N. T. PELEKANOS

Materials Science & Technology Department, University of Crete Microelectronics Research Group
Institute of Electronic Structure and Laser/FORTH
P.O. Box 1385, 71110 Heraklion, Greece
Phone: 30-2810-394107, Fax: 30-2810-394106
email: pelekano@materials.uoc.gr

CAREER OBJECTIVE:

Research, development and education in the fields of Nanophotonics & Optoelectronics.

EDUCATION:

Ph.D. in Physics, Brown University, Providence (RI), USA, July 1991

Title of dissertation: "Exciton-phonon interaction effects in II-VI semiconductor heterostructures".

Scientific advisor: Professor A. V. Nurmikko

M.Sc. in Physics, Brown University, Providence (RI), USA, May 1987 **B.Sc.** in Physics, University of Athens, Athens, Greece, July 1985

PROFESSIONAL EXPERIENCE:

2003- today:	Professor, Materials Science & Technology Department, University of Crete, and
	Senior Researcher at the Microelectronics Research Group of the Institute of
	Electronic Structure & Laser/FORTH, Heraklion, Greece, leading research in the field
	of Semiconductor Nanotechnology with emphasis on Optoelectronic applications.

2001-2003: Senior Researcher, Microelectronics Research Group, Institute of Electronic Structure & Laser/FORTH, Heraklion, Greece, demonstrating tunable laser diodes and LEDs and studying semiconductor quantum dots.

Research Engineer (permanent position), Laboratory of Semiconductor Physics, Department of Fundamental Research on Condensed Matter, Commissariat à l'Energie Atomique, Grenoble, France, performing optical characterization of III-nitride hetero/nano-structures and experimenting on all-optical piezoelectric modulators.

1993-1994: Postdoctoral Researcher, Ultrafast Spectroscopy Group, Max-Planck-Institute for Solid State Research, Stuttgart, Germany, demonstrating an all-optical quantum well- based spatial light modulator for parallel image processing and carrying out ultrafast spectroscopy on II-VI heterostructures.

Research Engineer, Optical Interconnection Group, Centre National d'Etudes des Télécommunications, France-Telecom, Lannion, France, developing photorefractive quantum well devices for optical switching in telecommunications.

Postdoctoral Researcher, Laboratory of Semiconductor Physics, Department of Fundamental Research on Condensed Matter, Commissariat à l'Energie Atomique, Grenoble, France, studying optical properties of II-VI semiconductor heterostructures.

RESEARCH INTERESTS:

- a) Quantum dot-based high temperature sources of single and entangled photons.
- b) Polariton lasing and parametric scattering at room temperature.
- c) Next generation solar cells based on halide perovskites and III-V semiconductor nanostructures.
- d) 2D materials for optoelectronic applications.

ACHIEVEMENTS:

RESEARCH

• A total of 249 publications, including:

7 patents

56 publications in peer-reviewed journals

64 conference papers in peer-reviewed journals

2 papers in special issues

1 book chapter

119 abstracts in conference proceedings.

- About 3150 citations and a corresponding H-factor of 29.
- 18 invited talks in conferences/workshops and 15 invited talks in academic institutions.
- Coordination/participation in 24 national, 6 European, 1 industrial, and 4 bilateral research contracts, whose total estimated budget for the home institutions is over 4 million Euros.
- Supervised 5 post-docs, 10 PhD and 12 MSc theses. Currently supervising 3 PhD candidates.
- Evaluation expert for European and national research programs (Greece, France, Israel).
- Referee in various academic journals (PRL, PRB, PRAppl, APL, JAP, ACS Photonics, Sci. Rep.).
- Organized/co-organized 9 conferences/workshops.
- Participated in numerous electoral committees for professor/researcher positions.

ADMINISTRATIVE WORK

At the Department level:

- Chairman, 2007-2009.
- Vice-Chairman, 2004-2007.
- Director of undergraduate studies, 2004-2010.
- Evaluation Committee, 2012-2016.

