PERSONAL INFORMATION

Antonino La Magna

+390955968220 office

antonino.lamagna@imm.cnr.it

Skype Antonino La Magna

Sex Male | Date of birth 10/04/1968 | Nationality Italian

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR

Expert tender commissions

WORK EXPERIENCE

from 01 January 2020 –present

Director of Research

CNR Istituto per la Microelettronica e Microsistemi Zona Industriale VIII Strada 5 I95121 Catania (Italy) website: www.imm.cnr.it

- Advanced methodology for micro- and nano-electronic devices: team leader
- Coordination activity of a research group (6 staff researches, 3 technicians, 1 secretary, 8 post-doc)
- Nano-electronics modelling and numerical methods
- Solar cells processing and characterization
- Graphene and other Carbon based nanostructure
- Flexible electronics on plastic substrates

from 01 January 2010 – to 31December 2020

Senior Researcher

CNR Istituto per la Microelettronica e Microsistemi Zona Industriale VIII Strada 5 I95121 Catania (Italy) website: www.imm.cnr.it

- Advanced methodology for micro- and nano-electronic devices: team leader
- Coordination activity of a research group (6 staff researches, 3 technicians, 1 secretary, 8 post-doc)
- Nano-electronics modelling and numerical methods
- Solar cells processing and characterization
- Graphene and other Carbon based nanostructure
- Flexible electronics on plastic substrates

From 28 December 2000 - to 31 December 2009

Business or sector Research and development - Public body

Researcher (permanent position)

CNR Istituto per la Microelettronica e Microsistemi Zona Industriale VIII Strada 5 I95121 Catania (Italy) website: www.imm.cnr.it

- Nano-electronics modelling and numerical methods

from 16 April 1999 - to 28 December 2000

Business or sector Research and development - Public body

Researcher (temporary position)

CNR Istituto per la Microelettronica e Microsistemi Zona Industriale VIII Strada 5 I95121 Catania (Italy) website: www.imm.cnr.it

- Nanoelectronics modelling and numerical methods

from 1 February 1999 - to 15 April 1999

Business or sector Research and development - Public body

External collaboration

STMicroelectronics Stradale Primosole 50 95121 Catania (Italy) website: www.st.com

- Development and applications of codes for the device and process simulation

from 1 February 1997 -

Business or sector Research and development

Post-Doc Position

to 31 January 1999

CNR Istituto per le Metodologie e Tecnologie per la Microelettronica Stradale Primosole 50 95121 Catania (Italy) website: www.cnr.it

- Development and applications of codes for the device and process simulation

Business or sector Research and development

from 1 November 1996 - to 31 January 1997

Post-Doc Position

Istituto Nazionale di Struttura della Materia

- Development of codes for computational material science applications

from 5 February 1996 - to 5 August 1996

Post-Doc Position

Centro Siciliano di Fisica Nucleare e Struttura della Materia

- Development of codes for computational material Science applications

Business or sector Research

from 1 November 1996 - to 31 January 1997

EDUCATION AND TRAINING

from 1 November 1992 - to 31 October 1995

PhD in Physics

Replace with EQF (or other) level if relevant

Università degli Studi Di Catania (Italy)

- Advenced courses related to the discipline of the PhD
- Development of codes for the computation in materials science
- Title of the thesis: *The theory of polaron in low-dimensional discrete systems*

from 1 November 1992 - to 31 October 1995

Degree in Physics cum laude

Replace with EQF (or other) level if relevant

Università degli Studi Di Catania (Italy)

- Under graduate courses related to the discipline
- Development of codes for the computation in materials science
- Title of the thesis: *Study of correlations between holes in high-Tc superconductors by means of exact calculations of finite clusters*

from 1 November 1992 - to 31 October 1995

Degree in Physics cum laude

Replace with EQF (or other) level if relevant

Università degli Studi Di Catania (Italy)

- Under graduate courses related to the discipline
- Development of codes for the computation in materials science
- Title of the thesis: *Study of correlations between holes in high-Tc superconductors by means of exact calculations of finite clusters*

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills
- leadership (currently responsible for a team of about 10 people)

Computer skills
- Proficient Programmer (Fortan 90/95, C++, Python)

Driving licence
driving licence category B

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

He is author of more 300 publications in International Journals (h-index 36 i-10 index 171 Google Scholar). He is and has been coordinator and/or responsible for the CNR-IMM of several national and international projects and research contracts on behalf of industry. He has acted as a reviewer for more than 400 articles published in leading scientific journals. He has participated to review panels, also with the role of chais, for the evaluation of foreign scientific institutions and international projects. He belongs to the European Science Foundation College of Review Panel Members.

Relevant publication

1) "Multiscale modelling of ultrafast melting phenomena" Gaetano Calogero, Domenica Raciti, Pablo Acosta-Alba, Fuccio Cristiano, Ioannis Deretzis, Giuseppe Fisicaro, Karim Huet, Sebastien Kerdiles, Alberto Sciuto and Antonino La Magna, npj Computational Materials in stampa 2022

2) "Genesis and evolution of extended defects: The role of evolving interface instabilities in cubic SiC" Giuseppe Fisicaro, Corrado Bongiorno, Ioannis Deretzis, Filippo Giannazzo, Francesco La Via, Fabrizio Roccaforte, Marcin Zielinski, Massimo Zimbone, Antonino La Magna. Appl. Phys. Rev. 7, 021402 (2020).

3) "Nitrogen soaking promotes lattice recovery in polycrystalline hybrid perovskites" Alessandra Alberti, Ioannis Deretzis, Giovanni Mannino, Emanuele Smecca, Filippo Giannazzo, Andrea Listorti, Silvia Colella, Sofia Masi, Antonino La Magna Adv. Energy Mater.2019, 9, 1803450;

4) "Theoretical study of the laser annealing process in FinFET structures" SF Lombardo, G Fisicaro, I Deretzis, A La Magna, B Curver, B Lespinasse, K Huet; Appl. Surf. Sci. Volumes 467–468, 15 February 2019, Pages 666-672;

5) "Atomistic origins of CH3NH3PbI3 degradation to PbI2 in vacuum" I. Deretzis, A. Alberti, G. Pellegrino, E. Smecca, F. Giannazzo, N. Sakai, T. Miyasaka, and A. La Magna, Appl. Phys. Lett. 106, 131904 (2015)

Relevant projects

1) Modeling Unconventional Nanoscaled Device FABrication (MUNDFAB), Commissione Europea, H2020-ICT-2019-2 - Responsabile Unità Operativa CNR e WP leader - 537.395 Euro (Budget CNR)

2) Metrology Advances for Digitized ECS industry 4.0 (MADEin4), Commissione Europea H2020-ECSEL-2018-1-IA-two-stage - Responsabile Unità Operativa CNR e task leader - 999.750 Euro (Budget CNR)

3) 3C-SiC Hetero-epitaxiALLy grown on silicon compliancE substrates and 3C-SiC substrates for sustaiNable wide-band-Gap powEr devices (CHALLENGE), Commissione Europea - H2020-NMBP-2016-two-stage - Partener Representative e Task Leader - 1.680.873,81 Euro (Budget CNR)

Date 21/01/2022