

PERSONAL INFORMATION

Giancarlo Pepponi



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 <https://sd.fbk.eu/en/research/mnf-micro-nano-facility/>

WORK EXPERIENCE

01.04.2022 - present

Head of Unit

Fondazione Bruno Kessler, Centre for Sensors and Devices, Custom Radiation Sensors
18, via Sommarive, Trento, 38123, Italy

Head of the Custom Radiation sensors (CRS) Unit of the Centre for Sensors and Devices. Coordination of a team of 15+ research scientists working on the development of custom radiation sensors in silicon with different technologies including p-i-n diodes, silicon strip and pixel detectors, low gain avalanche diodes, silicon photo-multipliers, silicon drift detectors. Coordination of networking and relationships: collaboration agreements, IP management. Coordination of research projects. Budget management. Contracts and tenders. Competitive funded research proposals.

Micro-nano-fabrication, materials characterization, project and people management

01.01.2018 – 31.03.2022

Head of Research and Development

Fondazione Bruno Kessler, Centre for Sensors and Devices, Micro Nano Facility
18, via Sommarive, Trento, 38123, Italy

Head of Research and Development of the Micro-nano Characterisation and Fabrication Facility, MNF. Coordination of research projects. Acquisition of equipment. Coordination of a team of 15+ research scientists working in different areas of micro-nano-fabrication and characterization. Implementation of quality procedures in research activities. Coordination of networking and relationships: collaboration agreements, contracts, IP management.

Micro-nano-fabrication, materials characterization, project and people management

01.01.2014 – 31.12.2017

Head of Materials Characterization Group

Fondazione Bruno Kessler, Centre for Sensors and Devices, Micro Nano Facility
18, via Sommarive, Trento, 38123, Italy

Coordinator of Materials Characterization group of the Micro-nano Characterisation and Fabrication Facility, MNF. Coordination of research projects. Acquisition of equipment. Coordination of a team of 5+ research scientists working with different analytical techniques (XPS, SIMS, XRF, XRD, SEM, EDX, EBSD, AFM). Implementation of quality procedures in characterization activities. Coordination of networking and relationships: collaboration agreements, contracts, IP management.

Micro- nano- materials characterization, project and people management

01.01.2014 – 31.12.2017

Head of Materials Characterization Group

Fondazione Bruno Kessler, Centre for Sensors and Devices, Micro Nano Facility
18, via Sommarive, Trento, 38123, Italy

Coordinator of Materials Characterization group of the Micro-nano Facility, MNF. Coordination of research projects. Acquisition of equipment. Coordination of a team of 5+ research scientists working with different analytical techniques (XPS, SIMS, XRF, XRD, SEM, EDX, EBSD, AFM).

01.12.2006 – 31.12.2013

Research Scientist

Fondazione Bruno Kessler, Centre for Sensors and Devices, Micro Nano Facility
18, via Sommarive, Trento, 38123, Italy,

EDUCATION AND TRAINING

14.06.2010 - 19.02.2011

Visiting scientists – Marie Curie Action Grant awardee

CRISMAT, ENSICAEN, Caen , France

Combination of X-Ray Diffraction and X-Ray Fluorescence Techniques in Material Science

Development of the Materials Properties Database MPOD

October 1999 – June 2003

Dr. techn. - equivalent to PhD (Mit Auszeichnung - with honour)

Technische Universität Wien - Vienna University of Technology, Vienna , Austria

X-Ray Physics, X-Ray Fluorescence

Instrumental design, preparation and conduction of experiments at different synchrotron radiation facilities (HASYLAB, SSRL, Bessyl-PTB laboratory), data evaluation and interpretation.

PhD thesis "Synchrotron Radiation induced Total Reflection XRF Analysis applied to Material Science "

October 1993 – June 1999

Laurea in Fisica - equivalent to Masters in Physics (110/110 e lode - 110/110 with honour)

Università degli Studi di Trento - University of Trento, Trento, Italy

General Physics degree, specialization and thesis in X-Ray Physics.

September 1991 – May 1993

IB - bilingual (Italian, English) Diploma (39/45)

Atlantic College - United World College of the Atlantic, Llantwit Major, Wales, UK

High school following the International Baccalaureate (IB) program

Admission after winning a scholarship in an open competition.

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

Other languages, Self-assessment, European level

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
• English	C2	C2	C2	C2	C2
• German	C1	C1	B2	B1	B1
• French	B2	B3	B1	A3	A2

Job-related skills

Transnational Access Manager of the ANNA FP6 Project, European Integrated Activity of Excellence and Networking for Nano and Micro- Electronics Analysis
Integrating Activity implemented as Integrated Infrastructure Initiative
Contract number: RII3-CT-2006-026134

Digital skills

Programming and scientific data analysis with python, R, C

Other skills

Supervision of students, organisation of scientific events, Technology transfer

ADDITIONAL INFORMATION

Publications

Author and co-author of over 100 refereed publications (www.scopus.com)

Five publications selected on competences developed along the years and related to the proposal are presented below.

1. Hierarchical thermoplastic rippled nanostructures regulate Schwann cell adhesion, morphology and spatial organization, C Masciullo, R Dell'Anna, I Tonazzini, R Böettger, G Pepponi, M Cecchini, *Nanoscale* 9 (39), 14861-14874, 2017

2. ZnO and Au/ZnO thin films: Room-temperature chemoresistive properties for gas sensing applications

Andrea Gaiardo, Barbara Fabbri, Alessio Giberti, Vincenzo Guidi, Pierluigi Bellutti, Cesare Malagù, Matteo Valt, Giancarlo Pepponi, Sandro Gherardi, Giulia Zonta, A Martucci, M Sturaro, Nicolò Landini, *Sensors and Actuators B: Chemical* 237, 1085-109, 2016

3. Intrinsic magnetism and hyperthermia in bioactive Fe-doped hydroxyapatite, Anna Tampieri, Teresa D'Alessandro, Monica Sandri, Simone Sprio, Elena Landi, Luca Bertinetti, Silvia Panseri, Giancarlo Pepponi, Joerg Goettlicher, Manuel Bañobre-López, Jose Rivas, *Acta biomaterialia* 8 (2), 843-851, 2012

4. Characterization of atmospheric aerosols using Synchrotron radiation total reflection X-ray fluorescence and Fe K-edge total reflection X-ray fluorescence-X-ray absorption near-edge structure, UEA Fittschen, F Meirer, C Strelli, P Wobrauschek, J Thiele, G Falkenberg, G Pepponi, *Spectrochimica Acta Part B: Atomic Spectroscopy* 63 (12), 1489-1495, 2008

5. Lead accumulation in tidemark of articular cartilage, Norbert Zöger, Paul Roschger, JG Hofstaetter, C Jokubonis, Giancarlo Pepponi, G Falkenberg, P Fratzl, A Berzlanovich, W Osterode, C Strelli, P Wobrauschek, *Osteoarthritis and Cartilage* 14 (9), 906-913, 2006

Trento, 23.03.2023