At the University level:

- Director of Technical Council, 2017-now.
- Member of Research Committee, 2012-2014.
- Responsible for the Final Reception Protocol of the new University buildings in Voutes, 2014.
- Member of New Technologies Committee, 2016-2018.

At the Region level:

• Member of the Regional Research and Innovation Council of Crete, 2017-now.

AWARDS

- Chaire d'Excellence LANEF, funded by the French government, for a project entitled "*Nanowire Innovative Solar Cells*", 2014-2017.
- Solar Innovation 2010 Award, by the French Atomic Energy Commission for a proposal on "*III-V Nanowires for Next Generation Photovoltaics*", 2011-2013.
- Alexander von Humboldt-Stiftung fellowship, 1993-1994.
- Bourse du Ministère des Affaires Etrangères, 1991-1992.

DETAILED RECORD:

PATENTS:

7. Growth of nitride semiconductor heterostructures including Indium Aluminium Gallium Nitride alloy layers by Molecular Beam Epitaxy with RF-plasma source,

- A. Georgakilas, N. Pelekanos, E. Dimakis, FORTH, Application for Greek Patent, Ref. N. 20020100376 (9-8-2002).
- 6. Optical semiconductor device with resonant cavity tunable in wavelength, application to modulation of light intensity,
- V. Ortiz, N. T. Pelekanos, CEA/Grenoble, French Patent application Nr. 99 08783, filed July 7, 1999. Extended to the USA in June 2000, where it was granted as US 6,396,083 B1 (DoP: May 28, 2002).
- 5. Semiconductor laser with tunable gain spectrum,
- N. T. Pelekanos, V. Ortiz, G. Mula, CEA/Grenoble, French Patent application Nr. 98 12558, filed Oct. 7, 1998. Extended to USA in 1999, where it was granted as US 6,353,624 B1 (DoP: March 5, 2002).
- 4. An educational crossword game,
- J. Jorge Pelekanos, N. T. Pelekanos, U.S. Patent application, filed January 1996.
- 3. Optically-controlled light modulator device,
- N. T. Pelekanos, European Patent Application #94107158.1, filed in 1994. Extended to USA in 1995, where it was granted as US 5,698,863 (DoP: Dec.16, 1997).
- 2. Ultrafast photorefractive cell operating at 1.55 µm,
- B. Deveaud, N. T. Pelekanos, B. Lambert, France Telecom, French Patent Nr. 9313718, filed in 1993, extended in USA in 1994.
- 1. All-optical photodiffractive device based on GaAs/AlAs quantum filters,
- N. T. Pelekanos, B. Deveaud, P. Gravey, J. M. Gérard, France Telecom, French Patent Nr. 9314789, filed in 1993, extended in USA in 1994.

FUNDING:

European:

- -Participation in European contract entitled CLERMONT 4, FP7-PEOPLE-ITN-235114, "*Exciton–Polaritons in microcavities: physics and devices*" (2009-2013). FORTH budget 314,570 €.
- -Participation in European contract entitled ICARUS, FP7-PEOPLE-ITN-237900, "*Hybrid organic-inorganic nanostructures for photonics and optoelectronics*" (2009-2013). FORTH budget ~410,000€.
- -Matching Funds: I have managed 108,572 € since 2001.
- -Principal contractor and team coordinator in European contract entitled GaNano, NMP-2002-505641-1, "New Generation of GaN-based sensor arrays for nano- and pico-fluidic systems for fast and reliable biomedical testing" (2004-2006). FORTH budget 364,000€.
- -Coordination of European contract entitled QN-Laser II, IST-2001-38982, "*Quaternary nitride low-threshold laser II*" (2003). FORTH budget 68,000€.
- -Coordination of European contract entitled TUNE-Laser, IST-2000-31028, "Tunable laser diode based on the Stark effect" (2001-2002). FORTH budget 100,000€.
- -Coordination of European contract entitled QN-Laser, IST-2000-26464, "Quaternary nitride low-threshold laser" (2001-2002). FORTH budget 100,000€.

