari, A. Cingolani, **F. Marchetti**, C. Di Nicola. Zaragoza, 23-28 luglio 2006, XXII International Conference of Organometallic Chemistry, Abs. Atti del Conv., vol. 2, pag. 273, P85.
89. *Organotin derivatives of poly(azolyl)-borates and alkanes.*

- C. Pettinari, R. Pettinari, A. Cingolani, **F. Marchetti**, C. Di Nicola, J. Ngoune. Zaragoza, 23-28 luglio 2006, XXII International Conference of Organometallic Chemistry, Abs. Atti del Conv., vol. 2, pag. 341, P153.
90. *Arene-Ruthenium(II) Scorpionates Coordination Chemistry.*
F. Marchetti, C. Pettinari, A. Cingolani, R. Pettinari, A. Cerquetella, C. Di Nicola, M. Monari. Firenze, 10-15 settembre 2006, XXII Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv., pag. 329, INO-P-84.
 91. *Arene-Ruthenium(II) 4-Acyl-5-pyrazolonate Derivatives: Coordination Chemistry, Redox Properties and Reactivity.*
F. Marchetti, C. Pettinari, A. Cingolani, R. Pettinari, C. Di Nicola, A. Cerquetella, A. Cingolani, A. H. White, A. J. Pombeiro. Milano, 3-7 settembre 2007, XXXV Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Abs. Atti del Conv., pag. 39.
 92. *Synthesis and Characterization of New Multifunctional Zn(II) Complexes.*
A. Bellusci, A. Crispini, M. Ghedini, P. L. Liguori, **F. Marchetti**, C. Pettinari, D. Pucci. Milano, 3-7 settembre 2007, XXXV Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Abs. Atti del Conv., pag. 93.
 93. *Arene-Ruthenium(II) 4-Acyl-5-pyrazolonate Derivatives: Coordination Chemistry, Redox Properties, Reactivity and Antitumor Activity.*
A. Cerquetella, **F. Marchetti**, C. Pettinari, R. Pettinari, C. Di Nicola, A. Cingolani, A. H. White, A. J. Pombeiro. Camerino, 8-12 Settembre 2007, 6th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 49.
 94. *Coordination Chemistry of Acylpyrazolones: New Zn(II) Complexes.*
A. Bellusci, A. Crispini, M. Ghedini, P. L. Liguori, **F. Marchetti**, C. Pettinari, D. Pucci. Camerino, 8-12 Settembre 2007, 6th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 80.
 95. *Arene-Ruthenium(II) of bis(pyrazol-1-yl)acetate Derivatives: Coordination Chemistry and Reactivity.*
A. Marinelli, A. Cerquetella, C. Crosta, **F. Marchetti**, R. Pettinari, C. Di Nicola, M. Monari. Camerino, 8-12 settembre 2007, 6th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 86.
 96. *Recent Advances and Unprecedented Denticity of Tris(pyrazolyl)borate Ligands in Rh(I) 1,5-Cyclooctadiene Complexes.*
R. Pettinari, A. Marinelli, J. Ngoune, A. Cerquetella, C. Crosta, **F. Marchetti**. Camerino, 8-12 Settembre 2007, 6th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 109.
 97. *Derivati arenerutenio(II) con leganti 4-acil-5-pirazoloni: chimica di coordinazione, proprietà redox e reattività.*
A. Cerquetella, **F. Marchetti**, C. Pettinari, R. Pettinari, A. Cingolani, A. H. White, A. J. L. Pombeiro. Assisi, Pro Civitate Christiana, 26-28 Settembre 2007, XXVI Convegno Interregionale TUMA 2007, Abs. Atti Del Conv., pag. 16.
 98. *Coordination polymers: syntheses, spectroscopic and structural characterization of silver(I) complexes with P, OR N- donor ligands.*
J. Ngoune, C. Di Nicola, C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cerquetella, A. Cingolani. Assisi, Pro Civitate Christiana, 26-28 Settembre 2007, XXVI Convegno Interregionale TUMA 2007, Abs. Atti Del Conv., pag. 45.
 99. *Polimeri di Coordinazione Contenenti Leganti Azotati: Nuove Prospettive per Materiali Innovativi.*

