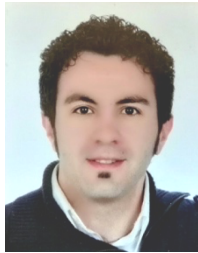


PERSONAL INFORMATION

Salvatore Sanzaro


[ResearchGate](https://www.researchgate.net/profile/Salvatore_Sanzaro) https://www.researchgate.net/profile/Salvatore_Sanzaro
[Google Scholar](http://scientificreport.edu/salvatoresanzaro) <http://scientificreport.edu/salvatoresanzaro>
[LinkedIn](http://www.linkedin.com/in/salvatore-sanzaro-023b4b98) www.linkedin.com/in/salvatore-sanzaro-023b4b98

WORK EXPERIENCE

From 01.04.2019 today

Post-Doc Researcher

National Research Council - Institute for Microelectronics and Microsystems (CNR-IMM), Zona Industriale VIII Strada, 5 – 95121 Catania, Italy.

- [Research project](#) – WinSIC4App
- [Research Programme](#) – Basic studies and optimization of metallization and oxidation processes on SiC.
- [Topic](#) - Study, characterization and analyses by simulation of metallization processes with conventional and laser heating. Focus on interfaces between SiC and Nickel Silicides. Study, characterization and analyses by simulation of oxidation processes of SiC upon variation of the polytype and of the exposed surface.

[Attività o settore](#) Chemistry-Physics for Nanotechnologies.

From 12.10.2018 to 31.03.2019

Teacher Natural Sciences, Chemistry and Geography, Microbiology at I.T.I.S. G. Feltrinelli

Secondary School, Industrial Technical Institute of Higher Education (I.T.I.S.) Giacomo Feltrinelli (MITF070009), Piazza Tito Lucrezio Caro 8, 20136 Milano, Italy.

- Natural Sciences, Chemistry and Geography, Microbiology.

[Business or sector](#) Teaching.

From 26.09.2018 to 11.10.2018

Teacher Natural Sciences, Chemistry and Geography, Microbiology at I.I.S. L. Galvani

Secondary School, Institute of Higher Education (I.I.S.) Luigi Galvani (MIIS05400X), Via Francesco Gatti, 14 - 20162 Milano, Italy.

- Natural Sciences, Chemistry and Geography, Microbiology.

[Business or sector](#) Teaching.

From 02.11.2017 to 30.06.2018

Teacher Natural Sciences, Chemistry and Geography, Microbiology at I.I.S. G. Giorgi

Secondary School, Institute of Higher Education (I.I.S.) Giovanni Giorgi (MIIS082004), Viale Liguria 19/21, 20143 Milano, Italy.

- Natural Sciences, Chemistry and Geography, Microbiology.

[Business or sector](#) Teaching.

From 01.11.2014 to 31.10.2017

Ph.D. Student in Physics – XXX Cycle

University of Messina, Department of Mathematical and Computational Sciences, Physics and Earth Sciences (MIFT), V. le F. Stagno d'Alcontres 31, Messina 98166, Italy.

Associated with National Research Council - Institute for Microelectronics and Microsystems (CNR-IMM) Zona Industriale VIII Strada, 5 – 95121 Catania, Italy, from 17.07.2015

- Topic scholarship – Semiconductor Oxides deposited by reactive sputtering for photovoltaic and sensor applications.

Business or sector Chemistry-Physics for Nanotechnologies.

From 03.07.2017 to 31.07.2017

Stage at ESRF

European Synchrotron Radiation Facility (ESRF), 71 Avenue des Martyrs, 38000 Grenoble, France.

- Porous TiO₂ thin film structures for photovoltaic applications studied by Coherent X-ray Diffraction Imaging: CXDI data collection and management of software packages for analysis with Linux, ImageJ and Chimera for tomographic image reconstruction.

Business or sector Chemistry-Physics for Nanotechnologies.

