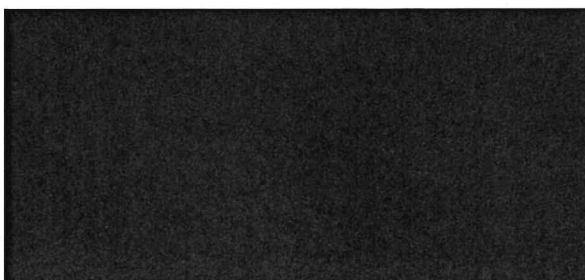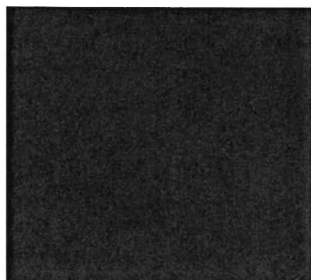**PERSONAL INFORMATION**   Marcello Condorelli

JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR
PERSONAL STATEMENT

International Ph.D. in Chemical Science   from the University of Catania
Master's degree in Materials Chemistry from the University of Catania.
Bachelor's degree in Chemistry from the University of Catania
PhD research in chemical science
Academic research experience in bio-chemical-physical, material and Plasmonic research

WORK EXPERIENCE

11/2016- 12/2019

International PhD in Chemical Sciences
University of Catania, Department of Chemical Sciences

- Laser processes to produce nanostructured systems
- Photocatalysis processes
- Plasmonic sensing studies
- Plasmonic solar cell studies
- Raman, SEM, UV-VIS, AFM
- Production of nanostructured films

Business or sector : **Material and Chemical-Physical Research**

12/2015 – 08/2016   **Traineeship as a researcher**

University of Catania, Department of Chemistry

- Research activities in biosensing: Raman confocal Spectroscopy, SERS, Laser ablation in solution (PLAL), Atomic Force Microscopy (AFM), Dynamic Light Scattering (DLS) UV-VIS spectroscopy.
- Sinthesys of nanostructured materials, characterizations using the above techniques.

Activity or sector: **Bio-chemical-physical research.**

07/2013 – 10/2013   **Traineeship as a researcher**

University of Catania, Department of Chemistry

- Research activities: production of MLV, Fluorescence, UV-VIS

Activity or sector: **Bio-chemical-physical research.**

05/2018 – 11/2018   Guest researcher at Universoty of Duisburg-Essen, Germany

University of Dusiburg-Essen, faculty of Technical Chemistry.

- Laser processes to produce nanostructured systems
- Laser processes to modify and engineering Nanomaterials
- Raman, SEM, UV-VIS, AFM
- Catalytic Study
- Data treatment
- Statistical study

Activity or sector: **Materials engineering, Physical-chemistry**

EDUCATION AND TRAINING

2013-2016   Master degree in Materials Chemistry (LM54)   Level QEQ 7

University of study of Catania.

- METALLIC CHEMISTRY
- PHYSICAL CHEMISTRY OF MATERIALS II
- PHYSICAL CHEMISTRY OF BIOLOGICAL SYSTEMS
- INORGANIC CHEMISTRY OF MATERIALS I
- SUPRAMOLECULAR CHEMISTRY
- MATERIALS FOR CATALYSIS
- TEACHING LABORATORIES
- Raman characterization techniques, SERS, AFM, Potential Z, synthesis of nanostructured materials

2008-2013   Bachelor Degree in Chemistry-Class n. 21   Level QEQ 6

University of study of Catania

- ANALYTICAL CHEMISTRY
- GENERAL AND INORGANIC CHEMISTRY
- PHYSICS
- INFORMATICS
- MATH
- INSTRUMENTAL ANALYTICAL CHEMISTRY
- PHYSICAL CHEMISTRY
- INORGANIC CHEMISTRY
- ORGANIC CHEMISTRY
- BIOLOGICAL CHEMISTRY
- PHYSICAL CHEMISTRY OF SURFACES

2002-2007   Scientific Diploma   Level QEQ 4

High School of Science E. Boggiolera

- ITALIAN
- LATIN
- CHEMISTRY
- GEOLOGY
- INFORMATICS
- MATH
- PHYSICS

ECDL certificate

E. Boggiolera high school, ECDL - European Computer Driving Licence

- Office Package

PERSONAL SKILLS

Mother tongue(s)   ITALIAN

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	B2
University exam certification				

ENGLISH

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

Communication skills
- Scientifical writing (Acquired during my academic career)
- Communicative (Acquired during scientific presentations, congresses and conferences)