- C. Di Nicola, C. Pettinari, **F. Marchetti**, R. Pettinari, A. Marinelli, A. Cerquetella, A. Pizzabiocca, A. Cingolani, N. Masciocchi, A. Sironi, S. Galli, E. Alberti, L. Pandolfi. L'Aquila, 23-25 Giugno 2008, XXVII Congresso Interregionale TUMA 2008, Abs. Atti del Conv., pag. 17.
100. *Chimica di Coordinazione del Rame(II) e dell'Argento(I) con Leganti Azotati e Derivati Fosfinici. Nuove Prospettive per Materiali Luminescenti e con Potenziali Applicazioni Biologiche.*
A. Marinelli, C. Pettinari, **F. Marchetti**, R. Pettinari, C. Di Nicola, A. Cerquetella, A. Cingolani, A. Pizzabiocca, L'Aquila, 23-25 Giugno 2008, XXVII Congresso Interregionale TUMA 2008, Abs. Atti del Conv., pag. 67.
 101. *Solid State and Solution Structures of Organometallic Derivatives of Scorpionates.*
R. Pettinari, C. Pettinari, **F. Marchetti**, J. Ngoune, A. Marinelli, A. Cingolani. Perugia, 25-28 Giugno 2008, VIII Co.G.I.C.O. 2008 Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 44.
 102. *Switching between κ^2 and κ^3 bis(azol-1-yl)acetate ligands. Synthesis, Spectral, Electrochemical, Structural and Theoretical Studies on (arene)Ru(II) Derivatives of Bis(azol-1-yl)acetate Ligands.*
F. Marchetti, C. Pettinari, A. Cerquetella, R. Pettinari, A. Cingolani, M. Monari, A. J. Pombeiro. Perugia, 25-28 Giugno 2008, VIII Co.G.I.C.O. 2008 Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 58.
 103. *Synthesis and Structural Characterization of (arene)Ru(II) Complexes with Bis(pyrazolyl)alkane Ligands. Study of the Interionic Structure through Diffusion and NOE NMR Experiments.*
F. Marchetti, C. Pettinari, A. Cerquetella, C. Di Nicola, A. Pizzabiocca, M. Monari, A. Macchioni, D. Zuccaccia. Perugia, 25-28 Giugno 2008, VIII Co.G.I.C.O. 2008 Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 72.
 104. *New Insights in Selective Catalytic Olefin Oxidations Promoted by novel Oxovanadium(IV) Complexes and Hydrogen Peroxide.*
M. Crucianelli, A. Di Giuseppe, C. Pettinari, **F. Marchetti**, C. Di Nicola, A. Crispini, A. Bellusci. Perugia, 25-28 Giugno 2008, VIII Co.G.I.C.O. 2008 Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 81.
 105. *Synthesis and Characterization of Polymeric Species Containing Btz and Bim ligands [(Btz = Bis(1,2,4-triazol-1-yl)methane) and Bim = Bis(1-imidazolyl)methane]*
R. Pettinari, A. Cingolani, **F. Marchetti**, C. Pettinari, N. Masciocchi. Camerino, 16-18 Gennaio 2009, New hybrid metal.organic materials, Abs. Atti del Conv., pag. 3.
 106. *Synthesis and Characterization of new mono- or polynuclear coordination complexes with luminescent properties, based on mono- or bidentate N- or P-donor ligands and copper(I) or silver(I) salts.*
C. Di Nicola, C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cingolani, A. Marinelli. Camerino, 16-18 Gennaio 2009, New hybrid metal.organic materials, Abs. Atti del Conv., pag. 4.
 107. *Coordination polymers based on pyrazolonate ligands.*
C. Pettinari, **F. Marchetti**, R. Pettinari, A. Cingolani, A. Drozdov. Camerino, 16-18 Gennaio 2009, New hybrid metal.organic materials, Abs. Atti del Conv., pag. 24.
 108. *Synthesis and characterization of new polytopic ligands based on the 1,3,5-triazine spacer and pyrazolyl, tris-pyrazolylmethyl and this-pyrazolylethoxy bonding fragments.*
C. Pettinari, F. Garau, M. Monari, L. Pandolfo, R. Pettinari, **F. Marchetti**. Sorrento, 5-10 Luglio 2009, XXIII Congresso Nazionale S.C.I., Abs. Atti del Conv., pag. 261-INO-PO-35.
 109. *Synthesis, structural characterization, cytotoxicity and molecular docking of triphenyltin(IV) 2-[(E)-2-(aryl)-1-diazenyl]benzoates.*

- A. Paul, T. S. Basu Baul, L. Pellerito, P. Sing, D. de Vos, **F. Marchetti**, C. Pettinari. Camerino, 5-9 Settembre 2009, 7th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 26.
110. *Reactivity of novel heteroscorpionates with arene ruthenium(II) fragments.*
A. Cerquetella, A. Marinelli, I. Timokhin, **F. Marchetti**, C. Pettinari, R. Pettinari, C. Di Nicola, A. J. L. Pombeiro. Camerino, 5-9 Settembre 2009, 7th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 33.
111. *Arene Ru(II) complexes with bis(pyrazol-1-yl)-methane and -acetate ligands.*
A. Marinelli, A. Cerquetella, I. Timokhin, **F. Marchetti**, C. Pettinari, R. Pettinari, C. Di Nicola, A. Cingolani. Camerino, 5-9 Settembre 2009, 7th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 67.
112. *Rh(III) and Ir(III) complexes of bis(pyrazolyl)diphenylborate ligand: hydrolysis of the B-N bond and benzene C-H activation.*
R. Pettinari, A. Marinelli, A. Cerquetella, **F. Marchetti**, C. Pettinari, C. Di Nicola, M. Monari. Camerino, 5-9 Settembre 2009, 7th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 76.
113. *Synthesis of organometallic ruthenium(II) complexes with of Curcumin.*
R. Pettinari, A. Marinelli, **F. Marchetti**, C. Pettinari, C. Di Nicola, A. Pizzabiocca. Camerino, 5-9 Settembre 2009, 7th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. 77.
114. *Complessi di ossovanadio(IV) con leganti acilpirazolonati: sintesi, caratterizzazione e proprietà catalitiche.*
C. Di Nicola, A. Marinelli, R. Pettinari, **F. Marchetti**, A. Cingolani, A. Pizzabiocca, A. Di Giuseppe, M. Crucianelli. Tirrenia (Pi), 20-22 Settembre 2009, XXVIIIth Congresso Interregionale TUMA 2009, Abs. Atti del Conv., pag. P8.
115. *Organometallic Ruthenium(II) Curcumin Complexes with in-vitro Anticancer Activity*
F. Marchetti, R. Pettinari, C. Pettinari, C. Di Nicola, M. Bramucci, L. Quassinti, G. Lupidi. Firenze (FI), 8-11 giugno 2010, Co.G.I.C.O. 9, 9° Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. P23.
116. *Novel Arene Ruthenium(II) Acylpyrazolonate Complexes with in-vitro Anticancer Activity*
C. Pettinari, **F. Marchetti**, R. Pettinari, E. Monti, M. G. Gariboldi, M. Rossi, F. Caruso. Firenze (FI), 8-11 giugno 2010, Co.G.I.C.O. 9, 9° Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. P27.
117. *Sintesi e caratterizzazione di nuovi complessi di rame(I) con proprietà fotoluminescenti e triboluminescenti*
C. Di Nicola, C. Pettinari, **F. Marchetti**, R. Pettinari, A. Marinelli. Ancona (AN), 30 settembre-1 ottobre 2010, XIX Convegno Interregionale TUMA, Abs. Atti del Conv., pag. OR9.
118. *Nuovi derivati di Zn, Cd e Hg conleganti bis indazolici*
A. Marinelli, C. Pettinari, **F. Marchetti**, C. Di Nicola, A. Galindo, E. Alvarez. Ancona (AN), 30 settembre-1 ottobre 2010, XIX Convegno Interregionale TUMA, Abs. Atti del Conv., pag. OR21.
119. *Coordination Chemistry of two N₂-donor chelating di(indazolyl)methane ligands: structural characterization and comparison of their metal chelation aptitudes*
E. Alvarez, A. Galindo, **F. Marchetti**, A. Marinelli, C. Pettinari, R. Pettinari. Trieste, 13-16 settembre 2010, XXXVIII Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Abs. Atti del Conv., pag. P65.
120. *Solid-State ¹⁵N CPMAS NMR and computational analysis of ligand apticity in rhodium poly(pyrazolyl)borate diene complexes*

