WALTER BARATTA

CURRENT POSITION

Full professor of general chemistry, University of Udine

Personal Information

Place and date of birth Bolzano (Bz), 23 January 1964
Citizenship Italian
: Udine, via Cotonificio 108, Udine
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Work Experience

April 1996 to January 2005 researcher
UNIVERSITY OF UDINE
Professor of general and inorganic chemistry

January 2005 to October 2019 associate professor
UNIVERSITY OF UDINE
Professor of general and inorganic chemistry

Since October 2019 full professor
UNIVERSITY OF UDINE
Professor of general and inorganic chemistry

Education and Training

Date 28 April 1989
University of Pisa
Qualification degree in Chemistry

Date 1989
Scuola Normale Superiore of Pisa
Qualification diploma di Licenza in Chimica

Date 1994
Università of Pisa
Qualification PhD in Chemistry

Personal skills and competences

Native language	Italian
Other languages	English
	German

Additional data

Fellowships at research institutes

1) PhD stay, Eidgenössische Technische Hochschule (ETH), Zürich in the group of Prof. P. S. Pregosin, 1992 (1 year).
2) post doc fellowship "Alexander von Humboldt", Technische Universität München (TUM), München in the group of Prof. W. A. Herrmann, 1994-1996 (2 years).
3) August-Wilhelm Scheer Visiting Professorship 2015 and 2019, Technische Universität München (TUM), München in the group of Prof. F. E. Kühn.

International Prizes

1) 1° Prize Solvias Ligand Contest, Solvias Science Day 2008: "A new class of Highly Efficient Ru and Os Catalysts for the Reduction of Carbonyl Compounds", Basel, Swiss, 18 November 2008.
2) Thieme Chemistry Journals Award 2009, editorial group Thieme, Stuttgart, Germany, December 2008.

Academic assignments:

1) Coordinator of the PhD course in "Food and Human Health" from 2017 to 2023
2) Coordinator of the PhD course in "Food Sciences" since 2023

Teachings

1) General and inorganic chemistry of the course in Food Science and Technology
2) General chemistry of the course in Biotechnology
3) Bioinorganic chemistry of the Master's Degree in Food Science and Technology

Publications

Author of over 100 scientific publications in international journals 9 patents, index h = 41.

Research activity

Head of the research group of general and organometallic chemistry.
The research activity is focused on the synthesis, characterization and reactivity of transition metal complexes and their application in organic reactions. Within the framework of this work, highly active ruthenium catalysts for hydrogenation reactions of carbonyl compounds and dehydrogenation of alcohols were developed, which were patented and commercialized.

Participation in scientific committees

Member of the Board of the Interdivisional Group of Organometallic Chemistry (GICO) of the Italian Chemical Society since 2019.

Conferences

Invited speaker at scientific conferences

1) W. Baratta, E. Herdtweck, C. Mealli, P. Rigo, S. Stoccoro, "δ-Agostic Interactions and C-H Bond Activation Reactions in Late Transition Metal Complexes", XXI National Congress of the Italian Chemical Society, Torino, June 2003.
2) W. Baratta, M. Ballico, G. Chelucci, A. Del Zotto, S. Magnolia, K. Siega, E. Zangrando, P. Rigo, "Ruthenium Ampy Complexes for Fast Hydrogen Transfer Reactions", XXV National Congress of the Inorganic Chemistry Division of the Italian Chemical Society, Milano, September 2007.
3) W. Baratta, M. Ballico, G. Chelucci, A. Del Zotto, E. Herdtweck, S. Magnolia, K. Siega, P. Rigo, "Fast and productive Ru(II) and Os(II) catalysts for asymmetric reduction of ketones", XXIII International Conference on Organometallic Chemistry, ICOMC 2008, Rennes (France), 13-18 July 2008.
4) W. Baratta, C. Barbato, G. Chelucci, E. Herdtweck, S. Magnolia, K. Siega, P. Rigo, "Highly efficient ruthenium and osmium catalysts for asymmetric reduction of carbonyl compounds", Chemistry of Organoelement Compounds: Results and Prospects, Russian Accademy of Sciences, Moscow (Russia) 28 September – 2 October 2009.
5) W. Baratta, "Multitasking Ru and Os Catalysts for Hydrogenation vs. Dehydrogenation Reactions", X Congress of the Interdivisional Group of Organometallic Chemistry Co.G.I.C.O. 2012, Padova, 5-8 June 2012.
6) W. Baratta, "Ruthenium and osmium complexes for transfer hydrogenation, hydrogenation and dehydrogenation reactions", Chemistry for the Future 2017, Doctoral School of Chemistry and Materials Science, Pisa, 5-7 July 2017.
7) M. Ballico, R. Figliolia, W. Baratta, "Highly Efficient Hydrogenation Ruthenium and Osmium Catalysts based on Ampy type Ligands", International Conference on Chemistry for Human Development (ICCHD-2020), Heritage Institute of Technology, Kolkata (India), 9-11 January, 2020.

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Date, Udine 5 May 2023