National:

- -Coordination of EDBM103 project entitled "Nanophotonic semiconductor sources of single and entangled photons", funded by the Greek government (2020-2021). Budget 37,000 €.
- -Supervision of Doctoral Fellowship of E. Amargianitakis funded by the Stavros Niarhos Foundation, entitled "Entangled photons in GaN Polariton Lasers" (2019-2020). Budget 9,000 €.
- -Coordination of RIS3Crete project "NANOTANDEM" funded by the Region of Crete, on "High performance Perovskite/III-V semiconductor Nanostructure Tandem Solar Cells" (2019-2022). Budget 212,500 €.
- -Participation in Infrastructures project "INNOVATION-EL", co-financed by Greece and the European Regional Development Fund (2018-2021). Budget 25,875 €.
- -Supervision of Doctoral Fellowship of G. Thyris funded by the Stavros Niarhos Foundation, entitled "*High temperature single photon emitters based on InAs piezoelectric quantum dots*" (2018-2019). Budget 11,500 €.

- -Participation in KRHPIS II project "AENAO", co-financed by Greece and the European Regional Development Fund on "Materials and Processes for Energy and Environment Applications" (2017-2020). Budget 16,000 €.
- -Supervision of Doctoral Fellowship of E. Amargianitakis funded by the Hellenic Foundation for Research and Innovation, entitled "*Nitride Polariton Lasers*" (2017-2019). Budget 23,400 €.
- -Coordination of LANEF Chair of Excellence 2014 project, funded by the French government, entitled "Nanowire Innovative Solar Cells" (2014-2017). Total budget ~300,000 €.
- -Coordination of ARISTEIA II project "NILES" funded by the Greek government, on "Nanowire Innovative Light Emitting devices and Solar cells" (2014-2015). Total budget 245,000 €.
- -Coordination of THALES project "NANOPHOS" funded by the Greek government, on "Nanophotonic Semiconductor Devices" (2012-2015). Total budget 540,000 €
- -Coordination of Solar Innovation 2010 Award project funded by the French government on "*III-V Nanowires* for Next-generation Photovoltaics" (2011-2013). Total budget ~250,000 €.
- -Coordination of HRAKLEITOS II project funded by the Greek government, on "Photonic Devices of Piezoelectric Quantum Dots" (2010-2014). Total budget 45,000 €.
- -Συμμετοχή στο Πρόγραμμα Πόλου Καινοτομίας Κρήτης, 2007-2008, πάνω σε χαρακτηρισμό ημιαγωγικού υλικού για χημικούς αισθητήρες. Budget 16,000 €.
- -University grant from Public Investments 2006, for the purchase of a "Femtosecond Ti:Sapphire laser system" (2006-2007). Total budget 250,000 €.
- -Coordination of PENED 2003 project funded by the Greek government, on "*Tunable wavelength semiconductor lasers*" (2006-2009). Total budget 138,480 €.
- -Participation in PENED 2003 project funded by the Greek Research Council, on "*Strong coupling in GaN-based microcavities for polariton devices*" (2005-2008). Total budget 80,000 €.
- -Participation in PYTHAGORAS project funded by the Greek government, on "*Exploitation of strong light-matter coupling in organic microcavities for optoelectronic devices*" (2005-2006). Total budget 80,000 €.
- -Participation in PYTHAGORAS project funded the Greek government, on "*Growth and Properties on Novel III-V semiconductor heterostructures and nanostructures*" (2004-2006). Total budget 80,000 €.
- -Coordination of PENED 2001 project funded by the Greek government, on "UV-emitters" (2003-2006). Total budget 205,430 €.
- -Participation in Program of Excellence (Πρόγραμμα Αριστείας), granted to FORTH/IESL by the Greek government (2002-2006). Personal budget for building a UV micro-photoluminescence setup 100.000 €.
- -Participation in program EPEAEK, funded by the Greek government in order to support the Graduate Program on Micro- and Optoelectronics of the Physics Department of the University of Crete for the period 2002-2004.
- -Participation in Contrat-Région funded by the French government, on "Cubic nitride light emitting diodes" (1998-1999).
- -Participation in Contrat-Région funded by the French government, on "Nitride nanostructures: growth and characterisation" (1998-1999).
- -Participation in PENED with National Technical University of Athens funded by the Greek government, on "Hot electron-acceptor luminescence as a probe of dynamic relaxation processes in semiconductor heterostructures" (1997-1999).