- R. Gobetto, R. Pettinari, C. Pettinari, **F. Marchetti**, C. Nervi, M. R. Chierotti, B. W. Skelton, A. H. White. Trieste, 13-16 settembre 2010, XXXVIII Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Abs. Atti del Conv., pag. P34.
121. *Syntheses, structures, and spectroscopy of uni- and bi-dentate nitrogen base complexes of silver(I) trifluoromethanesulfonate*
C. Di Nicola, **F. Marchetti**, C. Nervi, C. Pettinari, R. Pettinari. Trieste, 13-16 settembre 2010, XXXVIII Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Abs. Atti del Conv., pag. P64.
122. *Electrochemical study of $(\eta^6\text{-cymene})\text{ruthenium(II)}$ complexes bearing bis-, tris- and tetrakis(pyrazol-1-yl)borate ligands*
L. M. D. R. S. Martins, C. Pettinari, **F. Marchetti**, A. Cerquetella, R. Pettinari, M. Monari, T. C. O. MacLeod, A. J. L. Pombeiro. Algarve (Portogallo), 11 febbraio 2011, "2^{as} Jornadas de Electroquímica e Inovação", University of Algarve, Abs. Atti del Conv., P6 pag. 21.
123. *The National Project "Piano Lauree Scientifiche in Chimica" at Camerino*
C. Di Nicola, **F. Marchetti**, I. Timokhin, R. Pettinari, C. Pettinari. Camerino, 08 giugno 2011, 1st Scientific Day Of The School Of Science And Technology, Abs. book of Abstract, pag. P5.
124. *Coordination Chemistry of di(indazolyl)methane Ligands Toward Silver(I) Salts*
F. Marchetti, S. Orbisaglia, C. Di Nicola, C. Pettinari. Camerino, 08 giugno 2011, 1st Scientific Day Of The School Of Science And Technology, Abs. book of Abstract, pag. P16.
125. *New Luminescent Porous MOFs*
F. Marchetti, C. Di Nicola, A. Tabacaru, M. Angjellari, C. Pettinari. Camerino, 08 giugno 2011, 1st Scientific Day Of The School Of Science And Technology, Abs. book of Abstract, pag. P24.
126. *New Triboluminescent Copper-Based Sensors*
F. Marchetti, C. Di Nicola, I. Timokhin, R. Pettinari, C. Pettinari. Camerino, 08 giugno 2011, 1st Scientific Day Of The School Of Science And Technology, Abs. book of Abstract, pag. P25.
127. *Coordination chemistry of di(indazolyl)methane ligands toward silver(I) salts*
S. Orbisaglia, C. Pettinari, **F. Marchetti**, C. Di Nicola, E. Álvarez, A. Galindo. Perugia, 30 giugno-01 luglio 2011, XXX Congresso Interregionale TUMA 2011, Abs. Atti del Conv., pag. 36 (O19).
128. *Coordination chemistry and bioactivity of di(indazolyl)methane ligands toward silver(I) salts*
S. Orbisaglia, C. Pettinari, **F. Marchetti**, C. Di Nicola, E. Álvarez, A. Galindo. Certosa di Pontignano, Siena 3-6 luglio, 2011, Scuola Nazionale di Chimica Bioinorganica, Abs. Atti del Conv., pag. P22.
129. *Metal-Assisted Formation of New Hydroxy(pyrazolyl)diphenylborate Ligands*
R. Pettinari, **F. Marchetti**, C. Pettinari, C. Di Nicola, I. Timokhin, A. Tabacaru, M. Monari. Camerino 27-31 Agosto 2011, 8th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P44.
130. *Synthesis of Schiff-bases ruthenium(II) arene complexes*
R. Pettinari, **F. Marchetti**, C. Pettinari, C. Di Nicola, S. Orbisaglia, A. Pizzabiocca, A. Cingolani. Camerino 27-31 Agosto 2011, 8th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P45.
131. *New metal-organic frameworks based on the flexible 1,4-bis(3,5-dimethyl-1H-pyrazol-4-yl)methyl)benzene and 4,4'-bis(3,5-dimethyl-1H-pyrazol-4-yl)methyl)biphenyl ligands with different transition metals*
A. Tabacaru, C. Pettinari, N. Masciocchi, S. Galli, **F. Marchetti**, C. Di Nicola, R. Pettinari, M. Angjellari. Granada (Spain) 4-8 Settembre 2011, 5th EuCheMS Conference on Nitrogen Ligands, Atti del Conv., pag. 241.

