

PERSONAL INFORMATION**Silvia Rubini**

 CNR IOM - Istituto Officina dei Materiali, Area di Ricerca,
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 rubini@iom.cnr.it

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input checked="" type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

from 01/12/2021 to today

Permanent Level II Researcher

Istituto Officina dei Materiali del CNR (CNR – IOM), Trieste (Italy)

- Growth of semiconductor compound nanostructures by molecular beam epitaxy and their characterisation.

Business or sector: Research

from 01/10/1999 to 31/12/2020

Permanent Level III Researcher

Laboratorio TASC INFM, Trieste (Italy), later renamed Istituto Officina dei Materiali del CNR (CNR – IOM), Trieste (Italy)

- Growth of semiconductor compound epitaxial layers and nanostructures by molecular beam epitaxy and their characterisation.

Business or sector: Research

from 01/01/1997 to 30/09/1999

Fixed-term Level III Researcher

Laboratorio TASC INFM, Trieste (Italy)

- Epitaxial growth and characterization of semiconducting compounds.

Business or sector: Research

from 01/07/1995 to 31/12/1996

Postdoc

Laboratorio TASC INFM

- Epitaxial growth and characterization of semiconducting compounds.

Business or sector: Research

from 01/01/1994 to 30/06/1995

Postdoc

Università degli Studi di Pavia (Italy)

- Study of High T_c superconducting materials by nuclear magnetic resonance.

Business or sector: Research

from 01/10/1993 to 31/12/1993

Visitor scientist

Institute of Experimental Physics of the Federal Institute of Technology of Lausanne (EPFL)(CH).

- Phase transformation in metallic alloys by nuclear magnetic resonance.

Business or sector: Research

from 01/01/1993 to 30/09/1993

Angelo Della Riccia Foundation Fellow

Centre Européen de Calcul Atomique et Moléculaire' (CECAM) of Paris Sud University (F) and
Sèction de Recherche en Metallurgie Physique' of the Commissariat à l'Energie Atomique (CEA),
Saclay (F).

- Phase transformations in solids by molecular dynamics.

Business or sector: Research

from 01/09/19883 to 31/129/1992

Assistant de Recherche

Federal Institute of Technology of Lausanne (EPFL, CH), in the Institute of Experimental Physics.

- Martensitic transformation in shape memory alloys.

Business or sector: Research

from 01/01/1987 to 30/08/1988

Donegani Foundation and Montefluos Fellow

Industrial Chemistry and Chemical Engineering Departement of the Institute of Technology of Milan
(Italy).

- Fracture mechanics in fluorinated rubbers.

Business or sector: Research

EDUCATION AND TRAINING

24/11/1992

Ph.D. (Docteur ès Sciences)

EQF level 8

Physics Department of the Federal Institute of Technology of Lausanne (EPFL).

"Martensitic Transformations in Shape Memory Alloys by Nuclear Magnetic Resonance".

1707/1987

Master Degree in Physics (Scienze Fisiche) (class 20/S)

EQF level 7

Università degli Studi di Pavia (Italy)

110/110 cum laude

"Studio NMR della transizione di collasso in gel".

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English, French

Job-related skills

- Molecular beam epitaxy (MBE), x-ray photoemission spectroscopy (XPS), synchrotron radiation spectroscopy and microscopy, x-ray diffraction, scanning electron microscopy.

- Digital skills
- Knowledge of the Microsoft Office suite
 - Basic Knowledge of Igor data analysis software.
 - Knowledge of Fortran

ADDITIONAL INFORMATION

Publications *Author of more than 150 papers on international journals. h-index 26 (WoS).*
Selected publications:

- Federico Berto, Niloofar Haghighian, Katja Ferfolja, Sandra Gardonio, Mattia Fanetti, Faustino Martelli, Valentina Mussi, Vladimir G. Dubrovskii, Igor V. Shtrom, Alfonso Franciosi and Silvia Rubini
Ga₂Se₃ Nanowires via Au-Assisted Heterovalent Exchange Reaction on GaAs
J. Phys. Chem. C 2020, 124, 32, 17783–17794
- Giorgio Pettinari, Loris Angelo Labbate, Mayank Shekhar Sharma, Silvia Rubini, Antonio Polimeni and Marco Felici
Plasmon-assisted bandgap engineering in dilute nitrides
Nanophotonics, vol. 8, no. 9, 2019, pp. 1465-1476.
- Marta De Luca, Silvia Rubini, Marco Felici, Alan Meaney, Peter C. M. Christianen, Faustino Martelli, and Antonio Polimeni
Addressing the Fundamental Electronic Properties of Wurtzite GaAs Nanowires by High-Field Magneto-Photoluminescence Spectroscopy
Nano Letters 17(11), 6540 (2017)
- Marta Orrù, Eva Repiso, Stefania Carapezzi, Alex Henning, Stefano Roddaro, Alfonso Franciosi, Yossi Rosenwaks, Anna Cavallini, Faustino Martelli, and Silvia Rubini
A Roadmap for Controlled and Efficient n-Type Doping of Self-Assisted GaAs Nanowires Grown by Molecular Beam Epitaxy
Advanced Functional Materials 26, 2836 (2016)
- Valentina Zannier, Vincenzo Grillo, Faustino Martelli, Jasper Rikkert Plaisier, Andrea Lausi and Silvia Rubini
Tuning the growth mode of nanowires via the interaction among seeds, substrates and beam fluxes
Nanoscale 6, 8392 (2014)
- Simone Birindelli, Marco Felici, Johannes S. Wildmann, Antonio Polimeni, Mario Capizzi, Annamaria Gerardino, Silvia Rubini, Faustino Martelli, Armando Rastelli, and Rinaldo Trotta
Single Photons on Demand from Novel Site-Controlled GaAsN/GaAsN:H Quantum Dots
Nano Lett. 2014, 14, 3, 1275–1280
- Giacomo Priante, Stefano Ambrosini, VladimirG. Dubrovskii, Alfonso Franciosi, and Silvia Rubini
Stopping and resuming at will the growth of GaAs nanowires
Crystal Growth and Design, 2013, 13(9), pp. 3976–3984

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