From 28.03.2017 to 28.06.2017

Teacher of Polymer at CAMPLUS COLLEGE D'ARAGONA

University Camplus College D'Aragona, Via Monsignor Ventimiglia 184, Catania 95129, Italy.

- Science and Chemical Technology of polymer.

Business or sector Teaching.

From 11.11.2016 to 24.06.2017

Teacher Natural Sciences, Chemistry and Geography, Microbiology at I.T.C. E. Mattei (on leave for Ph.D.)

Secondary School, Commercial Technical Institute (I.T.C.) Enrico Mattei (MITD52000A), Via Padre Luigi Vaiani, 18, 20017 Rho, Milano, Italy.

- Natural Sciences, Chemistry and Geography, Microbiology.

Business or sector Teaching.

From 12.09.2016 to 15.12.2016

Stage at LMGP

Laboratoire des Matériaux et du Génie Physique (LMGP), Grenoble INP – Minatec, 3 parvis Louis Néel - CS 50257 - 38016 Grenoble cedex 1, France.

- TiO₂ micro-flowers deposited by Assisted Aerosol Metal Organic Chemical Vapor Deposition (AA-MOCVD) and structural, optical and morphological characterizations for photovoltaic applications: independent use of the equipment and analyses of the grown materials.

Business or sector Chemistry-Physics for Nanotechnologies.

From 26.01.2016 to 30.06.2016

Teacher Natural Sciences, Chemistry and Geography, Microbiology at I.I.S. J. C. Maxwell (on leave for Ph.D.)

Secondary School, Institute of Higher Education (I.I.S.) James Clerk Maxwell (MIRI01701L), Via Narni, 18, 20132 Milano, Italy.

- Natural Sciences, Chemistry and Geography, Microbiology.

Business or sector Teaching.

From 07.06.2016 to 14.06.2016

User at ESRF

European Synchrotron Radiation Facility (ESRF), 71 Avenue des Martyrs, 38000 Grenoble, France.

- Porous TiO₂ thin film structures for photovoltaic applications studied by Coherent X-ray Diffraction Imaging.

Business or sector Chemistry-Physics for Nanotechnologies.

From 03.06.2014 to 31.10.2014

Scholarship

National Research Council - Institute for Microelectronics and Microsystems (CNR-IMM), Zona Industriale VIII Strada, 5 – 95121 Catania, Italy.

- Research Project - PON Technologie per l'Energia e l'Efficienza Energetica (ENERGETIC).
- Topic: Study of the oxides deposited on not conventional substrates by reactive sputtering at low temperature. Mesoporous TiO₂ layers deposited on ZnO:Al (TCO = transparent conductive oxide) as a scaffold on plastic substrates for Dye Sensitized Solar Cells (DSSC).

Business or sector Chemistry-Physics for Nanotechnologies.

- From 26.04.2013 to 28.02.2014 **Thesis for Master's Degree in Chemistry of Materials**
Department of Chemical Sciences, University of Catania, V. le Andrea Doria 6, 95125 Catania, Italy.
National Research Council - Institute for Microelectronics and Microsystems (CNR-IMM) Zona Industriale VIII Strada, 5 – 95121 Catania, Italy.
▪ Experimental Thesis (Master Degree), Oxides deposition for photo-anodes in Dye-Sensitized Solar Cells (DSSC).
Business or sector Chemistry-Physics for Nanotechnologies.
- From 18.06.2011 to 07.05.2012 **Town Councillor**
Council member at Sortino's Municipality – Viale Mario Giardino – 9010 Sortino (SR), Italy.
▪ Assessor to the Town Police, Civil Protection, Agriculture and Forest, Commerce and Cemetery Services.
Business or sector Administration.
- From 02.11.2010 to 10.03.2011 **Thesis for Bachelor's Degree in Chemistry**
Department of Chemical Sciences, University of Catania, Viale Andrea Doria 6, 95125 Catania, Italy.
▪ Experimental Thesis (Bachelor's Degree), on synthesis and characterization of Kalium precursors and their applications.
Business or sector Inorganic Chemistry.
- From 24.05.2007 to 12.12.2007 **Public relationships**
E.R.S.U. (Ente Regionale per il Diritto allo Studio Universitario) – Via Etnea, 570 – 95128 Catania, Italy.
Business or sector Administration.
- From 26.04.2004 to 30.04.2004 **Stage in commercial sector**
Agenzia delle Entrate - Via Turchia, 2/4, Siracusa (SR), Italy.
▪ Training for work formation and work orientation.
Business or sector Commercial.

