#

# **Curriculum Maurizio Filippo Acciarri**

**PERSONAL DATA**

*Name:* **MAURIZIO FILIPPO**

*Surname:* **ACCIARRI**

*Date of birth:* **1 July 1961**

*Birth place*: **Milan**

*Marital status*: **Married, 2 Children**

PEC maurizio.acciarri@pec.it

*Military obligations*: **Acquitted**

*Resident*: **Via De Pretis, 36 20142 Milano**

*Phone*: **+390264485136 (work)**

*Mobile*: **+393282939515**

**CURRENT POSITION AND BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY**

## Since 01/10/2014 he has been Professor of II level in Physics (Scientific Disciplinary Sector FIS / 01 Experimental Physics - Competition Sector 02 / B1) at the Materials Science Department of the University of Milan Bicocca.

## He carries out his teaching activity in the three-year degree courses of Biological Sciences, Optics and Optometry and Physics.

## The scientific activity of Maurizio Acciarri, which since 2006 has been carried out in full autonomy, scientific, design and economic independence, is placed in the growth and electrical characterization of inorganic materials for photovoltaic applications and more generally for opto-electronic applications. At the beginning of his research activity he had the opportunity to collaborate in the activities carried out by INFN at CERN.

## Over time, his interest has turned to more general aspects of energy and sustainability, leading him to study the capture and use of CO2 and to start studies for energy efficiency. For the latter topic, he is currently in charge of the University Energy Com<mission of the Milano Bicocca University which aims to start the energy efficiency of the University.

## The research activities led to the transfer of technology to two production plants (thin film deposition plant for photovoltaic applications and a biogas purification process plant through CO2 capture).

## Driven by his interest in more general aspects related to energy sustainability, in 2021 he created an international network "SILKWAY - Energy, Connectivity, Environment, People" made up of universities, local and international stakeholders and other external partners from Europe and Asia. The aim is to create a network capable of managing projects, dialoguing with local authorities and creating multilateral agreements on issues such as energy and sustainability, mobility, environment and intercultural connections.

**ACADEMIC CAREER**

*April 2017*National scientific qualification for Full Professor - Competition sector 02 / B1 EXPERIMENTAL PHYSICS OF MATTER.

*October 2014- today*Associate Professor for the scientific-disciplinary sector FIS / 01 at the Department of Materials Science of the University of Milan Bicocca.

*2002- 2014* Researcher confirmed since 21.02.2002 for the scientific-disciplinary sector FIS / 01 at the Department of Materials Science of the University of Milan Bicocca.

*1998- 2002* Technical Collaborator - From 27.04.98 to 21.02.2002 he was an employee of the University of Milan Bicocca at the Department of Materials Science with the qualification of Technical Collaborator and manager of the Scanning Electron Microscopy (SEM) service.

*1996 – 1998* Researcher - From March 1996 to March 1998 he was a researcher at the Milano Ricerche Consortium.

*1992 – 1998* Associated with INFN (National Institute of Nuclear Physics)

**TRAINING**

*1993 – 1996* Scholarship holder - From 1993 to March 1996 he worked at the Department of Physical Chemistry and Electrochemistry with scholarships from the Milano Ricerche Consortium

*March 1993:* Specialization in Materials Science and Technology from the School of Specialization in Materials Science and Technology of the University of Milan. Vote66/70

Title "Interaction between oxygen carbon hydrogen and extended defects in polycrystalline silicon"

*March 1990:* Degree in Physics at the University of Milan - solid state physics specialization. Title "Influence of oxygen and carbon segregation on the electrical properties of grain boundaries in silicon" was carried out at the Department of Physical Chemistry and Electrochemistry. Vote103/110.

## **CURRENT AFFILIATIONS AND POSITIONS**

* He is part of the doctoral college in Scientific, Technological and Social Methods enabling Circular Economy
* He is professor and coordinator of the Scientific Committee of the GEM "Green Energy Management" Summer School of the University of Milan Bicocca.
* He is a member of the Scientific Board of BASE (Bicocca Ambiente Società Economia) of the Milano Bicocca University. He is the coordinator of the Energy Committee of the Milan-Bicocca University within BASE which aims to improve the energy efficiency of the University.
* He is the Rector's delegate for the Technical-Scientific and Didactic Committee of the Italbiotec Consortium.
* He is the Rector's delegate for the meetings of the Lombardy Green Chemistry Association - LGCA Cluster. Since 2021, he has been a member of the Board of Directors of the same association
* From 2022 he is in the Scientific Committee of the Polaris centre of the University of Milano Bicocca
* Since 2020 he has been a member of the Institutional Research Committee of the NATIONAL ENERGY TECHNOLOGY CLUSTER (CTNE) representing national physicists.
* He is part of the RUS (Network for the Sustainable Development of Universities) energy working group as a contact for UNIMIB for the energy sector.
* He is part of the doctoral college in SUSTAINABLE HUMAN DEVELOPMENT of the Milano Bicocca University. He is also its deputy co-ordinator.
* He is a member of the Bioeconomy Working Group of the SPRING Cluster, representing the University of Milan-Bicocca.
* He sits at the working table of the Circular Economy and Energy Transition Observatory - Technical Secretariat of the Lombardy Region
* Since 2021 he has been a member of the scientific committee of the Studies Center in Economics and Regulation of Services, Industry and the Public Sector of the Milano Bicocca University (CESISP).
* He is a member of the scientific committee of the Milano-Bicocca Center for the Study of Materials, Processes and Devices for Solar Energy - MIB-SOLAR. He was its director until 2018-2019.
* He is a member of the Management Committee of the Microscopy Platform of the Milano Bicocca University. He was its director until 2019.
* From 2021 is the President of the international network “SILKWAY - Energy, Connectivity, Environment, People”.
* He is in charge of the workshop of the Materials Science Department.