Bilateral:

- -Coordination of Contrat Franco-Hellenique funded by the Ministries of Foreign Affairs of France and Greece, on "Piezoelectric quantum dots for photonic applications" (2006-2008).
- -Coordination of IKYDA exchange program between Greece and Germany (Technical University of Ilmenau), funded by IKY, on "Study for enhancing the performance of GaN-based UV photodiodes and lasers" (2004-2006).
- -Coordination of Contrat Franco-Hellenique funded by the Ministries of Foreign Affairs of France and Greece, on "Epitaxial growth and fabrication of quaternary nitride lasers with enhanced performance in the UV" (2003-2005).
- -Coordination of Contrat Franco-Hellenique funded by the Ministries of Foreign Affairs of France and Greece, on "Comparative study of hexagonal and cubic GaN heterostructures" (2000-2001).

Industrial:

-Participation in research contract funded by France Telecom, on "Photorefractive quantum wells for optical interconnects" (1993-1995).

EDUCATIONAL WORK:

Teaching:

- -Course on "Introduction in Semiconductors and Microelectronic/Optoelectronic Devices" in the 2nd year of the undergraduate program of the Materials Science and Technology Department of Univ. of Crete (spring semester 2020).
- -Course on "*Electromagnetism and Optics*" in the 3rd year of the undergraduate program of the Materials Science and Technology Department of Univ. of Crete (fall semester 2003-2018).
- -Course on "*Principles of Semiconductor Physics*" in the 4th year of the undergraduate program of the Materials Science and Technology Department of Univ. of Crete (spring semester 2009-2018, fall semester 2019).
- -Course on "Semiconductor Optoelectronic Devices" in the Microelectronics/Optoelectronics Master programs of the Physics Department and the Materials Science and Technology Department of Univ. of Crete (spring semesters 2002-2018, fall semester 2019).
- -Course on "Optoelectronics and Laser" in the 4th year of the undergraduate program of the Materials Science and Technology Department of Univ. of Crete (spring semester 2007-2008).
- -Course on "*Optoelectronic and Photonic materials*" in the 4th year of the undergraduate program of the Materials Science and Technology, Department of Univ. of Crete (spring semester 2005 and 2006).
- -Course on "*Microelectronic, Optoelectronic and Magnetic materials*" in the 2nd year of the undergraduate program of the Materials Science and Technology Department of Univ. of Crete (spring semester 2004).
- -Series of lectures on "Semiconductor Optical Properties and Laser Diodes" in the Summer school of the Physics Department of Univ. of Crete (July 2002 and 2003).
- -Co-directed the Microelectronics' postgraduate program of the Physics Department of the Univ. of Crete (2001-2003).
- -Teaching assistant in "General Physics" course in the undergraduate program of the Physics Department of Brown University, USA, (1985-1987).

Supervision:

Post-doctoral fellows:

- 5. Siew Li Tan, developing "Innovative Nanowire Solar Cells", CEA/Grenoble, 2014-2016.
- 4. **Savvas Germanis**, performing "Micro-photoluminescence characterization of transition metal dichalcogenides", FORTH, 2015-2016.
- 3. **Charalambos Katsidis**, on "Simulations of semiconductor nanostructures and devices", University of Crete, 2013-2015.
- 2. **Fotis Kalaitzakis**, developing and characterizing "*Polaritonic light emitting devices in the GaAs and GaN systems*", University of Crete/FORTH, 2012-2015.
- 1. **Moira Hocevar**, characterizing "*III-V Nanowires for Next Generation Photovoltaics*", CEA/Grenoble, 2012-2013.

