

PERSONAL INFORMATION

Name : Irene Dousi

Address: 12 Zalokosta , Neo Heraklion

Telephone : 6934306903

Driving license: car (category B), motorcycle (unlimited cubic capacity)

E-mail : i.dousi@inn.demokritos.gr

STUDIES

2000 University of Crete – Department of Physics

Obtaining a Diploma in Microelectronics

1999 University of Crete – Department of Physics

Obtaining a degree in Physics

TRAINING

2026 Online Conference

Attending a webinar entitled: “Writing effective prompts in daily work”

2025 Online Conference

Attending a webinar entitled: “Applications of Productive Artificial Intelligence: Writing Effective Prompts”

2025 Chania, Crete, 4 to 8 May 2025

Participation in congress with title : "13 th International Conference on Toxic Cyanobacteria"

2023 Green Sample Preparation : The Concept and a Metric Tool to Evaluate Greenness

Certificate of attendance

2023 TOP COST Action 18225 – Chania - Crete

Training School : “Microextraction in T&O analysis: fundamentals and applications”

2022 University of Istanbul Turkey – Faculty of Aquatic Sciences

Training School “Introduction to Sensory Analysis of Water”

2022 INN-NCSR Demokritos, EYDAP SA and Water TOP COST Action 18225

Training School “AOPs for water T&O+intro to sensory and GC-MS analysis”

2022 Hellas Lab Hellenic Association of Laboratories

Seminar on the topic: "Chemical Metrology, Traceability of Measurements, Principles of Good Laboratory Practice"

2019 National Center for Scientific Research (NCSR) Demokritos

Seminar on the topic: "Artificial Intelligence and its Applications in Nanotechnology (nanoAI)"

2018 National Center for Scientific Research (NCSR) Demokritos

Microscopy Seminar in the fields of: Optical Microscopy, Electron Microscopy, Spike Microscopy and Microscopy Image Metrology.

2001 National Center for Scientific Research (NCSR) Demokritos

Certificate of Excellent Knowledge of Computer use

2000 National Center for Scientific Research (NCSR) Demokritos

First Panhellenic Conference on Microelectronics, Microsystems and Nanotechnology (MMN 2000)

1998 National Center for Scientific Research (NCSR) Demokritos

Symposium : "Microelectronics in Greece: Possibilities for Industrial Exploitation.

1998 University of Crete – Department of Physics

Advanced Physics Summer School

1997 University of Crete – Department of Physics

Advanced Physics Summer School

1996 National Center for Scientific Research (NCSR) Demokritos

Summer seminar for guidance and information on research topics in "Natural Sciences and Technology".

AREAS OF STUDY

1999 University of Crete – Department of Physics

Diploma thesis on the topic: "Processing of far-infrared GaAs / AlGaAs photodetectors for the creation of optical coupling".

1996 Foundation for Research and Technology (FORTH) University of Crete. Institute of Electronic Structure and Lasers (I.H.D.L.). Microelectronics Research Group (MRG)

- Study and characterization of photovoltaic cells
- Study and research with the molecular beam epitaxy method (MBE)
- Study and research using the photolithography method in a sterile space
- Study with the photoluminescence – photoreflectance method
- Study using the DLTS method

1996 Foundation for Research and Technology (FORTH) of the University of Crete Institute of Electronic Structure and Lasers (I.H.D.L)

Participation in the Materials Science research group. Study of the chemical analysis and strength of ceramic materials using the Mac program Macintosh Elastic