132. *Teaching and learning of the concept of chemical equilibrium*
M. Ghirardi, **F. Marchetti**, C. Pettinari, A. Regis, E. Roletto. Lecce 11-16 Settembre 2011, XXIV Congresso Nazionale della Società Chimica Italiana, Atti del Conv., pag. 237.
133. *New heterogeneous catalysts based on oxovanadium(IV) complex anchored on mesoporous silica support: synthesis, characterization and study of oxidative catalysis under mild conditions*
C. Di Nicola, M. Crucianelli, C. Pettinari, **F. Marchetti**, R. Pettinari, I. Timokhin, S. Orbisaglia, J. Palmucci. Camerino 6 Giugno 2012, 2nd Scientific Day of School of Science and Technology UNICAM, Atti del Conv., pag. 5.
134. *Coordination chemistry of new half-sandwich arene ruthenium(II) scorpionate complexes*
S. Orbisaglia, C. Di Nicola, R. Pettinari, **F. Marchetti**, C. Pettinari. Camerino 6 Giugno 2012, 2nd Scientific Day of School of Science and Technology UNICAM, Atti del Conv., pag. 15.
135. *Silver(I) acylpyrazolonates with biological activity*
J. Palmucci, C. Di Nicola, **F. Marchetti**, C. Pettinari, R. Pettinari. Camerino 6 Giugno 2012, 2nd Scientific Day of School of Science and Technology UNICAM, Atti del Conv., pag. 17.
136. *Nuovi derivati arene rutenio(II) con attività catalitica e biologica*
F. Marchetti, R. Pettinari, C. Di Nicola, S. Orbisaglia, J. Palmucci, A. Pizzabiocca, C. Pettinari. Francavilla al Mare (CH) 18-20 Giugno 2012, XXXI Congresso Interregionale TUMA 2012, Atti del Conv..
137. *Nuovi complessi "half-sandwich" (arene)rutenio(II) con leganti scorpionati: sintesi, caratterizzazione e attività catalitica*
S. Orbisaglia, C. Di Nicola, R. Pettinari, **F. Marchetti**, C. Pettinari. Francavilla al Mare (CH) 18-20 Giugno 2012, XXXI Congresso Interregionale TUMA 2012, Atti del Conv..
138. *Nuovi derivati di Argento(I) con leganti acilpirazolonici: sintesi, caratterizzazione e attività biologica*
J. Palmucci, C. Di Nicola, **F. Marchetti**, C. Pettinari, Mirko Marangoni. Francavilla al Mare (CH) 18-20 Giugno 2012, XXXI Congresso Interregionale TUMA 2012, Atti del Conv..
139. *Poly(Pyrazolyl)Borates And Poly(Pyrazolyl)Alkanes Groups 8 And 9 Organometallic Derivatives: New Perspectives For Catalysis And Materials*
Claudio Pettinari, **Fabio Marchetti**, Riccardo Pettinari, Corrado Di Nicola, Serena Orbisaglia. Lisbon (Portugal) 2-7 Settembre 2012, XXV ICOMC International Conference on Organometallic Chemistry, Abs. Atti del Conv., K.2.
140. *(Arene)Ruthenium(II) Chemistry, From Organometallics And Catalysis To Biomedical Applications*
Fabio Marchetti, Riccardo Pettinari, Claudio Pettinari, Corrado Di Nicola, Brian W. Skelton, Allan H. White. Lisbon (Portugal) 2-7 Settembre 2012, XXV ICOMC International Conference on Organometallic Chemistry, Abs. Atti del Conv., S7.5.
141. *Catalytic Oxidation Of Olefins By Oxovanadium(IV) Complexes, With Different Donor Ligands, Covalently Attached On SBA-15*
Marcello Crucianelli, Andrea Di Giuseppe, Daniela Meloni, Italo Ferino, Claudio Pettinari, **Fabio Marchetti**, Corrado Di Nicola. Lisbon (Portugal) 2-7 Settembre 2012, XXV ICOMC International Conference on Organometallic Chemistry, Abs. Atti del Conv., F2.25.
142. *New Half-Sandwich (Arene)Ruthenium(II) Scorpionates Complexes: Useful Compounds In Organometallic Chemistry And Catalysis*
Serena Orbisaglia, Corrado Di Nicola, Riccardo Pettinari, **Fabio Marchetti**, Claudio Pettinari. Lisbon (Portugal) 2-7 Settembre 2012, XXV ICOMC International Conference on Organometallic Chemistry, Abs. Atti del Conv., PB.292.
143. *Novel silver(I) coordination polymers based on the 4,4'-bipyrazolyl ligand having powerful bactericide activity*

- Aurel Tăbăcaru, Claudio Pettinari, **Fabio Marchetti**, Corrado di Nicola, Konstantin V. Domasevitch, Simona Galli, Norberto Masciocchi, Stefania Scuri, Iolanda Grappasonni, Mario Cocchioni. Philadelphia, Pennsylvania, USA. 19-23 Agosto 2012, 244th American Chemical Society National Meeting and Exposition, Abs. Atti del Conv., INOR180.
144. *Electrochemical study of (η^5 -C₅Me₅)-Rhodium and -Iridium Derivatives Containing Bis(pyrazolyl)alkane Ligands*,
L. M. D. R. S. Martins, C. Pettinari, R. Pettinari, **F. Marchetti**, A. J. L. Pombeiro. Porto, Portugal. 25-27 March 2013, 18th Meeting of the Portuguese Electrochemical Society, Abs. Atti del Conv., P 23, p. 81 (ISBN: 978-989-95527-1-5).
 145. *New biologically active are Ru(II) complexes with curcumin*
F. Condello, R. Pettinari, **F. Marchetti**, C. Pettinari. Camerino, Italy. 12 June 2013, 3rd Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., p. 7 (ISBN: 9788867680122).
 146. *Synthesis, characterization and catalytic activity of cationic NHC gold(I/III) pyridine complexes*
S. Orbisaglia, B. Jacques, P. de Frémont, P. Braunstein, D. Hueber, P. Pale, A. Blanc, C. Di Nicola, **F. Marchetti**, C. Pettinari. Camerino, Italy. 12 June 2013, 3rd Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., p. 17 (ISBN: 9788867680122).
 147. *Novel polyethylene-embedded silver(I) acylpyrazolonate complexes with potent antibacterial activity*
J. Palmucci, S. Scuri, M. Marangoni, **F. Marchetti**, R. Pettinari, C. Pettinari. Camerino, Italy. 12 June 2013, 3rd Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., p. 20 (ISBN: 9788867680122).
 148. *Enlarging an isorecticular family: 2,2',5,5'-tetramethyl-4,4'-bipyrazolato-based porous coordination polymers*
A. Tabacaru, C. Pettinari, I. Timokhin, **F. Marchetti**, F. Carrasco-Marín, F. J. Maldonado-Hódar, S. Galli, N. Masciocchi. Camerino, Italy. 12 June 2013, 3rd Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., p. 25 (ISBN: 9788867680122).
 149. *Novel coordination frameworks incorporating 3,5-dimethyl-4-carboxypyrazole*
N. Xhaferaj, A. Tabacaru, C. Pettinari, **F. Marchetti**, R. Pettinari, S. Galli, N. Masciocchi, K. V. Domasevitch. Camerino, Italy. 12 June 2013, 3rd Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., p. 27 (ISBN: 9788867680122).
 150. *Bioactive Ru(II)-Arene Complexes with Natural Polyphenolic Ligands as Anticancer Metallodrugs*
F. Condello, R. Pettinari, **F. Marchetti**, C. Pettinari, J. Palmucci, S. Orbisaglia, M. Cuccioloni, A. M. Eleuteri, V. Cecarini, L. Bonfili, M. Mozzicafreddo. Camerino, Italy. 30 August – 3 September 2013, 9th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P34.
 151. *Dinuclear Arene Ruthenium(II) Complexes with 3,3',5,5'-Tetramethyl-4,4'-Bipyrzole and Modulation of Proteasome Activity*
A. Tabacaru, N. Xhaferaj, R. Pettinari, **F. Marchetti**, C. Pettinari, M. Cuccioloni, A. M. Eleuteri. Camerino, Italy. 30 August – 3 September 2013, 9th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P43.
 152. *Silver(I) Acylpyrazolonate Complexes Embedded in Polyethylene with Potent Antibacterial Activity*
J. Palmucci, S. Scuri, M. Marangoni, F. Condello, S. Orbisaglia, **F. Marchetti**, C. Pettinari. Camerino, Italy. 30 August – 3 September 2013, 9th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P47.
 153. *Novel (arene)Ruthenium(II) Complexes with halogen-substituted Scorpionates: Synthesis and Structural, Electrochemical and Catalytic Studies*
S. Orbisaglia, C. Di Nicola, F. Condello, J. Palmucci, R. Pettinari, **F. Marchetti**, C. Pettinari, L. M. D. R. S. Martins, E. C. B. A. Alegria, M. F. C. Guedes da Silva, B. G. M. Rocha, A. J. L. Pombeiro, B. W.

