

Curriculum Vitae

EUROPEAN FORMAT

PERSONAL INFORMATION

Surname(s) / First name(s) **Patanè Salvatore**

Address(es)

Telephone(s) office: Mobile:

E-mail

Nationality

Date of birth

Gender

WORK EXPERIENCE

Date **From 2019 to date**

Name of employer **Università degli Studi di Messina – www.unime.it**

Position **Full Professor of experimental condensed matter physics.**

Former positions and dates

Position **2010-2019, Associate Professor of experimental condensed matter physics**

Name of employer Università degli Studi di Messina – www.unime.it

Position 1996-2010, Researcher

Name of employer Università degli Studi di Messina - www.unime.it

Position 1993-1996, Professor of Physics in high school.

Name of employer MIUR

International and National Projects as Principal Investigator and others

Other International and National Projects as Principal Investigator and others

- PON 2010-2012 "Ambition Power".
- Research contract signed with STMicroelectronics S.R.L. Ref.CDR.ST.UNIME.28.03.2011.003 "Evaluation of the reliability and lifetime of electronic power devices by time resolved IR scanning microscopy, and study and localization of current induced thermo-mechanical stresses"
- Research contract signed with STMicroelectronics S.R.L., Ref.CDR.ST.UNIME.07.05.2013.016 "Evaluation of the reliability of power electronic devices by means of time-resolved infrared microscopy and study of failure mechanisms due to fracture of the welding points by analysis of the mechanical deformations induced by thermal cycles"
- Project H2020-ECSEL-2016 "WinSic4AP"
- Project H2020-ECSEL-2020 "Progressus"
- Research contract signed with STMicroelectronics S.R.L. Rif. CDR.ST.UniME.DF.27.10.2020.003 CT2291, Codice IFRS: 10045496 ST contract number: 2020-4791 ""Analisi delle criticità strutturali e affidabilistiche della componente MOM in dispositivi elettronici BCD8"
- Research contract signed with STMicroelectronics S.R.L. Rif. CDR.ST.UniME.DF.14.12.2020.004 CT2291 - codice IFRS: 10045496 ST contract number: 2021-0008 "Caratterizzazione elettrica di layers e interfacce in tecnologia 4H-SiC"

Member of the Editorial Board of International Scientific Journals

"Member of the Topical Advisory Panel of *Nanomaterials*

EDUCATION AND TRAINING

Award Date **July 1989**
 Title of qualification awarded **Italian Laurea in Physics (summa cum laude)**, Università degli Studi di Messina
1990-1992 – PHD in Physics, Università degli Studi di Messina

PERSONAL SKILLS AND COMPETENCES

Language skills
 Mother tongue(s)

Other language(s)

Self-assessment

European level (*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

(*) Common European Framework of Reference (CEF) level

Social and communication skills

Organizational / managerial skills

2012 Referee for the evaluation of research projects for the "Office of Basic Energy Sciences (BES)", Department of Energy, USA
 2012-present: Scientific expert for the evaluation of research quality and of the projects of MIUR (REPRISE)
 2015-present: scientific expert for the evaluation of projects for the Agence Nationale de la Recherche (France).
 2018 scientific expert for the evaluation of projects for the *King Fahd University of Petroleum & Minerals* (KFUPM), Dhahran, Saudi Arabia.

Research areas and knowledge, Scientific activity and general information

Research areas and knowledge

Characterization of materials and nanostructures by near field optical microscopy and spectroscopy and AFM techniques, development of hybrid organic inorganic photonics devices with special attention to the realization of energy conversion systems and devices, the study of optical confinement phenomena in micro cavities and the light matter interaction, the characterization of power electronic devices and the estimation of their life time by studying the thermomechanical stress and the induced plastic strain.

Scientific activity and other information

The research activity is certified by over 155 papers published in international high-level journals and/or books, and by over 50 talks (including some invited) delivered at international or national conferences or at research institutes.

The scientific papers have been extensively quoted in the literature, as certified by the h-index (24) with over 2000 citations (data from Scopus, February 2022).

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

21/03/2022

Salvatore Patanè