Ph.D thesis advisor:

- 13. **C. Siaitanidou**, on "GaN polariton structures as sources of entangled photons", Materials Science, University of Crete (9/2020-).
- 12. **E. Manidakis**, on "Innovative semiconductor double-junction photovoltaic devices", Materials Science, University of Crete (10/2018-).
- 11. **N. Chatzarakis**, on "Single-Photon and Entangled-Photon Nanophotonic Sources Based on Innovative Semiconductor-Nanostructures", Materials Science, University of Crete (9/2018-).
- 10. E. Amargianitakis, on "Nitride polariton lasers", Materials Science, University of Crete (4/2016-12/2020).

- 9. **G. Dialynas**, on "Experimental and theoretical investigation of structural and optical properties of InAs quantum dots grown on (211)GaAs substrate", Physics, University of Crete (2004-2020, including a 10 year long interruption of studies due to employment in secondary education).
- 8. **S. Germanis**, on "Photonic devices based on piezoelectric InAs quantum dots", Materials Science, University of Crete (12/2010-10/2015). Subsequently, post-doc at the Pierre et Marie Curie University in Paris, developing quantum emitters based on dark states and quantum dot molecules.
- 7. **R. Jayaprakash**, on "Novel approaches for robust polaritonics", Materials Science, University of Crete (1/2011-10/2015). Subsequently, post-doc at the Department of Physics & Astronomy of University of Sheffield, developing hybrid polaritonic devices.
- 6. **F. Kalaitzakis**, on "Development of technology for improved nitride based optoelectronic devices", Materials Science, University of Crete (2004-2011). Subsequently, post-doc at the Microelectronics Research Group (FORTH/IESL) developing nitride-based optoelectronic devices.
- 5. **S. Tsintzos**, on "*Polariton light emitting devices*", Materials Science, University of Crete (2006-2010). Subsequently, post-doc at the Microelectronics Research Group (FORTH/IESL) developing polaritonic devices.
- 4. **G. Deligeorgis**, on "Laser diodes with a variable internal electric field", Physics, University of Crete (2002-2008). Subsequently, post-doc at the Microelectronics Research Group (FORTH/IESL) developing e-beam nano-patterning technology, and at LAAS-Toulouse developing graphene-based electronics.
- 3. **N. Le Thomas**, on "Diodes laser accordables en longueur d'onde à base de l'effet Stark quantique", Physics, Institut Polytechnique de Grenoble (1999-2002). Subsequently, post-doc at the group of U. Woggon in Univ. of Duisburg, and of Prof. Ilegems in EPFL Lausanne.
- 2. **J. Simon**, on *"Etude des propriétés optiques de nanostructures quantiques à base de nitrures d'éléments III"*, Physics, Université J. Fourier-Grenoble I (1998-2001). Subsequently hired by LETI in CEA/Grenoble.
- 1. **V. Ortiz**, on *"Etude de dispositifs optoélectroniques à base d'hétérostructures piézoélectriques"*, Physics, Université J. Fourier-Grenoble I (1996-1999). Subsequently hired at THALES Research Center.

M.Sc thesis advisor:

- 12. C. Siaitanidou, on "Towards two-dimensional GaN", Physics, University of Crete (2019-2020).
- 11. **E. Darivianaki**, on «*Hybrid nanowire/perovskite solar cells*», Materials Science, University of Crete (2018-2019).
- 10. **E. Manidakis**, on "*Nanowire core-shell heterostructures for photovoltaic applications*", Materials Science, University of Crete (2017-2018).
- 9. F. Miziou, on "Nitride microcavities for polariton devices", Physics, University of Crete (2016-2018).
- 8. **G. Thyris**, on *«Development of high temperature single photon emitters based on InAs piezoelectric quantum dots»*, Physics, University of Crete (2016-2017).
- 7. **E. Amargianitakis**, on "Nitride polariton structures with improved characteristics", Physics, University of Crete (2014-2016).
- 6. **S. Eftichis**, on "Improved electrical injection of GaAs polaritonic devices", Physics, University of Crete (2010-2011).
- 5. **S. Germanis**, on "Polarization-resolved single dot spectroscopy of (211)B InAs single quantum dots", Physics, University of Crete (2009-2010).
- 4. S. Tsintzos, on "Tunable vertical-cavity surface emitting lasers", Physics, University of Crete (2004-2006).
- 3. **G. Dialynas**, on «Influence of piezoelectric field in the lasing characteristics of InGaAs/AlGaAs quantum wells», Physics, University of Crete (2002-2004).
- 2. **F. Kalaïtzakis**, on "Fabrication and optical characterisation of laser structures with InAlGaN/GaN quantum wells in the active region", Physics, University of Crete (2001-2003).
- 1. **J. Simon**, on "Observation par spectroscopie des effets piézo-électriques géants d'hétérostructures à base de Nitrure de Gallium", Physics, Université J. Fourier-Grenoble I (1998).

B.Sc diploma work advisor:

3. **E. Darivianaki**, on «*Core-shell GaAs/InGaAs nanowire-based photovoltaic devices*», Materials Science, University of Crete (2017).

- 2. **N. Vasilantonakis**, on *«Optical characterisation of InGaAs/AlGaAs quantum wells for use in polaritonic devices»*, Materials Science, University of Crete (2009).
- 1. A. Pantazis, on «Study of InAs quantum dots self-assembled on GaAs», Physics, University of Crete (2002).

CONFERENCE ORGANIZING:

- -International Program Committee of the 34th International Conference of the Physics of Semiconductors, held in Montpellier, France, July 2018.
- -Chairman of the 30th Panhellenic Conference on Solid State Physics and Materials Science, held in Heraklion Crete, September 2014. (http://fsk30.materials.uoc.gr/)
- -Organizing and Program Committee of the Micro & Nano 2012 Conference, held in Heraklion, Kokkini Hani, October 2012.
- -International Scientific Committee of the Micro & Nano 2010 Conference, held in Athens, December 2010.
- -International Scientific Committee of the ICO-Photonics-Delphi2009 Conference on "Emerging Trends and Novel Materials in Photonics" in Delphi, Greece, October 7-9, 2009.
- -Co-chairman of the European Workshop on III-Nitrides Semiconductors and Devices (EW3NS), held in Hersonissos Crete, September 2006.
- -Programme Committee of the Microelectronics Microsystems and Nanotechnology Conference (MMN'04), held in Athens, November 2004.
- -Organizing committee of the 13th Heterostructure Technology Workshop, held in Koutouloufari Crete, October 2004.
- -Organizing committee of the XVIII Panhellenic Conference of Solid State Physics, held in Heraklion Crete, September 2002.

EVALUATION EXPERT:

- -External Evaluator in multiple EC-funded projects (2006-2015), such as for instance in Integrated project ZODIAC on quantum dot lasers.
- -Evaluation Expert for EC-proposals such as SEE-Eranet 2007, IST-2.5.1 "Photonic Components" 2005, IST-FET 2005, INTAS 2004 and 2003. Also, evaluated proposals for French (ANR) and Israeli (ISF) funding agencies.
- -Reviewer/evaluator in several Greek-funded projects/proposals, such as for instance 2019 Metadidaktores, 2018 IKY, and 2017 $E\Delta BM34$.

REVIEWING:

-Referee for Phys. Rev. Lett., Scientific Reports, ACS Photonics, Phys. Rev. B, Phys. Rev. Applied, Appl. Phys. Lett., J. Appl. Phys, phys. Stat. sol., Nanoscale Research Letters, Microelectronic Engineering.