- Skelton, A. H. White. Camerino, Italy. 30 August – 3 September 2013, 9th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P67.
154. *Synthesis, Characterisation, and catalytic Activity of Novel Pd(II) Complexes Containing 4-Substituted Bis(Pyrazolyl)Methane Ligands*
C. Di Nicola, **F. Marchetti**, C. Pettinari, M. Crucianelli, C. Lelii, A. Crispini. Camerino, Italy. 30 August – 3 September 2013, 9th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P95.
 156. *Antiproliferative Activity of a New (Arene)Ruthenium(II) Complex on a Model of Breast Cancer*
F. Marchetti, C. Di Nicola, R. Pettinari, C. Pettinari, M. Montani, G. V. Badillo Pazman, A. Amici, G. Lupidi, C. Marchini. Camerino, Italy. 30 August – 3 September 2013, 9th International School of Organometallic Chemistry, Abs. Atti del Conv., pag. P100.
 157. *Coordination of Hydrazone Ligands to η^6 -arene Ruthenium(II) Derivatives: Synthesis, Characterization and Bioactivity*
F. Condello, G. Buccolini, S. Orbisaglia, J. Palmucci, A. Petrini, R. Petrelli, L. Cappellacci, A. J.L. Pombeiro, G. Lupidi, R. Pettinari, **F. Marchetti**, C. Pettinari. Camerino, Italy. 11 June 2014, 4th Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., pag. 7.
 158. *Coordination Chemistry of Scorpionate-type Ligands*
S. Orbisaglia, J. Palmucci, F. Condello, A. Petrini, C. Di Nicola, R. Pettinari, **F. Marchetti**, C. Pettinari. Camerino, Italy. 11 June 2014, 4th Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., pag. 12.
 159. *Synthesis, Characterization and Catalytic Activity of New Arylhydrazones of Barbituric Acid Complexes with Co(II), Cu(II) and Ag(I)*
J. Palmucci, M. F. C. Guedes da Silva, **F. Marchetti**, C. Pettinari, R. Pettinari, L. M. D. R. S. Martins, K. T. Mahmudov, A. J. L. Pombeiro. Camerino, Italy. 11 June 2014, 4th Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., pag. 15.
 160. *New Ruthenium(II) Arene Complexes with N,O-Chelating β -Ketoamine Ligands: Synthesis, Structure and Biological Activity*
A. Petrini, F. Condello, S. Orbisaglia, J. Palmucci, **F. Marchetti**, R. Pettinari, C. Pettinari, P.J. Dyson. Camerino, Italy. 11 June 2014, 4th Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., pag. 17.
 161. *1,3-Bis(1,2,4-triazolyl)adamantine-based Coordination Polymers*
N. Xhaferaj, A. Tabacaru, C. Pettinari, **F. Marchetti**, S. Galli, N. Masciocchi, K. V. Domasevitch. Camerino, Italy. 11 June 2014, 4th Scientific Day of Science and Technology, UNICAM, Abs. Atti del Conv., pag. 25.
 162. *Biological and Catalytic Applications of Metal Complexes Based on Scorpionate –type Ligands*
C. Pettinari, **F. Marchetti**, R. Pettinari. Milano, Italy. 24-27 June 2014, Co.G.I.C.O.2014, XI Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 28 (KN02).
 163. *Selective Anticancer Ruthenium(II) Arene RAPTA Type Complexes Containing Curcuminoids*
F. Condello, S. Orbisaglia, J. Palmucci, A. Petrini, R. Pettinari, **F. Marchetti**, C. Pettinari, P. J. Dyson. Milano, Italy. 24-27 June 2014, Co.G.I.C.O.2014, XI Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 42 (OC08).
 164. *New Half-Sandwich Ruthenium(II) Complexes Bearing Hydrazone Ligands: Organometallic Chemistry and Bioactivity*
S. Orbisaglia, F. Condello, J. Palmucci, A. Petrini, R. Petrelli, L. Cappellacci, A. J. L. Pombeiro, G. Lupidi, R. Pettinari, **F. Marchetti**, C. Pettinari. Milano, Italy. 24-27 June 2014, Co.G.I.C.O.2014, XI Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 77 (P23).