## **TEACHING ACTIVITY**

**Current academic year 2020-2021:**

* He is a lecturer for the Physics course for the degree course in Biological Sciences (8 CFU)
* He is a lecturer for a laboratory shift for the course of HISTORY OF MODERN PHYSICS AND OPTICAL INSTRUMENTS degree in Optics and optometry (3 CFU).
* For the degree course in Physics he teaches at the Semiconductor Physics laboratory (4 CFU)
* It carries out a cycle of lessons for a total of 6 hours as part of the Energetics course of the Master's Degree in Physics

## **DOCTORATE SUPERVISION ACTIVITIES AND DEGREE THESIS**

He was supervisor of two theses for the international doctorate in sustainable human development at the Milano Bicocca University. He has been supervisor of about 150 three-year and master's degree theses in Physics, Materials Science and Optics and Optometry.

###  **AWARDS**

In 2015 he received the 20,000 Euro "Innovation Grant" first edition of the University of Milan Bicocca. The project involved the technological transfer of the Cu (In, Ga) Se2 thin film deposition procedure for photovoltaic applications. Maurizio Acciarri was the project manager.

### **ACKNOWLEDGMENTS AND LIBRARY DATA**

In 2020 he was included by the journal PLOS Biology in the "List of top 2% world scientists, career-long citation impact" (https://doi.org/10.1371/journal.pbio.3000384)

In 2021 it was included by the journal PLOS Biology in the "List of top 2% world scientists, career-long citation impact" (https://doi.org/10.1371/journal.pbio.3000918)

It is mentioned in the Top Italian Scientists (TIS)

**RESEARCH PROJECTS AND CONTRACTS**

He has coordinated (N ° 6) or participated (N ° 14) in research projects admitted to funding on the basis of competitive calls which provide for peer review.

Over the years, university research has been accompanied by a substantial research activity aimed at companies.

## **ARTICLE REFERENCE ACTIVITIES**

He has carried out and carries out refereeing activities for national and international projects, and referee for international journals. Currently it is:

* Since 2017 he has been a member of the Editorial Board as Associate Editor of Solar Energy magazine.
* Since 2019 he has been a member of the Editorial Board of the international magazine Advanced Energy Materials.
* Since 2019 he has been a member of the Editorial Board of the international magazine Energies.
* Since 2021 he has been a member of the Editorial Board of the international magazine Green Technology, Resilience, and Sustainability
* Since 2022 he has been a member of the Editorial Board of the international magazine Clean Energy and Sustainability
* Since 2022 he has been Editor in Chief of the Renewable and Sustainable Energy magazine.
* In 2019 he was selected as "Outstanding Reviewer for Semiconductor Science and Technology for 2019"

## **PROJECT REPORTING ACTIVITIES**

He has carried out refereeing activities for:

* Czech Scien He has carried out refereeing activities for ce Foundation and the German-Israeli Foundation for Scientific Research and Development 2012
* Luxembourg National Research Fund (FNR) - CORE 2013
* SOPHIA Trans National Access 2014
* The German Israeli Foundation for Scientific Research and Development 2014
* The German Israeli Foundation for Scientific Research and Development 2015
* Call for applications from the University of Verona Joint Projects 2017
* Biennial research project Cariplo Foundation Sardinia Annuity 2018
* Biennial research project Cariplo Foundation Sardinia Annuity 2019

## **PUBLICATIONS**

http://orcid.org/ [0000-0001-8409-657X](https://orcid.org/0000-0001-8409-657X)

Author or co-author of more than 260 scientific articles in indexed peer-reviewed international journals

1 book chapter

11 patents

30 Oral communications at congresses

49 publications on proceedings

**Quotes updated September 2021**

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| --- | --- | --- | --- |
|  | Scholar | Web of science | Scopus |
|  | All  | From 2016 | All  | From 2009 | All |
| Publications | 260 |  | 259 | 81 | 270 |
| Quotes  | 11867 | 2314 | 6292 | 975 | 7114 |
| H  | 60 | 21 | 40 | 19 | 41 |