



Personal information

Name: Antonella Gervasini
Location: Milano, IT
AICAT member 2018-202



Position: Full Professor of Physical Chemistry (CHIM/02)

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ResearcherID: P-2865-2016 **Scopus** ID: 7006668683

Education and positions: Doctorate in Chemical Science at the Università degli Studi di Milano (1987); Industrial researcher and Coordinator of the "catalysis group" in ENI (1987-1992); then, Assistant Professor (1992-2001); Associate Professor (2001-2017); Full Professor in Physical Chemistry (2017 up to now) at Università degli Studi di Milano.

Main fields of interest: Heterogeneous catalysis and related materials; solid acid catalysts: development and characterization and reactions of biomass valorization; environmental catalysis: de-NO_x, de-VOCs and other catalytic processes; remediation of polluted wasterwaters with the use of sorbent hydroxyapatite materials.

Methods and Equipment: Continuous flow reactors with on-line spectrophotometer; Batch reactors; Termogravimetry; Differential Scanning Calorimeter; Physisorption and Chemisorption systems in gas and liquid phase.

Professional activities: Invited Professor at the Summer School "Calorimetry and Thermal Methods in Catalysis and Material Science" (2007-2019) at CNRS, Lyon, France. Award winning positions (2010 and 2012) as "Invited Professor" at Université de Lille-1 Sciences et Technologies, Lille, France, and at Nanjing University, Jiangsu region, China (1 month). Award winning position (2002-2003 as «Associate Researcher» at Institut de Recherches sur la Catalyse (IRCELYON), CNRS, France. Member of Advisory Boards of National and International Congresses on catalysis, gree chemistry and thermal analysis.

Publication record (By Scopus): 130 peer-reviewed papers; 35 book chapters; 7 patents, citations >4000, *h*-index: 36

5 most important publications:

A. Gervasini, P. Carniti, F. Bossola, C. Imparato, P. Pernice, N.J. Clayden, A. Aronne
New Nb-P-Si ternary oxide materials and their use in heterogeneous acid catalysis
Molecular Catalysis 458 (2018) 280-286.

S. Campisi, S. Bennici, A. Auroux, P. Carniti, **A. Gervasini**
A rational revisiting of niobium oxophosphate catalysts for carbohydrate biomass reactions
Topics in Catalysis, 61 (2018) 1939-1948.

P. Carniti, **A. Gervasini**, M. Marzo, A. Auroux
Modulation of the acidity of niobic acid by ion-doping. Effects of nature and amount of the dopant-ions
Thermochimica Acta, 567 (2013) 51-56. (10.1016/j.tca.2013.01.021)

A. Gervasini, A. Auroux
Combined use of liquid calorimetry and spectrofluorimetry for the screening of the acidity oxide catalysts in different liquids
Thermochimica Acta, 567 (2013) 8-14. (10.1016/j.tca.2013.03.028)

P. Carniti, **A. Gervasini**, S. Biella, A. Auroux
Niobic acid and niobium phosphate as highly acidic viable catalysts in aqueous medium: fructose dehydration reaction
Catalysis Today, 118 (2006) 373-378