165. *Novel Composite Plastics Containing Silver(I) Acylpyrazolonate Additives Display Potent Antimicrobial Activity*
J. Palmucci, **F. Marchetti**, S. Scuri, M. Marangoni, F. Condello, A. Petrini, S. Orbisaglia, R. Gobetto, R. Pettinari, C. Pettinari. Milano, Italy. 24-27 June 2014, Co.G.I.C.O.2014, XI Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 78 (P24).
166. *Synthesis, Structures and Antiproliferative Activity of Novel Ru(II)-Arene Complexes with N,O-Chelating β -Ketoamine Ligands*
A. Petrini, F. Condello, J. Palmucci, S. Orbisaglia, **F. Marchetti**, R. Pettinari, C. Pettinari, P. J. Dyson. Milano, Italy. 24-27 June 2014, Co.G.I.C.O.2014, XI Congresso del Gruppo Interdivisionale di Chimica Organometallica, Abs. Atti del Conv., pag. 80 (P26).
167. *Synthesis, Structures and Antiproliferative Activity of Novel Ru(II)-Arene Complexes with N,O- and O,O-Chelating Ligands*
C. Pettinari, R. Pettinari, **F. Marchetti**, F. Condello, J. Palmucci, A. Petrini, S. Orbisaglia, P. J. Dyson. Arcavacata di Rende, Italy. 7-12 September 2014, XXV Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv., pag. 67 (INO-O26).
168. *Global Competences and Philosophical Implications in Chemical Education*
T. Celestino, **F. Marchetti**. Arcavacata di Rende, Italy. 7-12 September 2014, XXV Congresso Nazionale della Società Chimica Italiana, Abs. Atti del Conv., pag. 98 (DID-O1).
169. *Novel Co, Cu, Zn and Cd MOFs with pyrazolyl based tectons. Adsorption ability and catalytic activity for the peroxidative oxidation of alcohols and cyclohexane*
F. Marchetti, C. Pettinari, S. Galli, I. Timokhin, R. Pettinari, E. C. B. A. Alegria, L. M. D. R. S. Martins, A. J. L. Pombeiro. Maribor, Slovenia. 21-23 September 2014, 1st European Conference on Smart Inorganic Polymers, Abs. Atti del Conv., pag. 59 (PO-13).
170. *Novel Coordination Polymers Based on Bis- and Tris-pyrazolyl Ligands*
A. Tabacaru, C. Pettinari, **F. Marchetti**, S. Galli, N. Xhaferaj, A. Rossin, M. Peruzzini. Maribor, Slovenia. 21-23 September 2014, 1st European Conference on Smart Inorganic Polymers, Abs. Atti del Conv., pag. 38 (OP-20).
171. *Global Competences in Chemical Education by Systems Approach.*
T. Celestino, **F. Marchetti**. Madrid, Spain. 2-4 March 2015. 9th International Technology, Education and Development Conference, Abs. Atti del Conv. 9th INTED Conference, p. 1635- 1642. IATED Academy. ISBN: 978-84-606-5763-7.
172. *Synthesis and Characterization of New Ruthenium(II) Arene Acylpyrazolone Complexes.*
J. Palmucci, **F. Marchetti**, F. Condello, A. Petrini, R. Pettinari, N. Mosca, C. Pettinari. Camerino, Italy. 4-9 September 2015. 10th International School of Organometallic Chemistry, Abs. Atti del Conv., p. 25. ISBN: 978-86-768-024-5.
173. *Synthesis and Biological Evaluations of Novel Arene Ruthenium(II) Complexes of 4-acyl-5-pyrazolone-based Hydrazone Ligands.*
F. Condello, J. Palmucci, A. Petrini, I. Torquati, R. Petrelli, L. Cappellacci, A. Hofer, F. Ranjbarian, A. J. L. Pombeiro, G. Lupidi, R. Pettinari, **F. Marchetti**, C. Pettinari. Camerino, Italy. 4-9 September 2015. 10th International School of Organometallic Chemistry, Abs. Atti del Conv., p. 35. ISBN: 978-86-768-024-5.
174. *Ruthenium(II)-Arene RAPTA Complexes Bearing Dibenzoylmethane: Organometallic Chemistry and Biological Activity.*
A. Petrini, F. Condello, J. Palmucci, G. Lupidi, M. Nabissi, A. Rodríguez Diéguez, R. Pettinari, **F. Marchetti**, C. Pettinari. Camerino, Italy. 4-9 September 2015. 10th International School of Organometallic Chemistry, Abs. Atti del Conv., p. 37. ISBN: 978-86-768-024-5.
175. *Anti-tumor activity of a new uthenium complex on a model of basal-like breast.*

