



Marco Cavallini

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Address: Via Siracusa 43, 35142, Padova, Italy (Home)

WORK EXPERIENCE

09/2020 – 12/2022 Venice, Italy

PHYSICS TEACHER IN HIGH SCHOOL MINISTRY OF EDUCATION

05/2019 – 08/2019 Padova, Italy

CHEMISTRY LABORATORY TECHNICIAN ECAMRICERT

Chemical characterization of different Nanomaterials and medical device

Address Padova, Italy

05/2017 – 06/2018 Verona, Italy

UNIVERSITY RESEARCH ASSISTANT VERONA UNIVERSITY, ECOR INTERNATIONAL

High Tech Nano-Brazing (New methods of brazing ceramic metal for thin film deposition)

Supervisor: Prof A.Romeo

- Ceramic Metallization with different PVD techniques

Address Verona, Italy

06/2016

UNIVERSITY RESEARCH ASSISTANT CA'FOSCARI UNIVERSITY

Synthesis and characterization of hydrophilic nanoparticles of metallic sulfur Cu_{2-x}S

Supervisor: Prof P.Canton

- Synthesis in water
- SEM sample preparation and image analysis

Address Venice, Italy

06/2013

UNIVERSITY RESEARCH ASSISTANT VENETO NANOTECH

Synthesis and characterization of YAG doped with rare earth to white LED

Supervisor: Prof E.Trave, Dott F.Enrichi

- PL/PLE spectroscopy analysis
- Life-time measurement with nanoLED
- XRD sample preparation and analysis with Rietveld methods

Address Venezia, Italy

EDUCATION AND TRAINING

01/2023 – 12/2023 Faenza, Italy

MASTER IN COMPOSITE MATERIALS Bologna University

Address Faenza, Italy

01/2019 – 01/2020 Bologna, Italy

MASTER COURSE IN POLYMERIC MATERIALS AND PRODUCTS FOR THE BIOMEDICAL SECTOR Bologna University

Address Bologna, Italy | **Field of study** Materials (glass, paper, plastic and wood) | **Level in EQF** EQF level 8

07/2016 Venice, Italy

MASTER DEGREE IN SCIENCE AND TECHNOLOGY OF BIO AND NANOMATERIALS Ca'Foscari University

- Theoretical activities and laboratories to preparation and characterization of bio- and nano-materials.

- Chemical-physical characteristics, properties, and preparation methods of nanostructured materials, as well as their applications, have been investigated

Address Venice, Italy | **Level in EQF** EQF level 7

07/2013 Venezia, Italy

BACHELOR IN MATERIAL SCIENCE Ca'Foscari University

- Theoretical activities and laboratories for preparation and characterization of materials
- Chemical-physical characteristics, properties, and preparation methods of materials, as well as their applications, have been investigated

Address Venezia, Italy | **Level in EQF** EQF level 6

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Google Drive | Skype | LinkedIn | Microsoft Office | OriginLab | ProLab | LaTeX (Intermediary) | Matlab (Basic)

● ADDITIONAL INFORMATION

ORGANISATIONAL SKILLS

Organisational skills

- Planification and time management, result orientation, determination, analysis and synthesis skills, gathering and elaboration of information, make decision skill, adaptability and flexibility, creativity, problem-solving.
- good organisational skills gained as Scout leader

JOB-RELATED SKILLS

Job-related skills

- Chemistry/Engineering skills: synthesis and characterization of different chemical compounds.
- Electrospinning of different polymeric compounds for bio-active matrix
- Physical vacuum deposition technique: magnetron RF sputtering, pulsed electron deposition PED, thermal vapour deposition
- Analysis Technique: Independent user with data-analysis of UV-vis spectroscopy, DLS, PLE and PL spectroscopy, FT-IR spectroscopy, TLC, Lifetime measurements with nano-led, DSC, traction test, hardness test, AFM microscopy and analysis, analysis of SEM and TEM images, analysis of XRD diffraction pattern with Rietveld technique

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills self-control and stress management, ability to handle emergencies, relationship with coworker, teamwork, verbal communication/ negotiation developed during my service how Scout leader

PUBLICATIONS

Publications

[Artegiani, Elisa](#); [Leoncini, Mauro](#); Barbato, Marco; Meneghini, Matteo; Meneghesso, Gaudenzio; [Cavallini, Marco](#); [Romeo, Alessandro](#), Analysis of magnesium zinc oxide layers for high efficiency CdTe devices «Thin Solid Films», vol. 672, 2019, pp. 22-25

[Leoncini, Mauro](#); [Artegiani, Elisa](#); Lozzi, Luca; Barbato, Marco; Meneghini, Matteo; Meneghesso, Gaudenzio; [Cavallini, Marco](#); [Romeo, Alessandro](#), Difluorochloromethane treated thin CdS buffer layers for improved CdTe solar cells «Thin Solid Films», vol. 672, 2019, pp. 7-13

DRIVING LICENCE

Driving Licence: A

Driving Licence: B

HOBBIES AND INTERESTS

Hiking, Treking, Motorbyke

VOLUNTEERING

2007 – 2019

Scout Leader with Wood badge