EDUCATION AND TRAINING

- 21st December 2018 **Qualification to the profession of CHEMIST**
Ordine dei Chimici - Via Giuffrida Vincenzo, 4, Catania (CT), Italy.
- 5th December 2017 **Ph.D. in Physics – Mention Doctor Europaeus**
Thesis title: "Newly-Designed Spongy TiO₂ Layers by Modified Sputtering Methods for Hybrid PhotoVoltaics".
University of Messina, Department of Mathematical and Computational Sciences, Physics and Earth Sciences (MIFT), V. le F. Stagno d'Alcontres 31, Messina 98166, Italy.
Associated with National Research Council - Institute for Microelectronics and Microsystems (CNR-IMM) Zona Industriale VIII Strada, 5 – 95121 Catania (CT), Italy, from 17.07.2015.
▪ Chemistry-Physics study of the optical-electrical-structural properties of semiconductor oxides; nano-materials deposition by reactive sputtering; optical analyses (UV-Vis, Infrared, Raman Spectroscopies and Spectroscopic Ellipsometry), morphological analysis (Scanning Electrical Microscopy), structural analyses (X-Ray Diffraction and Transmission Electrical Microscopy), chemical analyses (Energy Dispersive X-Ray and X-Ray Photoelectron Spectroscopy).
- 3rd December 2015 **Safety course in the industries (FAD)**
Prevention in the places of job, general knowledges.
National Research Council (CNR) – Servizio di Prevenzione e Protezione (SPP) – Italy.

28th March 2014 **Master's Degree in CHEMISTRY OF MATERIALS**

Vote: **110/110 cum Laude**.

Thesis title: "*Sequential deposition of TiO₂/ZnO:Al by reactive sputtering for photo-anodes in Dye Sensitized Solar Cells*".

Department of Chemical Sciences, University of Catania, V. le Andrea Doria 6, 95125 Catania, Italy.

1st December 2011 **Safety in laboratories course**

Department of Chemical Sciences, University of Catania, Viale Andrea Doria 6, 95125 Catania, Italy.

25th March 2011 **Bachelor's Degree in CHEMISTRY**

Vote: **101/110**.

Thesis title: "*Synthesis and characterization of new kalium complexes, K(hfa)polietere, and their applications for the preparation of fluoride compounds*".

Department of Chemical Sciences, University of Catania, Viale Andrea Doria 6, 95125 Catania, Italy.

18th July 2005 **School-leaving Certificate of ACCOUNTANT**

Vote: **95/100**.

Technical Commercial Institute, "Filadelfo Insolera", Via Modica, Siracusa (SR), Italy.

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	Reading
English	B1	B1	B1	B1	B1
French	A2	A1	A1	A1	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Detached abilities to listen, to report and to interact with the public, it acquired during the experience of assessor and PhD student within the respective institution.

Organisational / managerial skills Ability to work in binding situations, tied up to the expirations and the relationship with the public also in autonomous way. Acquired competences thanks to the experience in the research sector.