- G. V. Badillo Pazmay, M. Montani, C. Pettinari, **F. Marchetti**, R. Pettinari, S. Ferraro, A. Hysi, M. Iezzi, C. Marchini, G. Lupidi, A. Amici. Camerino, Italy. 4-9 September 2015. 10th International School of Organometallic Chemistry, Abs. Atti del Conv., p. 59. ISBN: 978-86-768-024-5.
176. *Bioactivity of Curcuminoids in Half-Sandwich Ru(II), Rh(III) and Ir(III) Complexes: benefits from cooking to medicine.*
F. Condello, A. Petrini, J. Palmucci, R. Pettinari, **F. Marchetti**, C. Pettinari, P. J. Dyson. Camerino, Italy. 9-12 September 2015. XLIIIth National Congress of Inorganic Chemistry, Abs. Atti del Conv., P7 p. 81. ISBN: 978-88-676-8023-8.
177. *A DFT Study on the stability of novel polynuclear oxovanadium based complexes with acylpyrazolone donor ligands.*
M. Aschi, M. Crucianelli, **F. Marchetti**, C. Pettinari, R. Pettinari, G. Piacente. Camerino, Italy. 9-12 September 2015. XLIIIth National Congress of Inorganic Chemistry, Abs. Atti del Conv., P9 p. 83. ISBN: 978-88-676-8023-8.
178. *Synthesis, Characterization, Catalytic and Biological Activity of New Arylhydrazones of Barbituric Acid Complexes with Co(II), Cu(II) and Ag(I).*
J. Palmucci, M. F. C. Guedes da Silva, **F. Marchetti**, C. Pettinari, R. Pettinari, L. M. D. R. S. Martins, K. T. Mahmudov, G. Lupidi, D. Petrelli, A. J. L. Pombeiro. Camerino, Italy. 9-12 September 2015. XLIIIth National Congress of Inorganic Chemistry, Abs. Atti del Conv., P29 p. 103. ISBN: 978-88-676-8023-8.
179. *Synthesis, Characterization and Bioactivity of Novel Pentamethylcyclopentadienyl Rh(III) and Ir(III) Complexes Containing Dibenzoylmethane.*
A. Petrini, F. Condello, J. Palmucci, G. Lupidi, R. Pettinari, **F. Marchetti**, C. Pettinari, P. J. Dyson. Camerino, Italy. 9-12 September 2015. XLIIIth National Congress of Inorganic Chemistry, Abs. Atti del Conv., P33 p. 107. ISBN: 978-88-676-8023-8.
180. *Novel Coordination Frameworks Based on Polytopic Heteroaromatic Nitrogen and carboxylate Ligands.*
N. Mosca, N. Xhaferaj, C. Pettinari, **F. Marchetti**, R. Pettinari. Camerino, Italy. 9-12 September 2015. XLIIIth National Congress of Inorganic Chemistry, Abs. Atti del Conv., P48 p. 122. ISBN: 978-88-676-8023-8.

Attachment 2

Tutor of Degree Thesis in Chemistry:

Academic Year 1995-96:

1) Lauro Brocanelli: "Sintesi di nuovi leganti b-dicarbonilici e reattività nei confronti di accettori stannosi, stannici ed organostannici. Studi spettroscopici, analitici e strutturali dei derivati metallici".

Academic Year 1996-97:

2) Domenico De Angelis: "Importanza dell'ingombro sterico nell'interazione di nuovi acilpirazoloni con dialogeno- e diorgano-stagno(IV) e stagno(II) accettori".

Academic Year 1997-98:

3) Corrado Di Nicola: "Interazione di nuovi b-dichetoni e basi di Schiff nei confronti di ioni metallici dei gruppi 12 e 14".

4) Alessandro Stopponi: "Complessi di argento(I) con acil-pirazoloni e leganti ancillari fosforo o azoto-donatori".

5) Luca Cingolani "Interazione di azoli con accettori fosfinici di argento(I): sintesi, caratterizzazione spettroscopica e strutturale".

Academic Year 1998-99:

6) Emanuel Crescenzi: "Interazione tra fosfine bidentate ed accettori stannici ed organostannici: una nuova area di indagine per lo studio dell'effetto chelante e del principio HSAB".

7) Donatella Arriva: "Nuovi aspetti nella chimica di coordinazione degli elementi del gruppo 12 con leganti anionici β -dichetonici ed ancillari neutri N-donatori".

Academic Year 1999-2000:

8) Laura Serafini: "Interazione di nuovi leganti acilpirazoloni O_2 - ed O_4 -donatori nei confronti di accettori di rame ed argento".

9) Gabriele Fronzi: "Bis(1-fenil-3-metil-5-pirazolone)diossoareni: una nuova famiglia di agenti chelanti per controllare la nuclearità di complessi stannici ed organostannici".

10) Mirko Marangoni "Chimica di coordinazione degli acil-pirazoloni: un disegno razionale per modificare la nuclearità dei complessi metallici di Sn, Rh ed Ag".

11) Simone Moretti "Nuove strategie di sintesi di possibili precursori molecolari nella tecnica mcvd per la deposizione di films sottili dei metalli alcalino-terrosi".

Academic Year 2000-2001:

12) Francesco Rotolo "Derivati di argento contenenti b-dichetoni non fluorurati stabilizzati da basi di Lewis P-, N- ed S-donatrici".

13) Barbara Scarponi "Chimica di coordinazione di leganti polidentati bis-4-acil-5-pirazolonati e bis(pirazolil)acetati con accettori organo- e alogeno-stagno(IV)".

Academic Year 2001-2002:

14) Silvia Giacometti "Progettazione e Sviluppo di Nuovi Acilpirazoloni Polidentati quali Leganti Ausiliari nella Sintesi di Precursori Molecolari per la CVD (Chemical Vapour Deposition) di Films di Argento".

Academic Year 2002-2003:

15) Mara Matteucci "Chimica di coordinazione di Rame(I) e Argento(I) con leganti "scorpionati" bis(pirazol-1-il)acetati e bis(1,2,4-triazol-1-il)metano".

Academic Year 2003-2004:

16) Melissa Paoletti "Progettazione e Sviluppo di Nuovi Complessi di Ba e Sr precursori per materiali nanostrutturati. Sintesi, caratterizzazione e loro deposizione chimica mediante CVD".

Academic Year 2004-2005:

17) Adele Cerquetella "Sintesi di nuovi leganti O₂- ed N₂-donatori e dei loro derivati organometallici di Stagno e Rutenio".

Academic Year 2005-2006:

18) Cristian Crosta "Differenze Strutturali e Spettroscopiche nella coordinazione di fosfine e leganti azotati in complessi di Argento nello stato di ossidazione +1".

19) Alessandra Borbone "Progettazione, Sintesi e Caratterizzazione di nuovi Derivati Arene-Rutenio(II) con Acilpirazoloni e Studio della loro Attività Antineoplastica in vitro nei confronti della Linea Tumorale PC-3".

Academic Year 2006-2007:

20) Alessandro Marinelli "Studio sistematico sull'interazione tra sali di argento e rame(I) con leganti amminici e fosfinici mono- e bi-dentati. Sintesi, caratterizzazione analitica e strutturale".

21) Elisa Baldassari "Nuovi composti di stagno e argento, complessi mono-, di- e poli-nucleari precursori per nuovi materiali con proprietà funzionali e per farmaci antitumorali".

