

Gianguido Ramis

Full Professor of Chemical Fundamentals of Technologies

EDUCATION AND TRAINING

1992

PhD in Industrial Chemistry

Catalysts characterization of catalysts for the selective catalytic reduction of nitrogen oxides with ammonia and their reaction mechanism

Polytechnic of Milan, Dept. of Industrial Chemistry (Italy), Tutor Prof. P. Forzatti.

1986-1988

French Government Research Grant

Design and implementation of an innovative infrared characterization technique for pure ceramic powders

University of Limoges (France), U.E.R. of Science, tutor Prof. P. Quintard.

1985

MoS in Industrial Chemistry (110/110 *cum laude*)

Study of ternary systems based on two polymers (with at least one capable of give an anisotropic phases) and common solvents

University of Genoa, (Italy), Tutor Prof.ssa E. Bianchi.

1978

High School diploma of Chemistry Expert (56/60)

ITIS A. Gastaldi, Genoa (Italy)

PROFESSIONAL HISTORY

2001-2023

Associate Professor of Chemical Fundamentals of Technologies

University of Genoa (Italy).

1995-2001

Senior researcher

University of Genoa (Italy).

1993

Postdoctoral fellow

Characterization of catalysts active in the selective catalytic reduction of nitrogen oxides

University of Genoa (Italy), Tutor Prof. V. Lorenzelli.

1992

Postdoctoral fellow

Study of catalysts for the selective hydrogenation of carbon monoxide to higher alcohols

Polytechnic of Milan, Dept. of Industrial Chemistry (Italy), Tutor Prof. I. Pasquon

ACADEMIC APPOINTMENTS

2004-oggi

Member of Ph.D. Academic Board

Previously “Science and Technology of Materials”, currently “Science and Technology of Chemistry and Materials”
University of Genoa (Italy)

2005-2011

President of the Course of Study

Courses of Study in Chemical Engineering at the Faculty of Engineering
University of Genoa (Italy)

EXPERIENCE

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

2025-2026 Hydrogen storage and distribution through a “power-to-gas/gas-to-power strategy” with full carbon capture and utilization

Principal Investigator. Euro 3.500.000

MITE-MASE Research and development projects for hydrogen in the context of PNRR – M2C2 Investment line 3.5

2022-2025 SCORE - Solar energy for circular CO₂ photoconversion and chemicals regeneration

Scientific Director of the INSTM Research Unit at the University of Genoa. Principal Investigator I. Rossetti (UniMI). Euro 300.000.

CARIPO Circular Economy call – 2021.

2017-2020 HETerogeneous Robust Catalysts to Upgrade Low valuE biomass Streams (HERCULES)

Scientific Director of the Research Unit at the University of Genoa. Principal Investigator A. Vaccari (UniBO). Euro 51.000.

MIUR PRIN 2015

2015-2018 DeN – Innovative technologies for the abatement of N-containing pollutants in water

Scientific Director of the INSTM Research Unit at the University of Genoa. Principal Investigator I. Rossetti (UniMI). Euro 35.000.

CARIPO

2010-2011 Innovative Materials for the Production of H₂ from Renewable Sources

Scientific Director of the INSTM Research Unit at the University of Genoa. Principal Investigator I. Rossetti (UniMI). Euro 13.440.

Lombardy Region-INSTM

2007-2010 Use of ionizing radiation and photochemical and nanochemical techniques for the modification of materials in the tire industry

Scientific Director of the Research Unit at the University of Genoa. Principal Investigator A. Turturro (UniGE). Euro 60.000.

MIUR PNR-FIRB

2007-2009 Surface characterization and catalytic activity studies of catalysts for ethanol steam reforming

Scientific Director of the Research Unit at the University of Genoa. Principal Investigator U. Costantino (UniPG). Euro 47.875.

MIUR PRIN 2006

2006-2006 Characterization of surface active centers in synthetic hydrotalcite based materials, phosphated and porous oxides active in methanol conversion to hydrogen rich and low amount of CO mixture

Scientific Director of the Research Unit at the University of Genoa. Principal Investigator U. Costantino (UniPG). Euro 50.000.

MIUR PRIN 2004

2002-2004 Innovative catalysts for methanol reforming particularly suitable for PEMFCs feed

Scientific Director of the Research Unit at the University of Genoa. Principal Investigator U. Costantino (UniPG). Euro 53.800.

MIUR PRIN 2002

TEACHING OR RESEARCH POSITIONS (FELLOWSHIPS) AT FOREIGN UNIVERSITIES AND RESEARCH INSTITUTES

2000 Visiting Professor

Espectroscopia Vibrational en Catálisis Heterogénea
Facultad de Química, UNAM, Città del Messico (Messico)

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

2018 Guest Editor

Process Design Issues for Hydrogen Production: From Catalyst Design to Reactor Modelling and Process Simulation

ChemEngineering, MDPI, Basel, Switzerland (ISSN 2305-7084)

2018 Guest Editor

Catalytic, Photocatalytic and Electrocatalytic Processes for the Valorisation of CO₂
Catalysts, MDPI, Basel, Switzerland (ISSN 2073-4344)

2019 Guest Editor

Photocatalysis in Circular Economy
Chemistry, MDPI, Basel, Switzerland (ISSN 2624-8549)

2020 Guest Editor

New insights in heterogeneous catalytic processes
Catalysts, MDPI, Basel, Switzerland (ISSN 2073-4344)

2021 Guest Editor

Efficient Photocatalytic Processes for Hydrogen Production
Energies, MDPI, Basel, Switzerland (ISSN 1996-1073)

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

Date Title

Short description, if any

Organization

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS

[2005-oggi](#) Member of the National Interuniversity Consortium for Materials Science and Technology

Promotes research activity in Materials Science and Technology in the associated Universities

INSTM Consortium

OTHER EXPERIENCES

[2025](#) Bibliometric Parameters

Author of 181 papers, with 12890 total citations, Hirsch-Index = 57

SCOPUS database, updated July 25th, 2025