

Cristiano Zonta

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EDUCATION & QUALIFICATION

Oct 2015 to present	Associate professor of Organic Chemistry at University of Padova.
Sep 2007 to Sep 2015	Assistant professor of Organic Chemistry at University of Padova.
Apr 2006 to Aug 2007	Post-doc position at University of Padova Topic: "Membranes with catalytic activity" Supervisor: Prof. P.M. Scrimin.
Apr 2003 to Apr 2006	Post-doc position at University of Venice Topic: "Control release from synthetic nanocapsules" Supervisor: Prof. O. De Lucchi.
Oct 2002 to Mar 2003	Post-doc position at the Krebs Institute for Biomolecular Science of the University of Sheffield. Topic: " ¹ H NMR chemical shifts in structure determination" Supervisor: Prof. C. A. Hunter.
Oct 1999 to Sep 2002	PhD in Chemistry at the Krebs Institute for Biomolecular Science of the University of Sheffield. Topic: "Experimental and computational studies of weak non covalent interactions". Supervisor: Prof. C. A. Hunter.
October 1992 to May 1999	Masters Degree in Industrial Chemistry (110/110) at the University of Venice. Title of thesis: "Synthesis of C _{3v} symmetry molecules via cyclotrimerisation reaction". Supervisors: Prof. O. De Lucchi, Dr. S. Cossu.

RESEARCH ACTIVITY

In 1999 as an undergraduate student in the research group of Prof. Ottorino De Lucchi (Venice) he developed the basic insights in the field of organic synthesis. This gave him the opportunity to study new fields of research mainly concerning palladium chemistry and the synthesis of new molecular architectures.

The interest in supramolecular chemistry led him to start a PhD in the United Kingdom (1999-2002) at the University of Sheffield under the supervision of Prof. Christopher A. Hunter. His supervision and the stimulating environment gave him the possibility to acquire a deep knowledge of the physical organic chemistry rules governing non-covalent interactions. The theoretical and experimental studies towards the comprehension of non-covalent interactions allowed him to expand a field of research directed towards the study of the aromatic interaction

in catalysis. In 2003 he came back to the University of Venice under the supervision of Prof. Ottorino De Lucchi. This gave him the opportunity to start new lines of research based on his know-how in supramolecular chemistry using C₃ symmetric architectures. In 2006 he had the opportunity to move to the University of Padova working in the group of Prof. Giulia Licini in the field of stereoselective catalysis. From 2007 is Ricercatore (Assistant Professor) and from 2015 is Professore Associato (Associate Professor) in the same department.

He is working in the field of physical organic chemistry of intermolecular interactions. In last few years, the expertise gained was used to develop a novel research line based on the combination of molecular recognition, coordination chemistry and chirality. In particular, he is developing novel supramolecular cages based on the combination of coordination chemistry and imine condensation chemistry. The overall research activity led him to the production of 67 with an H-factor of 25.

INVITED CONFERENCES

2020 44th International Conference on Coordination Chemistry Rimini Italy 5-10 July 2020

2019 4th China-Italy Bilateral Symposium on Organic Chemistry Bologna Italy 16-17 April 2019

2019 14th Italian Conference on Supramolecular Chemistry Lecce Italy 6-8 June 2019

2018 11th International Vanadium Symposium Montevideo Uruguay 5-8 November 2018

2012 1st School for Young Researchers, Supramolecular Chemistry in Water, Riccione, Italy.

2008 Giornate di Chimica Fisica e Meccanicistica Sestri Levante Italy 24-26 Settembre 2008

2002 Roche Symposium for Leading Chemist of the next Decade. Basel, Switzerland.

AWARDS

2003 Turner Prize – University of Sheffield

2013 Premio Mion – University of Padova

SOCIETY

Associate member of the Royal Society of Chemistry (**2000-2004**)

Italian Chemical Society SCI (**2005-present**).

President of the regional section (Veneto) of the Italian Chemical Society (**2017-19**).

TEACHING

Since **2007** is teaching Organic Chemistry courses in the Department of Chemical Science at the University of Padova. In particular now is teaching, “Laboratory of Organic Chemistry II and Exercises”, “Reaction Mechanism in Organic Chemistry”, “Advanced Organic Chemistry”. He has been supervisor or more than 10 Master Degree Students and 4 PhD students.

RECENT PUBLICATIONS

- “A Diastereodynamic Probe Transducing Molecular Length into Chiroptical Readout” C. Bravin, G. Mason, G. Licini, C. Zonta *J. Am. Chem. Soc.* **2019**, *141*, 11963-11969.

- “Concentration-Independent Stereodynamic g-Probe for Chiroptical Enantiomeric Excess Determination” P. Zardi, K. Wurst, G. Licini, C. Zonta *J. Am. Chem. Soc.* **2017**, *139*, 15616-15619.

- “Triggering Assembly and Disassembly of a Supramolecular Cage” C. Bravin, E. Badetti, F. A. Scaramuzzo, G. Licini, C. Zonta *J. Am. Chem. Soc.* **2017**, *139*, 6456-6460.

- “Supramolecular cages as differential sensors for dicarboxylate anions: guest length sensing using principal component analysis of ESI-MS and ¹H-NMR raw data” C. Bravin, A. Guidetti, G. Licini, C. Zonta *Chem. Sci.* **2019**, *10*, 3523-3528.

- “Supramolecular cage encapsulation as a versatile tool for the experimental quantification of aromatic stacking interactions” C. Bravin, G. Licini, C. A. Hunter, C. Zonta *Chem. Sci.* **2019**, *10*, 1466-1471.