Job-related skills Theoretical-Practices competences arising from the use of instruments and equipment in Physical and Chemical laboratories following the experiences at the Universities (Catania and Messina, Italy) and at the National Research Council (CNR-IMM, Italy) during the experimental theses (master and Ph.D.). I would like to particularly mention independent skills and direct use of: reactive sputtering deposition equipment for oxides and metallic layers; UV-vis optical measurements; IR and Raman analyses; CXDI with synchrotron radiation; SEM and EDX analyses; XPS surface analyses and contact angle measurements; XRD analyses: Sheet resistance by four-point-probe equipment. Further experience was gained during the two stages at ESRF (Grenoble) and LMGP (Grenoble) on synchrotron techniques and chemical synthesis methods, respectively
 Theoretical-Practices competences in chemistry of materials for: surfaces functionalization and the related issues, especially for mesoporous oxides functionalization to be used in the Photovoltaic field (DSC) and for gas sensing; formation of oxide/hybrid perovskite blend for PSC and related issues; issues related to DSC and PSC devices, with special regards to photo-carrier transport phenomena in relationship with the material structure and the involved interfaces.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Achieved European Computer License (ECDL) on the date 21st December 2004.

- Knowledge of word processing software (WORD, POWER POINT), spreadsheets (EXCEL), processing programs and scientific graphics (ORIGIN Lab.), chemical drawing (ChemDraw, Avogadro) and 3D drawing (Chimera, ImageJ, Fiji) management software and analysis of experimental data XPS (htislab, Indago Software, XPSPEAK41), UV-VIS (JASCO) and TEM (Digital Micrograph).
- Good command of digital image processing programs.

Other skills

- Quality Control
- Accounting
- Teaching

Driving licence

B

ADDITIONAL INFORMATION

Publications in JCR journals

Title: *Full efficiency recovery in Hole Transporting Layer-free Perovskite Solar Cells with free-standing dry-carbon top-contacts.*

Authors: Salvatore Valastro, Emanuele Smecca, **Salvatore Sanzaro**, Ioannis Deretzis, Antonino La Magna, Youhei Numata, Ajay Kumar Jena, Tsutomu Miyasaka, Antonio Gagliano and Alessandra Alberti.

Journal: *Frontiers in Chemistry*, submitted. [I.F. @2018 = 3.8]

Year: 2019.

Title: *Bimodal Porosity and Stability of a TiO₂ Gig-Lox Sponge Infiltrated with Methyl-Ammonium Lead Iodide Perovskite.*

Authors: **Salvatore Sanzaro**, Federico Zontone, David Grosso, Thomas Bottein, Fortunato Neri, Emanuele Smecca, Giovanni Mannino, Corrado Bongiorno, Corrado Spinella, Antonino La Magna, Alessandra Alberti.

Journal: *Nanomaterials*, 9, 1300. [I.F. @2018 = 4.0]

Year: 2019.

Title: *Laser and Thermal Dewetting of Gold Layer onto Graphene Paper for non-Enzymatic Electrochemical Detection of Glucose and Fructose.*

Authors: Antonino Scandurra, Francesco Ruffino, **Salvatore Sanzaro** and Maria Grazia Grimaldi.

Journal: *Sensors and Actuators B: Chemical*, 301, 127113. [I.F. @2018 = 6.4]

Year: 2019.

Title: *Hybrid perovskites for photovoltaics: Story, challenges and opportunities.*

Authors: Alessandra Alberti, Emanuele Smecca, **Salvatore Sanzaro**, Giovanni Mannino, Ioannis Deretzis, Antonino La Magna.

Journal: *RIVISTA DEL NUOVO CIMENTO*, 42, 301-366. [I.F. @2018 = 7.6]

Year: 2019.

Title: *Nano-structured TiO₂ grown by low-temperature reactive sputtering for planar perovskite solar cells.*

Authors: Alessandra Alberti, Emanuele Smecca, **Salvatore Sanzaro**, Corrado Bongiorno, Filippo Giannazzo, Giovanni Mannino, Antonino La Magna, Maning Liu, Paola vivo, Andrea Listorti, Emanuele

Calabrò, Fabio Matteocci, Aldo Di Carlo.

Journal: ACS Applied Energy Materials, 2019 (In Press) [I.F. @2018 = 8.0]

Year: 2019.

