

Prof. Claudia L. BIANCHI

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Education

1992-1996	Ph.D. in Material Science <i>University of Milano - Chair, Prof. S. Pizzini</i>
1986-1991	M.D. in Industrial Chemistry <i>University of Milano - Chair, Prof. V. Ragaini</i>

Professional Experience

October 2017	Permanent position as Full Professor of Industrial Chemistry <i>University of Milano</i>
Since 2006	Permanent position as Associate Professor of Industrial Chemistry <i>University of Milano</i>
1995-2006	Permanent position as Assistant Professor of Industrial Chemistry <i>University of Milano</i>

Coordination Experience

2015	Coordinator of the Master's degree in Industrial Chemistry, <i>University of Milan</i>
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Teaching Experience

Since 2015	<i>Professor of Recycle and life cycle assessment (LCA) of processes and materials</i>
Since 2009	<i>Professor of Industrial Chemistry Processes and Plants: advanced course for the Master in Industrial Chemistry</i>
Since 2002	<i>Professor of Industrial Chemistry for the Degree in Industrial Chemistry</i>
2010-2015	<i>Professor of Industrial Plants and Laboratory for the Degree in Industrial Chemistry</i>

Association Memberships

2013-2016	<i>Member of the Board of Directors of the European Federation of Photocatalysis</i>
Since 2002	<i>Member of the Board of Directors of the European Society of Sonochemistry with the function of Secretary</i>

Participation in Editorial board

Since 2017	<i>Member of the Editorial Board of Ultrasonics-Sonochemistry (Elsevier). IF: 4.6</i>
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Scientific skill

Expertise: material chemistry (preparation, characterization and test of inorganic materials) for environmental application.

Prof. Bianchi is the leader of the Process and Plants Research Group for Industrial Chemistry at the University of Milan. The Group involves people who have interests in different fields, such as inorganic materials, surfaces science, analytical and physical chemistry, industrial chemistry and separation processes. The team also comprises an assistant professor, a graduate technician, three PhD students, two Post-docs, and undergraduates and graduating students who are interested in carrying out their experimental thesis on one of the research subjects the Group is involved in.

Author of more than 200 original research papers on International Journals with IF in the field of applied material science and environmental catalysis (h-index: 38).

Objectives of the research are:

- 1) the preparation of micro- and nanostructured materials active in photodegradation processes substantially for pollution control and environmental compliance in both water and gas phase;
- 2) the modification of the surface properties of solid materials;
- 3) the conversion of waste streams to value-added, saleable products.

Full profile and complete list of publications on Scopus:
<https://www.scopus.com/authid/detail.uri?authorId=7202398527>

Conferences

- Chairman of the next ISO meeting (TC206) on Advanced Ceramics, Milano (Italy) July 2017
- Participation to over 200 Scientific congresses all over the world, often with invited talks.

Tutor of PhD Thesis

XXIII cycle: "Nanotechnologies in cementitious materials and coating for environmental remediation," Dr. Alberto Naldoni (discussion on 15/12/2010).

XXV cycle: "Biodiesel Production from Non-foodstuff: Chemistry, Catalysis and Engineering", Dr. Daria Boffito (discussion on 11/01/2013).

XXVI cycle: "Biomass to Liquid Process: new kind of cobalt and iron based catalysts for the Fischer-Tropsch Synthesis", ing. Antonietta Di Fronzo (discussion on 01/12/2014).

XXVII cycle: "Photocatalytic activity assessment of micro-sized TiO₂ used as powders and as starting material for porcelain stoneware tiles production," Dr. Sara Cat (discussion on 21/12/2014).

XXVIII cycle: "Hydrophobic metal surfaces for the prevention of fouling in industrial heat exchangers", Dr. Valeria Oldani (discussion on 12/2015)

XXIX cycle: "Preparation of micro-TiO₂, pure and doped with metals, for formulation in building materials," Dr. Marta Stucchi (discussion on 16/03/2017)

XXX cycle: "Photocatalysis for the destruction of drugs in water molecules," Mrs. Benedetta Sacchi (foreseen discussion: January 2019)

Activity of assessor

Evaluation of research projects:

- University of Venice
- Ministry of Education: FIRB and PRIN projects
- Dalhousie University (Canada)
- Ministry of Education: VQR evaluator
- Finnish Academia of Sciences

Examiner of PhD Thesis for Foreign Institutions:

2016: International Member of the doctoral examination at the Technical University of Athens (Greece) with the title: dr. Petros Sakkas, September 13, 2016

2015: External Examiner for the evaluation of the doctoral thesis for SRM University, Kattankulathur (India) entitled "investigation of growth and functional properties of TiO₂ nanostructures for dye sensitized solar cell applications" Ms. G. Arthi, August 2015

2015: Opponent of doctoral thesis International University of Oulu (Finland) with the title: "Biomass Gasification and Catalytic Conversion of synthesis Gas", dr. Henrik Romar, March 24, 2015

2015: Member of the commission for the final exam of the PhD in Chemistry) - XXVII cycle at the Cà Foscari University of Venice entitled: "Innovative and versatile heterogeneous catalysts for hydrogen production from renewable sources", Dr. Valentina Nichele, February 11, 2015

2015: Member of the commission for the final exam of the PhD in Industrial Chemistry and Chemical Engineering (CII) - XXVII cycle at the Politecnico di Milano with the title: "Perfluorinated materials and photocatalytic titanium dioxide: synergies and chemical interactions in environmental applications", Dr. Ing. Persian Federico, March 26, 2015

2015: Member of the commission for the final exam of the PhD in Chemistry and Materials - XXVII cycle at the University of Turin titled "nanosstructure engineering of pigments for use as cool materials", dr. Luca Demarchis, January 30, 2015

2013: Examiner of doctoral thesis International University of Oulu (Finland) entitled "Catalytic depolymerization of starch-based industrial waste: use of non-conventional activation methods and novel reaction media," Dr. Audrey Hernoux-Villi re, April 30 2013

2013: Member of the commission for the final exam of the PhD in Industrial Chemistry and Chemical Engineering (CII) - XXV cycle at the Politecnico di Milano with the title: "Perfluoroacylfluorides: versatile intermediates for the preparation of fluorinated functional materials ", Dr. ssa Wu Menghua, March 27, 2013

2012: Member of the International Tribunal for the final exam of the doctoral thesis University of Alicante (Spain): "Degradacion de residuos liquidos derivados the use of percloroetileno: tratamiento y electroquimico sonoelectroquimico", Dr. Maria Deseada Esclapez Vicente, March 2012