

Elli Georgopoulou-Kotsaki

Personal Information

Date and Place of Birth: 29/11/1993, Athens, Greece

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Education

- 04/02/2019-Today **PhD Student**, Section of Condensed Matter Physics, Department of Physics, School of Science, National and Kapodistrian University of Athens (NCUA) in collaboration with Epitaxy and Surface Science Laboratory (ESSL) of Institute of Nanoscience and Nanotechnology of NCSR “Demokritos”, in the framework of Horizon 2020 “SKYTOP” project.
- 10/2016-13/07/2018 **Postgraduate Degree in “Materials Physics”**, Section of Condensed Matter Physics, Department of Physics, School of Science, NCUA.
- 10/2011-24/02/2016 **Degree in Physics**, Department of Physics, School of Science, University of Patras.
- 9/2008-6/2011 2° Model General Lyceum of Athens

Publications in peer reviewed journals

E. Georgopoulou-Kotsaki, M. Giannouri, E. Syskakis, “*Synthesis of magnetocaloric $Mn_{5-x}Fe_xSi_3$ ($2.5 \leq x \leq 4.0$) compounds and the influence of various sintering atmospheres on the magnetic and electrical properties*”, Journal of Solid State Chemistry, Volume 296 (121980), 2021.

Participation in Conferences/Seminars

- “Study of magnetic properties and structural characterization in bulk compounds Mn-Fe-Si and an introduction to 2D van der Waals compounds Fe-Ge-Te”, Research Day of PhD Students, 19/02/2020, Section of Condensed Matter Physics, Department of Physics, School of Science, NCUA, oral presentation.
- “Investigation of magnetic and electrical properties of magnetocaloric compounds $Mn_{5-x}Fe_xSi_3$ ”, Research Day of PhD Students, 19/02/2020, Section of Condensed Matter Physics, Department of Physics, School of Science, NCUA, oral presentation.
- **E. Georgopoulou-Kotsaki**, N. Biniskos, E. Syskakis “Investigation of Magnetic and Electrical Properties of Magnetocaloric $Mn_{5-x}Fe_xSi_3$ ($2.5 \leq x \leq 4.0$) Compounds”, XXXIV Panhellenic Conference on Solid State Physics and Materials Science, Patras, 11-14 September 2019, poster presentation.

Teaching activities

- Co-supervision of BSc thesis during the experimental and the writing process, 2020-2021, 2019-2020.
- Demonstration of Condensed Matter experiments, NCUA.

Languages

- English C1- Advanced Level
- French B1 delf

Computer

- Microsoft Office
- Microcal Origin
- Jana 2006, Le Bail method
- Full- Prof Suite, Rietveld method

Experimental Education

- Growth of materials:
 - Solid State Reaction (SSR)

- Molecular Beam Epitaxy (MBE)
- Characterization of materials:
 - X-ray Diffraction (XRD)
 - Scanning Electron Microscopy (SEM)/ Energy-Dispersive X-ray Spectroscopy (EDS)
 - Transmission Electron Microscopy (TEM)
 - Reflection high-energy electron diffraction (RHEED)
 - X-ray Photoelectron Spectroscopy (XPS)
- Magnetic and Electrical characterization of materials:
 - ac-magnetic susceptibility measurements
 - Kerr microscopy
 - electrical resistance measurements
- Characterization of nonlinear optical response of materials