

Personal Details

Argyrou Aikaterini

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Address : I. Katsouli , Malia 70007, Heraklion Crete

Date of birth: 28/05/1993

Nationality: Greek

Marital status: Single

Education

- 10/2019 -present PhD student in Chemistry
University of Crete
- 09/2017 -09/2019 Master of Science in Material Science and Technology
University of Crete
- 09/2011 -01/2017 Bachelor in Physics
University of Crete
Grade: 7.15/10
- 2008 Certificate of Proficiency in English (C2)
University of Michigan

Experience

- 10/2019-present PhD Candidate in Ultrafast Laser Micro- and Nano-
Processing Laboratory (ULMN) of Institute of Electronic
Structure and Laser (IESL) at Foundation for Research
and Technology – Hellas (FORTH).
Vassilica Vouton, 71111 Heraklion, Greece.
<http://stratakislab.iesl.forth.gr>
- Member of scientific research subgroups of
'Nanomaterials' and 'Lasers in
Optoelectronics' at ULMN.
- 05/2018-09/2019 MSc intern in Ultrafast Laser Micro- and Nano-
Processing Laboratory (ULMN) of Institute of Electronic
Structure and Laser (IESL) at Foundation for Research
and Technology – Hellas (FORTH).
Vassilica Vouton, 71111 Heraklion, Greece.
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Member of scientific research subgroups of 'Nanomaterials' and 'Lasers in Optoelectronics' at ULMN.

Current Interests

- Synthesis of perovskite nanocrystals for gas sensing applications
- Optical and structural characterization of nanocrystals
- Synthesis and characterization of nanoparticulate films
- Elucidation of the microscopic physical mechanisms involving nanocrystal systems

Job – Related Skills

Characterization techniques:

- Scanning Electron Microscopy (SEM)-Energy Dispersive Spectroscopy (EDS) (results interpretation)
- UV-Vis spectroscopy (independent user)
- Photoluminescence (PL) measurements (independent user)
- Powder X-Ray diffraction (XRD) (independent user)
- Transient absorption spectroscopy (TAS) (results interpretation)
- RAMAN spectroscopy (results interpretation)
- Gas testing measurements (independent user)

Software:

- Microsoft Office
- LaTeX (certified, University of Piraeus)
- OriginPro2016

Languages: Greek (native), English (fluent), German (basic)

Publications

- Postgraduate MSc Thesis: “Fabrication, Properties and Applications of all – inorganic lead halide nanocrystals”, IESL-FORTH and Material Science and Technology Department, Heraklion, September 2019, Supervisors: Research Director Dr. Emmanuel Stratakis, Prof. George Kioseoglou and Prof. Maria Vamvakaki
- A. Argyrou, K. Brintakis, A. Kostopoulou, E. Gagaoudakis, G. Kiriakidis, E. Stratakis, “Ligand-free CsPbBr₃ nanocrystals as self-powered,

ultrasensitive and highly stable ozone and hydrogen sensing elements” (under preparation)

- K. Brintakis, E. Gagaoudakis, A. Kostopoulou, V. Faka, [A. Argyrou](#), V. Binas, G. Kiriakidis, E. Stratakis, “Ligand-free all-inorganic metal halide nanocubes for fast, ultra sensitive and self-powered ozone sensors, *Nanoscale Advances*, 2019, 1, 2699-2706, doi:10.1039/C9NA00219G

Conferences

- 21st Conference of postgraduate students of chemistry, Heraklion, Greece, 15-17 May 2019, [A. Argyrou](#), K. Brintakis, A. Kostopoulou, E. Stratakis “Synthesis and optical properties of all-inorganic lead halide thin films”, Poster

Additional Skills/Interests

- Driving license , categories: A1, B
- Tutoring: Providing tutoring lessons in physics and maths to secondary, high-school and undergraduate students
- Health and Fitness: Kick-boxing, cross training