22) Alessandra Sabbatini "Progettazione e Sintesi di Derivati Fosfinici di Ag(I) e Cu(I) Luminescenti".

23) Veronica Sirocchi "Sintesi di Nuovi Derivati Fluorescenti di Rame(I) e Argento(I) con Fosfine e Leganti Azotati".

Academic Year 2007-2008:

24) Agnese Birozzi "Progettazione, Sintesi e Caratterizzazione di Nuovi Composti Di Oro, Argento e Rame con Leganti Multitopici. Nuove Prospettive nel Settore dei Materiali Innovativi".

25) Giorgio Paolini "Sintesi di Nuovi Complessi di Vanadio(IV) con Attività Catalitica nell'Ossidazione di Stirene e Benzotiofene".

26) Roberta Properzi "Progettazione, sintesi e caratterizzazione di nuovi addotti di rame (I) ioduro con leganti azotati. Nuove prospettive per materiali fotoluminescenti".

27) Mattia Fioretti "Nuovi Polimeri Inorganici di Cobalto e Nichel".

28) Riccardo Coccia "Nuovi Polimeri di Coordinazione con Leganti Azotati".

29) Fabio Maroni "Sintesi e caratterizzazione analitica e strutturale di nuovi polimeri inorganici porosi".

Academic Year 2009-2010:

30) Danilo Ciarrocchi "Sintesi e Caratterizzazione Strutturale di composti polimerici di metalli di transizione con leganti azotati ditopici".

31) Camilla Lelii "Progettazione e sintesi di nuovi leganti contenenti pirazolo e studio della loro chimica di coordinazione con vari metalli di transizione" (Università de L'Aquila)

Academic Year 2010-2011:

32) Federico Rossetti "Nuovi complessi di rutenio con proprietà catalitiche nei confronti delle reazioni di ossidazione degli alcheni".

33) Fabio Maroni "Synthesis and characterization of new biologically active Ag(I)Tpms complexes with N-, O-, P-donor ligands".

34) Stefano Lancianesi "Synthesis and characterization of new scorpionate ligands through backbone functionalization and preliminary study of their reactivity with transition metals".

35) Lorenzo Baciani "Chimica di coordinazione dei metalli dei gruppi 10, 11 e 12 con scorpionati di ultima generazione".

Academic Year 2011-2012:

36) Gionata Quacquarelli "Sintesi di Nuovi Derivati Organometallici di Rutenio".

37) Marco Glucini "Synthesis and Characterization of Metal Complexes of Arylhydrazones of Barbituric Acid".

38) Riccardo Coccia "Synthesis and Characterization of Novel Organometallic Ruthenium(II) Complexes Containing Natural β -Diketones and β -Ketoamine Ligands of Acylpyrazolones".

39) Mattia Fioretti "Toward a Pd-Catalyzed Enantioselective Intramolecular Allylic Asymmetric Amination".

Academic Year 2013-2014:

40) Giulia Buccolini "Ruthenium(II)-arene complexes containing N-O donor ligands".

41) Alice Ribera "Sulfo-Functionalized Arylhydrazones of Active Methylene Compounds as Promising Ligands for Inorganic Synthesis".

42) Georgiana Maties "Synthesis, Characterization and Antibacterial Activity of Silver Complexes with β -Diketonate and β -Ketoamine Ligands".

43) Lorenzo Ercoli "Sintesi e Caratterizzazione di Nuovi Derivati di Argento e Zinco con Leganti Acilpirazolonici".

Academic Year 2014-2015:

44) Lorenzo Baciani "Rhodium(III) and Iridium(III) Cyclopentadienyl Complexes Containing Curcuminoid Ligands as Potential Anticancer Agents".

45) Khohinur Hossain "Arene-Ruthenium(II) Complexes With Functionalized Acylpyrazolone Ligands And PTA (1,3,5-Triaza-7-Phosphaadamantane)".

46) Federica Navazio "Synthesis Of Novel Hexamethylbenzene Ruthenium Complexes With Acylpyrazolone Ligands And Investigations On Their Biological Activity".

47) Luca Bagnarelli "Sintesi di Derivati OrganoStagno(IV) Contendenti un Legante Acilpirazolone a Lunga Catena Acilica e Studio in Vitro della loro Potenziale Attività Biologica".

Tutor of PhD Thesis in Chemistry:

- 1) Adele Cerquetella "(Arene)Ruthenium(II) Coordination Chemistry with Chelating and Tripodal Oxygen- and Nitrogen-Donor Ligands: Synthesis, Characterization, Reactivity and Application" (academic years 2005/06 – 2007/08 – **PhD XXIst Cycle**).
- 2) Aurel Tabacaru "New Coordination Polymers Incorporating Rigid and Flexible Polypyrazolyl Ligands with Late Transition Metals.. Microporosity, Thermal Resistance, Photoluminescence and Antibacterial Action" (academic years 2009/10– 2012/13 – **PhD XXVth Cycle**).
- 3) Serena Orbisaglia "From pyrazole- to imidazole-based N-donor Ligands: Coordination Chemistry and Applications of New Late Transition Metals Complexes with Scorpionates, Poly(pyrazolyl)alkanes and NHCs" (academic years 2011/12 – 2013/14 – **PhD XXVIth Cycle**).
- 4) Marco Ghirardi "Teaching and Learning of the Concept of Chemical Equilibrium" (academic years 2009/10 – 2013/14 – **PhD XXVth Cycle**).
- 5) Jessica Palmucci "Novel Silver Complexes as Additives for Innovative Composite Materials with Permanent Antimicrobial Activity"(academic years 2012/13 – 2014/15 – **PhD XXVIIth Cycle**).
- 6) Nertil Xhaferaj "New Coordination Polymers and new MOFs Built with Rigid or Flexible N- and O-donor polydentate ligands. Heterogenous Catalysis, Thermal Behavior, Microporosity, Fluorescence and Biological Activity"(academic years 2013/14 – 2015/16 – **PhD XXVIIIth Cycle**).
- 7) Teresa Celestino "....."(academic years – **PhDth Cycle**).