

Curriculum Vitae:

PERSONAL INFORMATION :

Sawssen Slimani









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EDUCATION:

- **2011 /2012:** Baccalaureate Diploma in Experimental Sciences.
- **2013/2015:** National Fundamental Bachelor's Degree in physics-chemistry .
Institution : Faculty of Sciences of sfax , Tunisia
- **2017 / 2018:** National Research Master's Degree in Physics-Chemistry (mention: very good).
Title: Study of the structural, magnetic and electrical properties of the polycrystal [La_{0.4}Ag_{0.2}Ca_{0.4}MnO₃]: Role of phase separation
Institution: Faculty of Sciences and Technology of Sidi Bouzid, Tunisia.
- **2018/2019(Starting year):** Ph.D. student.
Title : Magnetic nanoparticles for biomedical applications.
Institution: - University of Genova, Italy.
- Faculty of Sciences of Sfax, Tunisia.

WORK EXPERIENCE:

Internship:

- **2012-2015:** Analysis laboratory.
- **2016 / 2017:** Industrial and commercial company of electrothermic and regulation SICER – COALA.

Research internship

- **2017/2018:** Research Unit Valorisation and Optimization of the Exploitation of the Resources (URVOER) , Tunisia .
Activity : -chemical synthesis of magnetic particles with solide-solide method , sol-gel method and autocombution method (perivskite AB₂O₃)
-Structural and magnetic characterization of magnetic particles using suitable softwars.
- **2018/2019:** National Research Council (CNR), Institute of Structure of Matter (ISM).
Activity : research internship in the National Research Council (ISM-CNR), Institute of Structure of matter (ISM), (Italy) under the supervision of **Prof. Davide Peddis**, working on :
-the synthesis of nanoparticles (Spinel ferrite) with:
 - coprecipitation and polyol method
 - Functionalization of nanoparticles
 - Dispersion of nanoparticles
-Magnetic characterization of nanoparticles (Working on SQUID and VSM magnetometers)

- 2019/2020 : Ph.D researcher at NM2-Lab -Consiglio Nazionale Delle Ricerche (CNR), Rome.

Scientific Activity :

I. Conferences' Communications

Oral Communications

1. Talk on "Mesosstructured silica/spinel iron Oxides nanoarchitectures: investigation of the magnetic properties", in SuperFOx2020 conference, February 10, 2020, Santa Margherita Ligure, Italy.

2. Talk on "Spinel iron oxide nanoparticles synthesized by chemical co-precipitation method: effect of reaction temperature and atmosphere", in chimica fisica conference ,July 2, 2019, Rome, Italy.

3. Talk on "Magnetic mesoporous silica nanostructures: Investigation of magnetic properties", in Joint European Magnetic Symposia , JEMS-2020 conference , 7-11 December, 2020, Lisbon, Portugal.

Invited talk

1. Invited talk on "Magnetic nanoarchitectures for controlled drugs release" in smart nanostructured materials: from molecular self-assembly to advanced applications international conference, October 3 , 2019, Rome , Italy.

2. Invited talk on "Caput Mortuum pigment: a magnetic investigation", in nanoinnovation 2020 conference in the session "Materials and Characterizations for Cultural Heritage", September 16, 2020, Rome.

Self Poster Presentation

1. Poster on "Spinel iron oxide /SiO₂ nanoarchitectures for drug delivery: investigation of the magnetic properties", in Italian School of magnetism , February 4, 2020, Rome, Italy.

2. Poster on "Designing Spinel Ferrite Nanoparticles by co-precipitation method", in young researcher meeting, June 17, 2019, Rome , Italy.

3. Poster "Colossal magnetoresistance caused by the phase separation at the La_{0.4}Ag_{0.2}Ca_{0.2}MnO₃ compound", on March 2019 in PhD students' days in Physics ,Sfax, Tunisia.

Co-author in Poster Presentation

1. Poster on "Effect of molecular coating on magnetic properties of spinel ferrite nanoparticles", in Italian School of magnetism, February 5 ,2020, Rome, Italy.

2. Poster on "A New Approach in Fatty Acid Capped Spinel Ferrites Synthesis and Characterization" in young researcher meeting, June 18, 2019, Rome , Italy.

II. Scientific events organization

1. Member of the organizing committee of the "V-Italian School on Magnetism", February 3-7, 2020, Rome, Italy.

<https://sites.google.com/view/aimagn-school-2020/committees>

III. National and International Schools

1. International V-Italian School on Magnetism, February 3-7, 2020, Rome, Italy.

2. International online Summer School on "Electric and Magnetic Field-assisted Processing of Inorganic Materials", September 14-16, 2020.

IV. Seminars

1. Seminar on “Stimuli-responsive polymers for functional applications.”, given by Prof. Veronica Ambrogi (Department of Chemical, Materials and Production Engineering (D.I.C.Ma.P.I.), University of Naples Federico II), December 15, 2020.
2. Seminar on “Electrospun nanofibrous membranes for biomedical applications”, given by Dr. Andrea Dodero(University of Genova), December 03, 2020.
3. Seminar on “Engineering efficient materials through non-covalent interactions: halogen and hydrogen bond at work”, given by Prof. Marco Saccone (Department of Engineerin, University of Palermo), November 13, 2020.

V. Member in Projects

1. MineHeritage project. Historical Mining – tracing and learning from ancient materials and mining techn
Proposal Number: 18111

VI. Scientific Publications

1. Alessandra Scano, Edmond Magner, Martina Pilloni, Davide Peddis, Franca Sini, Sawssen Slimani, and Guido Ennas, “High Energy Ball Milling and Liquid Crystal Template Method:a successful combination for the preparation of magnetic nano-platforms”, Journal of Nanoscience and Nanotechnology (JNN),(accepted in 2020 and will be published in 2021).

2. A. Talone, L. Ruggiero, S. Slimani, P. Imperatori, G. Barucca, M.A. Ricci, A. Sodo, D. Peddis, “Magnetic mesoporous silica nanostructures: Investigation of magnetic properties”,Journal of Nanotechnology,2020.

<https://iopscience.iop.org/article/10.1088/1361-6528/abac7c/meta>

3. Elena Castagnotto, Federico Locardi, Sawssen Slimani, Davide Peddis, Laura Gaggero, Maurizio Ferretti, “Characterization of the Caput Mortuum purple hematite pigment and synthesis of a modern analogue”, Journal of Dyes and Pigments ,2020.

<https://doi.org/10.1016/j.dyepig.2020.108881>

4. M.Smari; R.Hamdi; S.Slimani, A.Bajorek; D.Peddis; I.Walha,; U.Koneva; E.Dhahri, “Enhancement of the magneto-transport behavior in phase-separated LaAgCaMnO3 polycrystalline: unraveling the Role of multi-double exchange mechanism” Journal of Physical Chemistry C, 2020.

<https://doi.org/10.1021/acs.jpcc.0c06661>

5. Anuvansh Sharma, Jan Willem Foppen, Abhishek Banerjee, Sawssen Slimani, Nirmalya Bachhar, Davide Peddis and Sulalit Bandyopadhyay, “Magnetic Nanoparticles to Unique DNA Tracers – Effect of Functionalization on Physico-Chemical Properties.”, Journal of Nanoscale Research Letters,2020 (Status: In Review).

<https://doi.org/10.21203/rs.3.rs-84463/v1>

Skills:

- Languages: -Fluent in English
 - Fluent in French
 - Fluent in Arabic
 - Italian
- Computer skills: OriginLab pro,full poof ,match software.,vista, diamond.,imageJ