

## **CV Prof. Bartolo Gabriele – Updated July 7, 2023**

Prof. Bartolo Gabriele graduated in Chemistry (with honors) at the University of Calabria (UNICAL, Italy) in 1990.

From March to September 1991 he carried out a research stage at the Department of Industrial and Organic Chemistry of the University of Parma (Italy) with Professors Gian Paolo Chiusoli and Mirco Costa, working on the development of novel Pd-catalyzed reactions.

He completed his PhD in “Chemical Sciences” in 1994 at UNICAL with Prof. Giuseppe Salerno working in the development of novel Pd-catalyzed carbonylation reactions.

In 1997, he joined Professor Ronald Breslow’s group at Columbia University (New York, USA) for 1 year as a NATO-CNR fellow, working in the field of artificial enzymes for selective oxidation reactions.

In 1998, he returned to UNICAL, where he was promoted to Associate Professor of Organic Chemistry in 2002 and to Full Professor of Organic Chemistry in 2006.

His current research interests include the synthesis of high value added molecules by catalytic techniques, the use of carbon oxides (carbon monoxide and carbon dioxide) as building blocks in organic synthesis, and the development of new materials for applications, in particular, in membrane technology.

His current scientific production includes 240 articles in international peer-reviewed journals, 2 edited international books, 16 chapters in international books, 20 patents (12 national, 8 international), more than 280 communications in national or international conferences, and more than 10 invited talks. H-index: 52; total citations: 8600 (Scopus; July 7, 2023).

Prof. Gabriele received the “Research Award” in 2013 from the Italian Chemical Society, in the field “Synthetic Organic Chemistry”, and in 2020 he was included in the list of 100,000 world top scientists “Updated science-wide author databases of standardized citation indicators” published on 08-10-2020 (DOI: 10.17632/btchxktyw.2).

He has been involved, as a coordinator or participant, in many national and international projects, and was, in particular, scientific responsible for UNICAL for the EU RIA H2020 project “VicInAqua” (Integrated aquaculture based on sustainable water recirculating system for the Victoria Lake Basin).

### Curriculum Studiorum

- 06.03.1990 - Degree in Chemistry with honors (UNICAL, Italy)
- 06.03.1991 - 30.09.1991: Research stage at the Department of Organic and Industrial Chemistry - University of Parma (Italy) (with Profs. Gian Paolo Chiusoli and Mirco Costa)
- 01.11.1991-31.10.1994: PhD in “Chemical Sciences” (UNICAL, Italy) (with Prof. Giuseppe Salerno)
- 04.08.1997 - 03.07.1998: NATO-CNR Fellowship - Department of Chemistry - Columbia University - New York – NY 10027 (USA) (with Prof. Ronald Breslow).

### Academic Career

- 27.12.1995 - 30.09.2002: Researcher of Organic Chemistry, UNICAL
- 01.10.2002 - 31.03-2006: Associate Professor of Organic Chemistry, UNICAL
- 01.04.2006 - to date: Full Professor of Organic Chemistry, UNICAL

### Current Research Activity

- New syntheses of high value added molecules through catalytic assembly of simple units
- Utilization of carbon oxides (carbon monoxide and carbon dioxide) as building blocks in organic synthesis
- Syntheses of heterocyclic molecules of pharmaceutical, industrial, or applicative interest
- Use of nonconventional solvents in organic synthesis
- Development on new materials for applications, in particular, in membrane technology

### Scientific articles and bibliometric data (updated June 28, 2023)

- Total number of publications in international peer-reviewed journals: 239
- Total Impact Factor (IF) > 1100
- Total number of citations: 8600 (Scopus)
- *h*-index: 52 (Scopus)
- Scopus ID: 7003277013; Scopus profile: [Scopus preview - Gabriele, Bartolo - Author details - Scopus](#)

### Awards

- NATO-CNR Fellowship - Columbia University (New York, USA) - Department of Chemistry (1997-1998)
- JSP Fellowship at the "37th EUCHEM Conference of Stereochemistry ("Bürgenstock-Conference 2002")
- "Research Award" from the Organic Chemistry Division of the Italian Chemical Society, in the field "Synthetic Organic Chemistry (Methodologies and Products)" (2013)
- World's Top 2% Scientist ("Updated science-wide author databases of standardized citation indicators", by Stanford University; latest version published on 3 November 2022, <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/5>)