PUBLICATIONS

- **Assessment of DNA Topoisomerase I Unwinding Activity, Radical Scavenging Capacity, and Inhibition of Breast Cancer Cell Viability of *N* - alkylacridones and *N* , *N'* -dialkyl-9,9'-biacridylidenes** , *Biomolecules* 2019 , **9** , 177
Marios G. Krokidis , Zara Molphy , Eleni K. Efthimiadou , Marianna Kokoli, Smaragda -Maria Argyri , Irini Dousi , Annalisa Masi , Kyriakos Papadopoulos, Andrew Kellett and Chryssostomos Chatgialiloglu ,
- **Antioxidant and cytotoxic activities of selected salicylidene imines: experimental and computational study** , *Molecular Diversity*
Jovica Branković¹ · Marios G. Krokidis² · Irini Dousi² · Kyriakos Papadopoulos² · Zorica D. Petrović¹ · Vladimir P. Petrović¹

POSTER AT CONFERENCES

- A. Stavropoulou , E. Dousi , M. Krokidis, K. Papadopoulos, **Ability binding of hydroxylated free radicals trans - iminostilbene** , 20o Chemistry Graduate Student Conference, Department of Chemistry, University of Crete, Heraklion, 25-27 June 2018.
- M.G. Krokidis, A. Stavropoulou, E. Efthimiadou, I. Dousi, K. Papadopoulos, 19th Postgraduate program, "Medicinal Chemistry: Drug Discovery and Design", **Radical scavenging activity and antiproliferative effect of N,N'-dialkyl-9,9'-dihydroacridines**, University of Patras, Greece, 20-22 September 2018.
- Stavropoulou , I. Dousi , M. Krokidis , K. Papadopoulos, **Antioxidant activity of hydroxylated trans-iminostilbenes** , 19th Postgraduate program, "Medicinal Chemistry: Drug Discovery and Design", University of Patras , Greece, 20-22 September 2018 .
- Sevasti-Kiriaki Zervou , Irini Dousi , Triantafyllos Kaloudis , Theodoros M. Triantis , Anastasia Hiskia
Cyanobacterial toxins and peptides in Lakes Vegoritis and Great Prespa , Greece
13th International Conference on toxic cyanobacteria

EMPLOYMENT

2021 – present Institute of Nanoscience & Nanotechnology NCSR "Demokritos"

In an organic position as a special technical scientist in the laboratory of " Photocatalytic Processes and Environmental Chemistry "

2014 – 2021 Institute of Nanoscience & Nanotechnology NCSR "Demokritos"

In an organic position as a special technical scientist in the laboratory " Free radicals in life and Nanotechnology "

2011 –2013 ALL ABOUT JOB

- Communication & Trade Marketing Manager
- Secretarial Support

2010 –2011 ALL ABOUT JOB

- Supervision of distribution of advertising materials.
- Mystery shopping .
- Promotional actions
- Inventory – Recording

2008-2009 Public Vocational Training Institute of Maroussi

Educational staff for the winter semester 2008-2009 in the specialty: "Mobile telephony and telecommunications technician" and specifically in the theoretical course: "Analog Electronics"

2007-2008 Public Vocational Training Institute of Maroussi

Educational staff for the winter semester 2007-2008 in the specialty: "Telecommunications and Information Transmission Systems Technician" and specifically in the laboratory course: "Elements of Mechanical Technology of Electronic Devices"

2004-2009 Private lessons

Teaching experience to middle and high school students in Mathematics, Physics and Chemistry

2002-2004 Institute of Materials Science NCSR Demokritos

- External collaborator in the framework of a research program focusing on the design of microelectronic masks, the manufacture of microelectronic circuits and their processing - etching with an ion beam (ion machine) milling)
- Coordination of research and communication-negotiation with suppliers for the acquisition of raw materials.
- Creation, organization and equipment of the laboratory.

2000-2002 Institute of Microelectronics NCSR Demokritos

External collaborator in the framework of a program aimed at the construction and study of gas detectors.

CLUB

Union of Greek Physicists

FOREIGN LANGUAGES

- French
- English

USE OF COMPUTERS

- FORTRAN
- MS-DOS, WINDOWS
- WORD, EXCEL, ORIGIN, Microsim Eval 7.1 (PSPICE),
- MacElastic, Autocad 14, Autocad 2000, Autocad 2002 , CorelDraw