

Date and place of birth: July 22nd, 1957-Udine (Italy)

Nationality: Italian

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<http://thermodynamics.uniud.it/>

- Education

-1981 Degree in Chemistry *cum laude*, University of Padova-State exam

-1982 Scholarship at University of Padua-Coordinator of the chemical sector at the Research Dept. of Electrolux Industry (Pordenone, Italy)

-1983 University Researcher at the Fac. of Eng. of the Univ. of Udine (UniuD),

-1998 Associate professor at the Polytechnic of Turin; since 2000 at UniuD

-2007 Full professor of Foundations of Chemical Technology at UniuD

- Teaching at UniuD and Polytechnic of Turin (1998/1999)

Chemistry (1st level)

General and organic Chemistry (1st level)

Environmental Physical Chemistry (2nd level)

Chemical foundations for environment (2nd level)

- Research

Structure and thermodynamic properties of metal ion complexes (Lanthanides and transition metals) in solution, relevant for environmental, industrial and medical applications

Adsorption of cations and anions on nanomaterials

- Collaborations:

Lawrence Berkeley National Laboratory (Dr. Linfeng Rao)

University of Verona (Prof. M. Bettinelli, Prof. F. Piccinelli);

Universitat Autònoma de Barcelona, (Prof. M. Valiente)

University of Salerno & KAUST (Saudi Arabia) (Prof. L. Cavallo)

University of Cagliari (Prof. V. Nurchi, G. Crisponi)

University of Padua (Prof. P. Di Bernardo, Prof. P. L. Zanonato);

Polytechnic of Bari (Prof. P. Mastroianni)

Karlsruhe Institute of Technology (Dr. F. Endrizzi)

University of Lisbon (Prof. M. A. Santos);

University of Naples (Prof. V. Busico)

- Responsible or member in projects funded by competitive calls:

-PRIN2011 Molecular nanotechnologies for controlled drug release, MIUR PRIN, 2010-2011, 2010FPTBSH. Responsible (PI) of UniuD, National Coordinator Prof. G. Vasapollo

-FVG Region, 147 / FESR, Study and application of nanotechnologies for the creation of photocatalytic furnishings for the abatement of indoor pollutants (PI for UniuD, 2012)

-ECOMETA, Extraction of environmentally important metals: property structure correlation for an efficient process (FVG Region/FESR, 2010, PI for UniuD)

-Direct Insight into the Elusive Active Ti Species of High-Yield Ziegler-Natta Catalysts, Dutch Polymer Institute (NL), project # 754, (2012, 48 months, financial PI for UniuD).

- MAZA, New Methods for azamacrocycli" (FVG Region/FESR, 2018, Member; PI: Bracco Imaging)

-RECOPHARMA, Removal and Recovery of Pharmaceutical Persistent Pollutants from Wastewater by Selective Reagentless Process, H2020-MSCA-RISE-2017, European Commission (2018, duration 48 months). Member; PI: Prof. M. Valiente (Barcelona)

-PRIN Towards a Cheap and portable Instrument for bioAnalysis based on enAntiospecific luminescence and aB sorption essays, 2017, 20172M3K5N, Member, PI: Prof. M. Bettinelli

-FIRB, "Design of new contrast agents for image NMR. Engineering and thermodynamic, kinetic and spectroscopic evaluation of new Gd (III) complexes hepato-specific. ", 2001, RBAU01M7B5, (Member; PI: Prof. R. Portanova)

-PRIN, "Investigations on Co (II), Mn (II), Cu (I) and Ln (III) complexes for transport and activation of oxygen and nitrogen monoxide in an aqueous and non-aqueous environment. " 2002, 2002038825_003, (Member; PI: Prof. A. Bianchi)

- Other projects:

- contract with Basell Poliolefine (Ferrara) for "Study of the interaction between $TiCl_4$ and internal donors" (2005-2007). PI

- contracts with CATAS (UD), the Italian institute for certification, research and testing in the wood-furniture sector, a center of excellence for research and analysis also in the agro-food, industrial and environmental sectors for " Analysis of the factors responsible for the detachment of PVC sheets from MDF panels "(2008-2009). PI

- Funding from the CIPE 2007 (Interministerial Committee for Economic Planning) as part of the "Characterization and abatement of pollutants and risk analysis in woodworking processes" project PI of LINE 4 "Chemical-physical characterization of wood coatings and correlation with VOC emissions and product quality performance"

- contracts with STAR Pennsylvania and OAK Europe companies (2011,2012);PI.

- Publications:

- 110 international articles, about 115 communications in national and international meetings, 2 teaching books.

- Congress organization (at Uniud):

- XLII National Conference on Calorimetry, Thermal Analysis and Applied Thermodynamics, January, 2021

- X National AICIng congress (2016)

- 8th International Conference on f-Elements (2012)

- XVI Italian-Spanish Congress on Thermodynamics of Metal Complexes (2005)

- Congress of Gruppo Italiano di Termodinamica dei Complessi (1985)

- Other activities

- Member of directory board of the Italian Chemical Association for Engineering (AICIng) from 2012 to date. President of AICIng 2018-2021.

- Member of directory board of the Italian Association of Calorimetry and Thermal Analysis from 2004 to 2010

- Member of COST ACTION "Network for Equilibria and Chemical Thermodynamics Advanced Research ",CA18202, starting: 2019

- Miur/VQR assessment activities

- Referee:RSC Advances,Inorg. Chem.,Eur.J.Inorg. Chem,Dalton Trans,Inorg. Chim. Acta,Polyhedron, Ann. di Chimica,Marine Chem.,New J.Inorg. Chem., Termochimica Acta, J. Sol. Chem, Processes.