Title: *In situ doping of gig-lox porous TiO₂ with N₂ for gas sensing.*

Authors: Emanuele Smecca, **Salvatore Sanzaro**, Clelia Galati, Lucio Renna, Leonardo Gervasi, Antonello Santangelo, Guglielmo Guido Condorelli, David Grosso, Thomas Bottein, Giovanni Mannino, Antonino La Magna and Alessandra Alberti.

Journal: Chemosensors: Nanotechnology Efforts for Chemical Sensors, 7, 12. [I.F. @2018 = 2.8]

Year: 2019.

Title: *Nitrogen doped spongy TiO₂ layers for sensors application.*

Authors: Emanuele Smecca, **Salvatore Sanzaro**, David Grosso, Thomas Bottein, Giovanni Mannino, Guglielmo Guido Condorelli, Antonino La Magna and Alessandra Alberti.

Journal: Materials Science in Semiconductor Processing, 98, 44-48. [I.F. @2018 = 2.7]

Year: 2019.

Title: *Properties of Al₂O₃ thin films deposited on 4H-SiC by reactive ion sputtering.*

Authors: Patrick Fiorenza, Marilena Vivona, Salvatore Di Franco, Emanuele Smecca, **Salvatore Sanzaro**, Alessandra Alberti, Mario Saggio, Fabrizio Roccaforte.

Journal: Materials Science in Semiconductor Processing, 93, 290-294. [I.F. @2018 = 2.7]

Year: 2019.

Title: *Innovative spongy TiO₂ layers for high sensitivity gas detection at low working temperature.*

Authors: Alessandra Alberti, Lucio Renna, **Salvatore Sanzaro**, Emanuele Smecca, Giovanni Mannino, Corrado Bongiorno, Clelia Galati, Leonardo Gervasi, Antonello Santangelo and Antonino La Magna.

Journal: Sensors and Actuators B: Chemical, 259, 658-667. [I.F. 2018 = 6.4]

Year: 2018.

Title: *Pervasive infiltration and multi-branch chemisorption of N719 molecules into spongy TiO₂ layers deposited by gig-lox sputtering processes.*

Authors: **Salvatore Sanzaro**, Enza Fazio, Fortunato Neri, Emanuele Smecca, Corrado Bongiorno, Giovanni Mannino, Rosaria Anna Puglisi, Antonino La Magna and Alessandra Alberti.

Journal: Journal of Materials Chemistry A, 5, 25529-25538. [I.F. 2018 = 10.7]

Year: 2017

Title: *Revealing a discontinuity in the degradation behaviour of CH₃NH₃PbI₃ during thermal operation.*

Authors: Alessandra Alberti, Ioannis Deretzis, Giovanni Mannino, Emanuele Smecca, **Salvatore Sanzaro**, Youhei Numata, Tsutomu Miyasaka and Antonino La Magna.

Journal: The Journal of Physical Chemistry C, 121, 13577-13585. [I.F. 2018 = 4.3]

Year: 2017.

Title: *First evidence of CH₃NH₃PbI₃ optical constant improvement in N₂ environment at 40-80°C.*

Authors: Giovanni Mannino, Alessandra Alberti, Ioannis Deretzis, Emanuele Smecca, **Salvatore Sanzaro**, Youhei Numata, Tsutomu Miyasaka and Antonino La Magna.

Journal: The Journal of Physical Chemistry C, 121, 7703-7710. [I.F. 2018 = 4.3]

Year: 2017.

Title: *Multi-Scale-Porosity TiO₂ scaffolds grown by innovative sputtering methods for high throughput hybrid photovoltaics.*

Authors: **Salvatore Sanzaro**, Emanuele Smecca, Giovanni Mannino, Corrado Bongiorno, Giovanna Pellegrino, Fortunato Neri, Graziella Malandrino, Maria Rita Catalano, Guglielmo Guido Condorelli, Rosabianca Iacobellis, Luisa De Marco, Corrado Spinella, Antonino La Magna and Alessandra Alberti.

