

Prof. Angelo Taglietti

Curriculum Vitae

Place and date of birth: Brescia, 17/04/1966

Nationality: Italian

Marital Status: Married

Foreign Languages: English, French (basic)

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AT is co-author of about 90 articles and book chapters, with an h-index of 37 (with more of 4000 citations) according to Web of Science, and of 39 according to Scopus (with more of 5000 citations). He has been tutor of 29 thesis degree and of two PhD students. He is a referee for several international journals. In December 2013 he obtained the scientific abilitation as "Professore Ordinario" for sector 03/B1.

Since October 2014 AT is Associate Professor in the Chemistry Department of University of Pavia, sector CHIM/03.

Here are briefly listed some of his research interests.

- (i) design, synthesis and characterization of systems able to work as fluorescent sensors for analytes of biological interest;
- (ii) kinetic characterization of demetallation or translocation processes involving polyamminic complexes of transition metal ions;
- (iii) design, synthesis and characterization of systems able to perform controlled translocation of transition metal cations inside poli-aza ligands;
- (iv) design, synthesis and characterization of devices containing transition metal ions able to perform supramolecular functions;
- (v) functionalization of surfaces with noble metal (Au, Ag) nano-objects and/or transition metal complexes with microbicidal action, in order to build antibacterial materials;
- (vi) synthesis of noble metal (Ag, Au) nano-objects, their surface functionalization for sensing and theranostic applications, study of their SERS (Surface Enhanced Raman Spectroscopy) activity;
- (vii) green synthesis of noble metal nanoparticles exploiting agricultural waste materials.

Career

2014 – 2018

Associate Professor at Università di Pavia, scientific sector CHIM/03.

Since academic year 2014-15, in this University, AT is the appointed teacher of the following courses: General and Inorganic Chemistry (degree in Pharmacy), Inorganic Chemistry III e Laboratory of Inorganic Chemistry III (magistral degree in Chemistry).

1999 – 2014

Researcher in Chemistry at Pavia University.

In 2007 he organized, in collaboration with Professors Luigi Fabbrizzi and Antonio Poggi, the international meeting "2nd International Symposium on Macrocyclic and Supramolecular Chemistry", held in Salice Terme (PV) from 24 to 28 of June 2007, with more than 250 attending scientists.

In University of Pavia, during academic years 2001-2002 and 2002-2003, dr. Taglietti has been teaching the course "Laboratorio di Chimica Generale ed Inorganica" for the degree in "Tecnologie Chimiche" and the course "Laboratorio di Chimica Inorganica (secondo corso)" in the "Chemistry" degree. In the academic year 2000/2001 he has been teaching "Laboratorio di Chimica Generale ed Inorganica" for the "Diploma Universitario in Chimica".

Since 2003-2004 he's teaching "Laboratorio di Chimica Inorganica III" in the "Laurea Specialistica/Magistrale in Scienze Chimiche". From 2003 to 2009 he has been teaching "Metodologie e tecniche speciali inorganiche" for the "Laurea Specialistica in Chimica". From 2005-2006 to 2007-2008 he has been teaching "Chimica Generale e Laboratorio –Corso A- Modulo di Laboratorio di Chimica Generale ed Inorganica" for the Laurea degree in "Biotecnologie". Since 2009-2010 he is teaching the module "Elementi di Chimica" in the course of "Bioingegneria e Fisiologia" for the Laurea degree in "Bioingegneria".

Since academic year 2001-2002 to 2015-16 he's been contract professor for "Chimica Generale ed Inorganica" in the Laurea degree in "Biotecnologie Mediche e Farmaceutiche" at the Università Vita – Salute San Raffaele, Milan.

1997-1999

Postdoc grant for research on supramolecular sensors and switches

1996

Research activities with a grant for the Foundation "Lombardia per l'Ambiente", program title: "Liquid membranes and specific ligands for the removal of metal ions from waste water"

1992 - 1995

PhD courses in Chemical Sciences, from November 1992 to November 1995. Title of PhD thesis: "Electron transfer processes in Supramolecular Systems." Supervisor: Prof. Luigi Fabbrizzi (Pavia University). Title earned on 01/10/1996.

1992

Study Grant from "Agip Raffinazione" for research on "pollutants elements".

1992

Chemistry degree (Laurea) at Pavia University on 5/02/1992 with a vote of 110/110 and honors. Thesis title: "Azacyclam: un macrociclo penta-azotato che forma complessi tetraordinati". Supervisor: Prof. Luigi Fabbrizzi (Pavia University).

Relevant and recent Invited Conferences and Communications to meetings

Inorganic nanochemistry for antibacterial applications: the heat is on for silver and gold (Oral Communication) 9th International Symposium on Nano & Supramolecular Chemistry, 4-7 September 2017, Naples, Italy

Inorganic nanochemistry for biomedical applications: going for silver and gold (Plenary Lecture) XXVI International Conference on Coordination and Bioinorganic Chemistry, 4-9 June 2017 Smolenice, Slovakia

Layer by layer assembling of different nano-objects on bulk surfaces: towards supra-nanomaterials for

antibacterial purposes (Invited Speaker) 1st International symposium on Nanoparticles/Nanomaterial and Applications, 20th-22nd January 2014 Caparica – Portugal

Functionalization of glass surfaces for antibacterial purposes (Keynote lecture) XXXVIII Congresso Nazionale di Chimica Inorganica, Trieste, 13-16 September 2010

Transition metal ions in supramolecular chemistry: sensing and moving (Invited Lecture) 8th FIGIPAS Meeting in Inorganic Chemistry, Athens, Greece, 6-9 July 2005

Fluorescent detection of biologically relevant substrates: transition metal ions do it better (Invited Conference) Universidade de Santiago de Compostela, Spain, 10 June 2005

Metal-Ligand interactions: one powerful tool and two different strategies for fluorescent sensing of anions (Plenary Lecture) 6° Congresso Nazionale di Chimica Supramolecolare, Urbino, 7-10 September 2003

Transition Metal Based Fluorescent Sensors and Devices (Keynote Lecture) 3rd Half-Day Symposium on Supramolecular Chemistry in Ireland, Dublin (Ireland), 22 March 2002

Energy Transfer Based Supramolecular Devices Containing Transition Metal Ions (Short Lecture) 5° Congresso Nazionale di Chimica Supramolecolare, Frascati, 30 September - 3 October 2001