# Panagiota – Patapia Soukouli

## Personal Info


Aristotelous 55, Korinthos, Greece
+30 6944834624
p.p.soukouli@gmail.com


## Languages

Greek

English

## WORK EXPERIENCE

### Epitaxy and Surface Science Lab, NSCR Demokritos

November 2024 – Present

*Development and investigation of the physical properties of two-dimensional materials derived from precursors in the wurtzite phase (Part of 2D-ENGINE Project, "2D Materials of Tomorrow", Horizon Europe)*

## EDUCATION

### Ph.D. student in Physics, University of Ioannina

December 2024 – Present

### Master's degree in Advanced Materials Technologies, University of Ioannina

October 2022- July 2024

Thesis: *Metal oxide heterojunctions (IVA and IVB) for applications in photovoltaic and catalysis technologies*

### Bachelor's Degree in Physics, University of Ioannina

September 2015 – July 2022

*Thesis: Development and characterization of Sn oxide nanocomposites.*

## CONFERENCE PARTICIPATION

### Workshop: 2D Materials and Interfaces of Tomorrow

December 2025

*Poster: Catalytic growth of transferable thin SiC film on melted Si surfaces ESRF, France*

### Graphene Week 2025

September 2025

*Conference Talk: Catalytic growth of ultrathin SiC on melted Si surfaces Vicenza, Italy*

### Experimental measurements at Beamline ID10, ESRF

June 2025

*Grenoble, France*

### Workshop: Novel (2D) Materials and Their Applications

February 2025

*RWTH Aachen University, Germany*

## Skills

Organizational
Team-work oriented
Critical thinking
Responsibility
Analytical skills
Decision-making
Creativity
Reliability
Problem-solving
Motivated

## HOBBIES AND INTERESTS

Martial Arts

Reading Literature

## PUBLICATIONS

### Development of Ti-based nanocomposite oxide thin films with CuO and $Nb_2O_5$ additions suitable for catalytic applications

***Authors:*** *Agrafioti, KA and Panagiotopoulos, NT and Moularas, C and Deligiannakis, Y and Prouskas, C and Soukouli, PP and Evangelakis, GA* | ***Journal Name:*** *Thin Solid Films* | ***Volume, Issue and Pages:*** *775,139864* | ***Publisher:*** *Elsevier*
***DOI:*** *10.1016/j.tsf.2023.139864*

### Growth and Characterization of Sn and Zr-Ti-Cu Oxide Hetero-Junctions Band Aliments for Potential Photoelectric Applications

***Authors:*** *Pagonis, Ioannis and Soukouli, PP and Agrafioti, KA and Prouskas, C and Evangelakis, GA* | ***Publisher:*** *Available at SSRN 4904762*

## Technical Skills and COMPETENCES

### Nanofabrication Techniques and High Vacuum Systems

*(PVD, CVD)*

### Characterization Methods

- *XRD*
- *XPS*
- *SEM/EDX*
- *Raman*
- *Optical Microscopy*

### Electrical Characterization

### Material Synthesis and Analysis

### Transfer of 2D materials

## Computer Skills and Competences

### Operating Systems:

*MS Windows, Ubuntu*

### Office Software:

*MS Office 365*

### Programming Languages:

*Python, C, C++, Fortran*

### Scientific Software:

*OriginLab, CasaXPS, LAMMPS*