

CURRICULUM VITAE

EUROPEAN FORMAT

PERSONAL INFORMATION

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| Name, Surname | EMANUELE SMECCA |
| Address | ██████████ Catania, Italy |
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| Fax | |
| E-mail | esmecca82@gmail.com ; emanuele.smecca@imm.cnr.it |
| Nationality | Italy |
| Place and date of Birth | Gela (CL), Italy 23 October 1982 |

WORK EXPERIENCE

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| • Dates | 01/12/2017 -Nowdays |
| Name & Address Employer | National Research Council (CNR); Institute for Microelectronics and Microsystem (IMM) Zona Industriale VIII Strada 95121 Catania |
| Position Held | Researcher III level |
| Main activities and responsibility | Synthesis and characterization of hybrid perovskites material for photovoltaic application. Sputtering Deposition of Ti, Zn, Ni oxides for power devices and energy. |
| • Dates | 09/01/2014 –05/31/2017 |
| Name & Address Employer | National Research Council (CNR); Institute for Microelectronics and Microsystem (IMM) Zona Industriale VIII Strada 95121 Catania |
| Position Held | Post Doc Position |
| Main activities and responsibility | Synthesis of nanostructured oxides by DC-Reactive sputtering deposition and their characterization by X-ray diffraction (XRD) e X-ray photoelectron spectroscopy (XPS) |
| • Dates | 11/15/2013 -07/31/2014 |
| Name & Address Employer | National Research Council (CNR); Institute for Microelectronics and Microsystem (IMM). Zona Industriale VIII Strada 95121 Catania |
| Position Held | Researcher Contributor |
| Main activities and responsibility | Synthesis by DC-reactive sputtering deposition of nitride and oxides on platic substrates and their Characterization by X-Ray diffraction technique. |
| • Dates | 11/15/2010-11/15/2013 |
| Name & Address Employer | National Interuniversity Consortium of Materials Science and Technology Via G. Giusti, 9 - 50121 Florence - ITALY |
| Position Held | Researcher Contributor |
| Main activities and responsibility | Nanostructured oxides functionalization by molecular system for multifunctional materials delopment. |
| • Dates | 15/02/2010-15/05/2010 |
| • Name & Address Employer | Department of Chemistry Sciences, University of Catania – V.le A. Doria 6 95125 Catania Italy |
| • Position Held | Researcher Contributor |
| • Main activities and responsibility | Grafting of phosphonic terminated organic molecules on oxides surface an their characterization by X-Ray Photoelectron Spectroscopy |
| • Dates | 01/05/2009-31/10/2009 |
| • Name & Address Employer | Department of Chemistry Sciences, University of Catania – V.le A. Doria 6 95125 Catania Italy |
| • Position Held | Researcher Contributor |
| • Main activities and responsibility | Grafting of phosphonic terminated organic molecules on SiO2 surface |

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| <ul style="list-style-type: none"> • Dates • Name & Address Employer • Position Held • Main activities and responsibility | <p>10/09/2006-10/09/2007</p> <p>National Interuniversity Consortium of Materials Science and Technology Via G. Giusti, 9 - 50121 Florence – ITALY</p> <p>Researcher Contributor</p> <p>Grafting of organic molecules on Inorganic surface.</p> |
| EDUCATION AND TRAINING | |
| <p>Dates</p> <p>Name and type of organisation providing education and training</p> <p>Principal subjects/occupational skills covered</p> <p>Title of qualification awarded Level in national or international classification</p> | <p>2005-2008</p> <p>Department of Chemistry Sciences, University of Catania – V.le A. Doria 6 95125 Catania Italy</p> <p>Materials Physical Chemistry, Materials Inorganic Chemistry.</p> <p>Master Degree in Chemistry (107/110) presenting the experimental Thesis "Trattamenti chimici di strumenti in NiTi per applicazioni endodontiche".</p> <p>Master Degree</p> |
| <p>Dates</p> <p>Name and type of organization providing education and training</p> <p>Title of qualification awarded</p> <p>Principal subjects/occupational skills covered</p> <p>Level in national or international classification</p> | <p>2001-2005</p> <p>Department of Chemistry Sciences, University of Catania – V.le A. Doria 6 95125 Catania Italy</p> <p>Degree in Industrial Chemistry (107/110) presenting the experimental Thesis "Sintesi e preparazione di sistemi ibridi organici-inorganici su Si(100)".</p> <p>Chemical Plants, Inorganic Chemistry, Organic Chemistry</p> <p>Bachelore Degree</p> |
| PERSONAL SKILLS AND COMPETENCES | |
| <p>MOTHER TOUNGE</p> <p>OTHER TOUNGES</p> <p>*European Level</p> <ul style="list-style-type: none"> • Reading • Writing • Capacità di espressione Oral | <p>Italiano</p> <p>English</p> <p>ADVANCED LEVEL(C1)</p> <p>B1 LEVEL</p> <p>B1 LEVEL</p> <p>(*)COMMON EUROPEAN FRAMEWORK OF REFERENCE FOR LANGUAGES</p> <p>I can communicate and respond to specific requests of the client and / or reference users thanks to the activities carried out in the various professional experiences previously mentioned. I can organize myself and other people on working together and I am able to reach a good affinity with other people not only during the working hours but also outside.</p> |
| SOCIAL SKILLS AND COMPETENCES | |
| TECHNICAL SKILLS AND COMPETENCES | |
| COMPUTER SKILLS AND COMPETENCES | |
| | <p>Deep knowledge and experience of the MOCVD and Sputtering Deposition techniques. Knowledge of the techniques of Scanning Electronic Microscopy (SEM), X-ray diffraction (XRD), Attenuated Total Reflection Spectroscopy (ATR-FTIR), X-ray Photoelectron Spectroscopy (XPS), UV-Vis Spectroscopy acquired in the aforementioned work experiences and thesis work.</p> <p>I can use the various applications of the Office package, especially Excel, Word and Powerpoint, which I mostly use for the various activities related to my work experience and university. Knowledge and use of various browsers for browsing the Internet and for any multimedia research on the web. Knowledge of various scientific programs such as Origin, XPSpeak, etc.</p> |

SCIENTIFIC CAREER INFORMATION

H-INDEX 18 Web of Science database
 21 Google Scholar database.
 19 Scopus database

CITATION 1184 (Web of Science)
 1498 (Google Scholar)
 1234 (Scopus)

WEB OF SCIENCE ID GSN-7501-2022
RESEARCH GATE URL https://www.researchgate.net/profile/Emanuele_Smecca

ORCID <https://orcid.org/0000-0002-8946-8640>

PROJECTS **PLAST_Ics.** Elettronica su Plastica per Sistemi “Smart disposable” (Electronics on Plastics for “Smart disposable” Systems) funded by MIUR (Ministero Istruzione Università e Ricerca) to the Distretto Tecnologico Sicilia Micro e Nano Sistemi by means of the Italian Program PON02 00355 PON02_00355_3416798.

Best4U “Tecnologia per celle solari bifacciali ad alta Efficienza a 4 terminali per utility scale,” called BEST-4U, financed by the Italian Ministry MIUR (CUP B88D1900016000)

Bilateral project on Perovskite Solar Cells “Design of organo-halide perovskite light absorbers of high stability and durability through atomistic engineering of the lattice structure “ (CUP B56C18001070005), co-founded by CNR (Italy) and JSPS (Japan)

Mission Innovation Grant Agreement between the Italian Ministry of Ecological Transition and ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ref. agreement: 21A03302 GU n.133 del 5-6-2021), CUP B82C21001820001

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

Signature