

Personal Data

<i>Surname</i>	<i>Name</i>	<i>Organization and Position</i>	<i>Date of birth</i>
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 italian meritocratic *University residence*

Teaching and Tutoring Experience

Teaching and Tutoring Experience. Teacher in several Bachelor and Master Degree courses in analytical chemistry and analytical chemistry laboratories.
Supervisor of Bachelor, Master, and Doctoral theses

Research lines

Preparation and application of new carbon-based materials attractive in the field of green chemistry (from the latest graphene and carbon nitrides to carbon materials prepared by pyrolysis of waste materials) as solid phase extraction (SPE, dSPE) sorbents for concentration and purification of environmental, food and biological matrices.

Development and application of selected analytical techniques for the determination of emerging and persistent pollutants in complex environmental matrices, biological samples, and food.
Preparation and application of polymeric membranes for microextraction of organic contaminants (pesticides, pharmaceuticals, and personal care products).

In the field of Green Sample Preparation, research is dedicated to minimizing the environmental impact of sample handling through miniaturization, low waste generation, use of recycled, reusable and renewable materials and low energy consumption. Collaboration in this area 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.

Development of analytical methods for forensic applications in collaboration with colleagues in the Department. Participant in the project PRIN2022_PNRR_MERLI – CUP: F53D23011910001, "NOrCa - Not Ordinary Cannabis - Exploring the chemical space around hemp (*Cannabis sativa* L.) waste and by-products from a circular economy perspective".

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 perovskite derivative based on Bi, Ge and Sn as metal cations) synthesized by state-of-the-art techniques.

Investigation of photocatalytic materials (based on graphitic carbon nitride) for photocatalytic ammonia production, in collaboration with colleagues in the Department (P.I. of the PRIN2022 project CUP: F53D23005160006, "Towards efficient and cost-effective nitrogen fixation via photocatalysis: insights from experiment and theory (PHOTOFIX)").

Author of 209 publications on international journals, h-Index 42 (Scopus Source: updated May 2024) and her publications have been cited more than 5708 times (Scopus, May 2024), and of many communications at national and international conferences.

She leads scientific collaborations with public foundations and private industries, which consult the Department for analytical advice in the field of natural spring and drinking water; in the environmental field, as far as emissions of inorganic and organic pollutants from industrial plants are concerned; recovery of materials from waste in a circular economy perspective; control of raw materials and finished products.

Reviewer Duties for Scientific Journals in the fields of chemistry, analytical chemistry, and multidisciplinary sciences; Guest editor (2020) for Catalysts, special issue: "Towards Green, Enhanced Photocatalysts for Hydrogen Evolution".