

Dr. Emiliano Fonda

Division Expériences
Synchrotron SOLEIL
L'Orme des Merisiers
Saint-Aubin - BP 48
91192 GIF-sur-YVETTE CEDEX
e-mail : fonda@synchrotron-soleil.fr

ORCID: <https://orcid.org/0000-0001-6584-4587>

ResearchGate: <https://www.researchgate.net/profile/Emiliano-Fonda>

Research activity

I apply XAFS to the study of nano objects implied in catalytic phenomena. I collaborated in the construction of the XAFS beamline at Elettra, at the operation of D42 beamline in LURE and at the conception and construction of SAMBA beamline and part of the ROCK project. I am the author and co-author of about 90 papers in peer reviewed journals.

I work in tight collaboration with the group of prof. P. Fornasiero of the Materials, Environment and Energy group at the University of Trieste (Italy) and prof. T. Montini at the study of catalysts and mixed oxides working as catalysts promoters. Most of these catalysts are used for environmental relevant reactions and XAFS spectroscopy gives an important contribution to deepen our understanding of the sub nano modifications.

I was scientific partner at SOLEIL of the EMA (Embedded Magnetic Nanowires) and now of the Optymal (OPerando and in-situ specTrosopies for renewable energy MATerials) ANR projects.

Employment and Studies

2013- principal investigator and beamline manager of SAMBA beamline, SOLEIL

2004-2013 scientist at the SAMBA beamline, SOLEIL

2001-2004 “Magnetic properties of metallic clusters embedded in matrices”, Marie Curie fellowship of the Human Resources program. Contract No. HPMF-CT-2001-01125.

2001 Collaboration contract at Elettra (XAFS beamline construction and research)

1998-2001 Joint French and Italian PhD in Chemical Sciences obtained on February 26th, 2001 at the Dept. of Chemical Sciences of the Università degli Studi di Trieste (Italy) under the direction of Prof. G. Vlaic in Trieste and of prof. A. Michalowicz at the GPMD laboratory of the University of Paris XII, Creteil (Paris, France).