

Personal Data

Surname	Name	Organization and Position	Date of birth
Profumo	Antonella	UNIPV- Dep of Chemistry – Full Professor	06/12/1957

Education and training

- 2006 - today** Full Professor of Analytical Chemistry CHIM/01, University of Pavia, Pavia (Italy)
1998 - 2006 Associate Professor of Analytical Chemistry CHIM/01, University of Pavia, Pavia (Italy)
1983 – 1998 Researcher Analytical Chemistry CHIM/01, University of Pavia, Pavia, Italy
1981 Master's degree in chemistry with full mark, University of Pavia, Pavia, Italy.

Professional experience

- 2002 – 2005 - Vice-Director of the Department of General Chemistry of the University of Pavia
2005 – 2009 - Head of the Department of General Chemistry of the University of Pavia
Since 2016 – Member of the Board of PhD School in Chemistry of University of Pavia (Italy)
Since 2018 - Member of the Academic Senate of the University of Pavia (Italy)
Since 2018 – Head of the Department of Chemistry of the University of Pavia (Italy)
Since 2018 – Member of the Council of Department Directors of the University of Pavia
Since 2021 – Rector's Delegate in the Board of *Almo Collegio Borromeo* the oldest meritocratic *University residence* in Italy

Research interests. A) Preparation and application of new Carbon-based materials attractive in the field of green chemistry (from, the newest Graphene and carbon nitrides, to carbon materials prepared from pyrolysis of waste materials) as solid-phase extraction (SPE, dSPE) sorbents for concentration and cleanup of environmental, food and biological matrices. B) Development and application of selected analytical procedures for determination of emerging and persistent pollutants in environmental complex matrices, and in biological samples and food. Preparation and application of polymeric membranes for microextraction of organic pollutants (pesticides, pharmaceutical and personal care products); Many efforts are being made in the field of green sample preparation to minimise the environmental impact of sample handling through miniaturisation, low waste generation, use of recycled, reusable, renewable materials, and low energy consumption. Collaboration in this field is ongoing with the research group of Enriqueta Anticò at the University of Girona (Spain), using polymer inclusion membranes as sorbent phases for the extraction of emerging organic pollutants from environmental waters. Other research activities deal with the application of analytical procedures for forensic applications, in collaboration with colleagues of the Department. C) photocatalytic production of hydrogen gas by sacrificial water splitting in the presence of renewable biomasses using novel catalysts (novel layered lead-free metal halide perovskite and perovskites derivative based on Bi, Ge and Sn as metal cation) synthesized by state-of-the-art techniques, and investigation of photocatalytic materials (based on graphitic carbon nitride) for photocatalytic ammonia production, in collaboration with colleagues of the Department (P.I. of the PRIN Project CUP: F53D23005160006, Towards efficient and cost-effective nitrogen fixation via photocatalysis: insights from experiment and theory (PHOTOFIX)).

Antonella Profumo is author of 227 publications on international journals, h-index 46 (Google Scholar Source) and 203, h-Index 41 (Scopus Source: updated Jan 2024) and her publications have been cited more than 5514 times (Scopus, jan 2024), and of many communications at national and international conferences.

She runs scientific collaborations with public and private foundations that refer to the department for analytical guidance, in the sector of natural spring and drinking water, and in the environmental field as far as concerns emissions of inorganic and organic pollutants from industrial plants, recovery of material from waste in a circular economy perspective.

In 2020 – she has been Guest Editor for Catalysts, Special issue: “Towards Green, Enhanced Photocatalysts for Hydrogen Evolution.

She has experience as a referee for several leading journals for several publishers in Chemistry, Analytical Chemistry, and Multidisciplinary Sciences.