### Academic activities

- Member of the Scientific Board of the Linguistic Center of UNICAL (1999-2009)
- Member of the Scientific Board for the Technological Transfer of UNICAL (October 2003 - December 2013)
- Chairman of the Committee responsible for the course "Nutritional Science" - Faculty of Pharmacy - UNICAL (2004-2009)
- Coordinator of the Scientific Committee of the PhD course "Methodologies for the Development of Molecules of Pharmacological Interest" (UNICAL) (01.11.2006 - 31.10.2009)
- Member of the Organizing Committee of the 31st National Conference of the Division of Organic Chemistry of the Italian Chemical Society (Rende, Italy, September 10-14, 2007)
- Coordinator of the Scientific Committee of the PhD curriculum "Organic Materials of Pharmaceutical Interest" (UNICAL) (01.11.2009 - 31.10.2013)
- Member of the Scientific Committee of the PhD course "Scienze e Tecnologie Fisiche Chimiche e dei Materiali" (UNICAL) (01.11.2013 - 31.10.2015)
- Member of the Scientific Committee of the PhD course "Scienze ed Ingegneria dell'Ambiente, delle Costruzioni e dell'Energia" (UNICAL) from 01.11.2015 to date
- Member of the Research Committee of the Department of Chemistry and Chemical Technologies (2014-2017) (UNICAL)
- Member of the Scientific Board of the Technical-Scientific Library of UNICAL since 2015 to date
- Member of the National Commission for the National Scientific Habilitation in Industrial Chemistry (2016-2018)

### Activity as international reviewer

- Referee for many international scientific journals, including: Science; Nature Chemistry; Nature Catalysis; Nature Communications; Chemical Reviews; Journal of the American Chemical Society; ACS Catalysis; Chem; Chem Catalysis; Angewandte Chemie – International Edition; Green Chemistry; Journal of Catalysis; ChemSusChem; Journal of Membrane Science; Desalination; Organic Letters; Chemical Communications; Chemistry–A European Journal; Organic Chemistry Frontiers; Advanced Synthesis & Catalysis; Catalysis Science & Technology; *iScience*; ChemCatChem; Molecular Catalysis; The Journal of Organic Chemistry; Organic & Biomolecular Chemistry; European Journal of Organic Chemistry; Asian Journal of Organic Chemistry.
- International Referee for the National Science Foundation (USA), Royal Society (UK), Austrian Science Fund (Austria)
- National Referee for MIUR, ANVUR

### Editorial activity

- Member of the Editorial Board of “Letters in Organic Chemistry” (Bentham) since 2007 to date
- Academic Editor of “Journal of Chemistry” (Hindawi) since 2012 to date
- Member of the Editorial Board of “Molbank” (MDPI) since 2016 to date
- Associate Editor of “Heteroatom Chemistry” (Wiley-Hindawi) since 2018 to date
- Member of the Editorial Board of “Molecules” (MDPI) since 2019 to date
- Associate Editor of Frontiers in Sustainability (Frontiers Media) since 2021 to date
- Guest Editor for several Special Issues of “Current Organic Chemistry” (Bentham), “Molecules” (MDPI), “Molbank” (MDPI), “Chemistry” (MDPI), “Topics” (MDPI), Frontiers in Sustainability (Frontiers)
- Co-editor of “Targets in Heterocyclic Systems” (Italian Chemical Society) since 2019 to date
- Editor of the book: “Carbon Monoxide in Organic Synthesis – Carbonylation Chemistry” (Wiley-VCH, 2021), ISBN 9783527347957
- Editor-in-Chief of the “Molecular Organics” section of the journal “Chemistry” (MDPI) since September 2022 to date
- Co-Editor of a Special Issue of the journal “Environmental Pollution” (Elsevier) devoted to “Interactions of micro and nano plastics with emerging pollutants” (2022)
- Editor of a Special Collection for Wiley-VCH (journals involved: ChemSusChem, ChemCatChem, Eur. J. Org. Chem.) entitled “New Trends in Catalytic Fixation of Carbon Dioxide and Carbon Monoxide” (2023)

### Grants (last 5 years)

- PRIN National Project “Valorization of carbon oxides by sequential catalysis: Combining the reverse water gas shift reaction with catalytic carbonylation for the synthesis of high value added compounds (COXSECAT),” (Principal Investigator). Grant awarded: 203445 €
- PRIN National Project “Mussel-inspired functional biopolymers for underwater adhesion, surface/interface derivatization and nanostructure/composite self-assembly (MUSSEL)” Duration: 36 months starting October 2019 (Scientific Responsible for the University of Calabria). Grant awarded to the research unit coordinated by Prof. Gabriele: 73000 €
- European Project “Integrated aquaculture based on sustainable water recirculating system for the Victoria Lake Basin”, (VicInAqua) Grant agreement no.: 689427, Topic: WATER-5c-2015, Type of action: RIA – (HORIZON 2020) Duration: 36 months from: 01/06/2016 (Scientific Responsible for the university of Calabria). Grant awarded to the research unit coordinated by Prof. Gabriele: 253292 €

- POR Calabrian Regional Project AsSE (CUP J28I17000030006 – Arsenic separation from waters by membrane processes) (AsSE) (Scientific Responsible for the Dept. of Chemistry and Chemical Technologies of the University of Calabria). Duration: 24 month starting from January, 2018. Grant awarded to the research unit coordinated by Prof. Gabriele: 61914 €

Arcavacata di Rende (CS), 07.07.2023