Organisational / managerial skills	- Leadership (co-rapporteur of trainees and responsible of a team of five people) - Problem solving (acquired during internship, and doctorate,) - Project writing (acquired during internship and doctorate)
Job-related skills	- Good mastery of characterization techniques, (Potential Z,DLS) and synthesis of nanostructured materials and characterization of biological samples acquired during PhD - Good mastery of Raman, SERS, AFM, UV-VIS, SEM techniques acquired during PhD

Digital skills

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

ECDL- European Computer Driving Licence

- Good command of office suite tools (text processor, spreadsheet, presentation software)
- Good command of programs for processing experimental data (Acquired during my internship and doctorate)

Driving licence	A1, A3, B

ADDITIONAL INFORMATION

Publications

- Condorelli, M., Scardaci, V., D'Urso, L., Puglisi, O., Fazio, E., & Compagnini, G. (2019). **Plasmon sensing and enhancement of laser prepared silver colloidal nanoplates.** *Applied Surface Science, 475*, 633-638.
- Condorelli, M., Scardaci, V., D'Urso, L., Puglisi, O., Fazio, E., & Compagnini, G. (2019). **Optical data related to Ag nanoplates utilized for plasmon sensing.** *Data in Brief, 23*, 103798.
- Compagnini, G., Condorelli, M., Fragalà, M. E., Scardaci, V., Tinnirello, I., Puglisi, O., ... & Fazio, E. (2019). **Growth Kinetics and Sensing Features of Colloidal Silver Nanoplates.** *Journal of Nanomaterials, 2019.*
- D'Urso, L., Condorelli, M., Puglisi, O., Tempra, C., Lolicato, F., Compagnini, G., & La Rosa, C. (2018). **Detection and characterization at nM concentration of oligomers formed by hIAPP, Aβ (1–40) and their equimolar mixture using SERS and MD simulations.** *Physical Chemistry Chemical Physics, 20*(31), 20588-20596.
- Messina, G. C., Sinatra, M. G., Bonanni, V., Brescia, R., Alabastri, A., Pineider, Campo G., Sangregorio C., Li Destri G., Sfuncia G., Marletta G., Condorelli M., Zaccaria R. P., De Angelis F., Compagnini G. (2016). **Tuning the composition of alloy nanoparticles through laser mixing: The role of surface plasmon resonance.** *The Journal of Physical Chemistry C, 120*(23), 12810-12818.
- La Rosa C., Condorelli M., Compagnini G., Lolicato F., Milardi D., Nu Do T., Karttunen M., Pannuzzo M., Ramamoorthy A., Fraternali F., Collu F., Rezaei H.; Strodel B.; Raudino A. **Symmetry-Breaking Transitions in the Early Steps of Proteins self-assembly.** (accepted)
- Bhunia, A., Sarkar, D., Chakraborty, I., Condorelli, M., Ghosh, B., Mass, T., ... & Subramanian, V. (2019). **Self-assembly and Neurotoxicity of Amyloid-beta (21-40) Peptide fragment: The regulatory Role of GxxxG Motifs.** *ChemMedChem.*

Projects

PhD Project : Synthesis and characterization of hybrid nano-systems for sensing and solar cell application.

PRIN 2017: 'In liquid' laser induced nanofabrication for plasmon enhanced spectroscopic phenomena. Coordinator Prof. Giuseppe Romano Compagnini

Conferences

- **Nanoparticles as probe to characterize transient oligomeric state of amyloid protein** *Marcello Condorelli et al.* Poster, Materials 2016
- **Silver Nanoplatelets : a promising dual SPR-SERS substrate for plasmonic sensing** *Marcello Condorelli et al.* Poster, Plasmonica 2017
- **Amyloid oligomers characterization by Surface-Enhanced Raman Spectroscopy at nM concentration.** *Marcello Condorelli et al.* Poster 2017
- **Sintesi e caratterizzazione di Nanoplatelets d'argento.** *Marcello Condorelli et al.* Oral Presentation SCI 2018
- **Plasmon sensitivity of silver nanoplatelets.** *Marcello Condorelli et al.* Oral presentation Sensor 2018
- **Sensing features of Silver Nanoparticles green generated and reshaped.** *Marcello Condorelli et al.* Flash presentation MEYCS 2018
- **Plasmon sensing properties of noble metal colloids prepared by ablation in water.** *Marcello Condorelli et al.* ANGEL 2018.

Seminars

Certifications   Workshop Confocal Raman, Workshop FIB, Workshop SPR

- PH.D. in Chemical Science
- Master's Degree in Material Chemistry (LM54)
- Bachelor's degree in chemistry class 21
- ECDL Certificate
- English University certification
- Partecipation at congress: SCI 2018, , SENSOR 2018, PLASMONICA 2017, International Symposium on Protein MIsfolding Desease 2017, Materials 2016

ANNEXES ————————————

CATANIA Lì 03/02/2020