Journal: Scientific Reports 2016, 9, 39509. [I.F. 2018 = 4.5]

Year: 2016.

Title: *Controlled Al³⁺ Incorporation in the ZnO Lattice at 188°C by Soft Reactive Co-Sputtering for Transparent Conductive Oxides.*

Authors: **Salvatore Sanzaro**, Antonino La Magna, Emanuele Smecca, Giovanni Mannino, Giovanna Pellegrino, Enza Fazio, Fortunato Neri and Alessandra Alberti.

Journal: Energies 2016, 9, 433-446. [I.F. 2018 = 2.7]

Year: 2016.

Title: *Low temperature sputtered TiO₂ nano sheaths on electrospun PES fibers as high porosity photoactive material.*

Authors: A. Alberti, C. Bongiorno, G. Pellegrino, **S. Sanzaro**, E. Smecca, G. G. Condorelli, A. E. Giuffrida, G. Cicala, A. Latteri, G. Ognibene, A. Cassano, A. Figoli, C. Spinella and A. La Magna.

Journal: RSC Advances, 5, 73444–73450. [I.F. 2018 = 3.0]

Year: 2015.

Proceedings

Title: *Structural and Optical Behaviour of MAPbI₃ Layers in Nitrogen and Humid Air*

Authors: A. Alberti, G. Mannino, I. Deretzis, E. Smecca, **S. Sanzaro**, A. La Magna Y. Numata and T. Miyasaka.

Conference: IEEE RTSI 2018 4th International Forum on Research and Technologies for Society and Industry.

Year: 2018.

Chapter on books

Title: *Spongy TiO₂ gig-lox scaffold for Dye Sensitized Solar Cells and Perovskite Solar Cells.*

Authors: **S. Sanzaro**, A. Alberti, E. Fazio, E. Smecca, G. Mannino, G. Malandrino, A. La Magna and F. Neri.

Journal: Activity Report 2017 - Dottorato di Ricerca in Fisica, Università di Messina – ISSN 2838-5889.

Year: 2017.

Title: *New growth methodology to produce mesoporous TiO₂ scaffolds for Dye Sensitized Solar Cells.*

Authors: **S. Sanzaro**, A. Alberti, E. Fazio, E. Smecca, G. Mannino, G. Malandrino, A. La Magna and F. Neri.

Journal: Activity Report 2016 - Dottorato di Ricerca in Fisica, Università di Messina – ISSN 2838-5889.

Year: 2016.

Title: *Dye-Sensitized Solar Cells: ZnO:Al by reactive co-sputtering in co-focal geometry.*

Authors: **S. Sanzaro**, A. La Magna, E. Smecca, G. Mannino, G. Pellegrino, E. Fazio, F. Neri and A. Alberti.

Journal: Activity Report 2015 - Dottorato di Ricerca in Fisica, Università di Messina – ISSN 2838-5889.

Year: 2015.

Title: *Deposition of ZnO:Al/TiO₂ bi-layers at low temperature by reactive sputtering for application as photoanodes in Dye Sensitized Solar Cells.*

Authors: **S. Sanzaro**, G. Pellegrino, E. Smecca, G. Malandrino, R. Catalano, A. La Magna, A. Alberti.

Journal: Activity Report 2014 - Dottorato di Ricerca in Fisica, Università di Messina – ISSN 2838-5889.

Year: 2014.

Patent

Title: *MOX-BASED GAS SENSOR AND MANUFACTURING METHOD THEREOF*

Authors: Alessandra Alberti, Lucio Renna, Leonardo Gervasi, Emanuele Smecca, **Salvatore Sanzaro**, Clelia Carmen Galati, Antonello Santangelo, Antonino La Magna.

Publication Number: US 2019/0128830 A1

Publication Data: 2 Maggio 2019

Invitation

Abstract: *Structural characterization of TiO₂ gig-lox sponges by Coherent X-ray Diffraction Imaging. (Oral)*

Authors: **S. Sanzaro**, F. Zontone, D. Grosso, T. Bottein, F. Neri, E. Smecca, G. Mannino, C. Bongiorno, C. Spinella, A. La Magna, A. Alberti.

Conference: Coherence Workshop 2019.

Grenoble, France

09-13 September 2019

Conferences

Abstract: *Bimodal porosity and stability of a TiO₂ gig-lox sponge infiltrated with MAPbI₃ for Perovskite Solar Cells. (Oral)*

Authors: **S. Sanzaro**, F. Zontone, D. Grosso, T. Bottein, F. Neri, E. Smecca, G. Mannino, C. Bongiorno, C. Spinella, A. La Magna, A. Alberti.

Conference: Innovative Materials for Energy 2019.

Messina, Italy

20-22 November 2019

Abstract: *Bimodal porosity and stability of a TiO₂ gig-lox sponge infiltrated with MAPbI₃ for Perovskite Solar Cells. (Oral)*

Authors: **S. Sanzaro**, F. Zontone, D. Grosso, T. Bottein, F. Neri, E. Smecca, G. Mannino, C. Bongiorno, C. Spinella, A. La Magna, A. Alberti.

Conference: FisMat 2019.

Catania, Italy

30 September - 4 October 2019

Abstract: *Structural characterization of TiO₂ gig-lox sponges by Coherent X-ray Diffraction Imaging. (Oral)*

Authors: **S. Sanzaro**, F. Zontone, D. Grosso, T. Bottein, F. Neri, E. Smecca, G. Mannino, C. Bongiorno, C. Spinella, A. La Magna, A. Alberti.

Conference: Coherence Workshop 2019.

Grenoble, France

09-13 September 2019

Abstract: *Structural and Optical Behaviour of MAPbI₃ Layers in Nitrogen and Humid Air. (Oral)*

Authors: **E. Smecca**, G. Mannino, I. Deretzis, **S. Sanzaro**, A. La Magna, Y. Numata, T. Miyasaka, A. Alberti.

Conference: IPEROP 2019.

Kyoto, Japan

27-29 January 2019

Abstract: *Structural characterization of TiO₂ gig-lox sponges by Coherent X-ray Diffraction Imaging. (Oral)*

Authors: **Salvatore Sanzaro**, Fortunato Neri, Emanuele Smecca, Giovanni Mannino, Corrado Bongiorno, **Federico Zontone**, David Grosso, Thomas Bottein, Antonino La Magna and Alessandra Alberti.

Conference: Materials.it 2018.

Bologna, Italy

22-26 October 2018

Abstract: *Innovative Spongy TiO₂ layers for gas detection at low working temperature. (Oral)*

Authors: A. Alberti, L. Renna, **S. Sanzaro**, **E. Smecca**, G. Mannino, C. Bongiorno, C. C. Galati, L. Gervasi, A. Santangelo, A. La Magna.

Conference: E-MRS Fall Meeting 2018.

Warsaw, Poland

17-20 September 2018

Abstract: *Electrical properties of Al₂O₃ thin films deposited on 4H-SiC by reactive ion sputtering. (Oral)*

Authors: **P. Fiorenza**, M. Vivona, S. Di Franco, **S. Sanzaro**, E. Smecca, A. Alberti, M. Saggio, F. Roccaforte.

Conference: E-MRS Fall Meeting 2018.

Warsaw, Poland

17-20 September 2018

Abstract: *Innovative spongy TiO₂ layers for sensitivity gas detection at low working temperature. (Oral)*

Authors: **Alessandra Alberti**, Lucio Renna, **Salvatore Sanzaro**, Emanuele Smecca, Giovanni Mannino, Corrado Bongiorno, Clelia Galati, Leonardo Gervasi, Antonello Santangelo and Antonino La Magna.

Conference: 4° Convegno Nazionale Sensori – CNS 2018.

Catania, Italy

21-23 February 2018

Abstract: *Full-frame use of up-scalable spongy TiO₂ layer for deep dye chemisorption. (Oral)*

Authors: **Salvatore Sanzaro**, Enza Fazio, Fortunato Neri, Emanuele Smecca, Giovanni Mannino, Rosaria Anna Puglisi, Antonino La Magna and Alessandra Alberti.

Conference: 103° Congresso Nazionale della Società Italiana di Fisica.

Trento, Italy

11-15 September 2017

Abstract: *Demonstration of the order-disorder character of the $\text{CH}_3\text{NH}_3\text{PbI}_3$ polymorphic transition and its implications on the lattice stability. (Oral)*

Authors: Alessandra Alberti, Ioannis Deretzis, Giovanni Mannino, Emanuele Smecca, **Salvatore Sanzaro**, Corrado Bongiorno, Corrado Spinella, Youhei Numata, Tsutomu Miyasaka and Antonino La Magna.

Conference: Materials.it 2016.

Aci Castello – Catania, Italy

12-16 December 2016

Abstract: *Morphological and optical modification in $\text{CH}_3\text{NH}_3\text{PbI}_3$ planar layers at room temperature in air ambient. (Oral)*

Authors: Emanuele Smecca, Ioannis Deretzis, **Salvatore Sanzaro**, Simona Boninelli, Giovanni Mannino, Corrado Bongiorno, Tsutomu Miyasaka, Antonino La Magna and Alessandra Alberti.

Conference: Materials.it 2016.

Aci Castello – Catania, Italy

12-16 December 2016

Abstract: *Dye sensitized mesoporous thick TiO_2 layers deposited by grazing incidence reactive sputtering methods assisted by local oxidation. (Oral)*

Authors: **Salvatore Sanzaro**, Emanuele Smecca, Giovanna Pellegrino, Corrado Bongiorno, Fortunato Neri, Graziella Malandrino, Maria Rita Catalano, Luisa De Marco, Rosabianca Iacobellis, Giovanni Mannino, Antonino La Magna and Alessandra Alberti.

Conference: 6th International Symposium on Transparent Conductive Materials (TCM).

Platanias – Chania, Crete, Greece

09-13 October 2016

Abstract: *Multi-Scale-Porosity TiO_2 Platforms Grown by Grazing Sputtering Methods Assisted by Local Oxidation for Multipurpose Applications. (Oral)*

Authors: **S. Sanzaro**, E. Smecca, G. Pellegrino, C. Bongiorno, F. Neri, G. Malandrino, M.R. Catalano, L. De Marco, R. Iacobellis, G. Mannino, A. La Magna and A. Alberti.

Conference: NanoSEA 2016

Giardini Naxos - Messina, Italy

03-08 July 2016

Abstract: *Deposition of ZnO:Al/TiO_2 bi-layers at low temperature by reactive sputtering for applications as photoanodes in Dye Sensitized Solar Cells. (Poster)*

Authors: **S. Sanzaro**, G. Pellegrino, E. Smecca, G. Malandrino, M.R. Catalano, E. Fazio, F. Neri, A. La Magna, A. Alberti.

Conference: E-MRS Spring Meeting 2015

Lille, France

11-15 May 2015

Abstract: *Sequential deposition of ZnO:Al/TiO_2 films by reactive sputtering for photoanodes in Dye Sensitized Solar Cells preparation. (Poster)*

Authors: **S. Sanzaro**, E. Smecca, G. Pellegrino, A. La Magna, A. Alberti.

Conference: 5th International Symposium on Transparent Conductive Materials (TCM).

Platanias – Chania, Crete, Greece

12-17 October 2014

I declare that the information contained in this CV is accurate and truthful, according to art. 46 and 47 D.P.R. n. 445/2000.

I authorize the processing of my personal data, including sensitive ones, for the purposes and for the effects of art. 23 - Privacy Law of the Italian Legislative Decree n. 196/03 for the purposes of this notice of application.

25 March 2020

Salvatore Sanzaro