OTHER:

- -Ph.D defense committee of **Perrakis Georgios,** University of Crete, Arpil 2021, with thesis title: "Photonic approaches for the thermal control of photovoltaics".
- -Ph.D defense committee of **Demeridou Ioanna**, University of Crete, March 2021, with thesis title: "Pulsed Laser Induced Doping of Two-Dimensional Crystals".
- -Ph.D defense committee of **Florini Nikoletta**, Aristotelian University of Thesaloniki, January 2021, with thesis title: "Study of structure and mechanical behavior of low-dimensional III-V semiconductor heterostructures".
- -Ph.D defense committee of **Doundoulakis George**, University of Crete, November 2019, with thesis title: "Realization and physical analysis of field-effect transistors based on GaN nanofins and vertical nanowires".

- -Ph.D defense committee of **Gagaoudakis Emmanuel**, University of Crete, November 2019, with thesis title: "Study of thermo-chromic materials with low growth temperature based on the vanadium oxide (VO2)".
- -Ph.D advisory committee of **Paschos Ioannis**, University of Crete, April 2019, with thesis title: "Development of prototype polaritonic devices exploiting the macroscopic bosonic properties of polaritons in semiconductor microcavities".
- -Ph.D defense committee of **Tzimis Alexandros**, University of Crete, March 2019, with thesis title: "Study of parabolic quantum well microcavities and terahertz time domain spectroscopy in the bosonic cascade regime".
- -Ph.D defense committee of **Savvas Eftychis**, University of Crete, December 2018, with thesis title: "Spontaneous and selective growth of GaN nanowires on Si (111) substrates by molecular beam epitaxy".
- -Ph.D defense committee of **Kyriaki Savva**, University of Crete, July 2018, with thesis title: "Laser assisted development of Graphene and Transition Metal Dichalcogenide nanomaterials".
- -Ph.D defense committee of **George Kakavelakis**, University of Crete, May 2018, with thesis title: "Advanced interface engineering for solution-processable photovoltaics".
- -Ph.D defense committee of **Ioannis Paradisanos**, University of Crete, March 2018, with thesis title: "Excitons in atomically thin tungsten disulfide (WS₂) layers".
- -Ph.D defense committee of **Elena Papadomanolaki**, University of Crete, September 2017, with thesis title: "Epitaxial growth and characterization of III-nitride thin films and heterostructures for photovoltaic applications".
- -Ph.D defense committee of **Panagiotis Tsotsis**, University of Crete, February 2015, with thesis title: "Fabrication and Study of Novel Polaritonic Devices".
- -Rapporteur in the Ph.D defense committee of **Thanh Giang Le Thuy**, Université de Grenoble, July 2014, with thesis title: "Croissance de nanofils III-V par epitaxie par jets moleculaires".
- -Rapporteur in the Ph.D defense committee of **Aparna Das**, Université de Grenoble, June 2012, with thesis title: "Boîtes quantiques de semi-conducteurs nitrures pour des applications aux capteurs opto-chimiques".
- -Ph.D advisory committee of **E. Trichas**, University of Crete, December 2010, with thesis title: "Strong light-matter coupling in GaN microcavities".
- -Ph.D advisory committee of **N. Sofikiti**, University of Crete, December 2009, with thesis title: "Development of chemical sensors and biosensors based on III-nitride heterostructures and nanostructures".
- -Ph.D advisory committee of **Z. Viskadourakis**, University of Crete, June 2009, with thesis title: "Metal Oxides for Magnetotransport and Thermoelectric Applications".
- -Ph.D advisory committee of **E. Dimakis**, University of Crete, January 2007, with thesis title: "Physical mechanisms of molecular beam epitaxy and properties of InN thin films (0001)".
- -Ph.D defense committee of **Stephanie Blanc**, Université Paul Sabatier in Toulouse, November 2002, with thesis title: "Matériaux III-V épitaxiés sur substrats GaAs (111) pour structures lasers émettant au delà du micrometre".
- -Interview for an article appeared in the July 2002 issue of **Compound Semic**onductors regarding the FORTH activity on Quaternary Nitride Low-Threshold Lasers.
- -Interview for an article in **Physics World** (May 2008) regarding the demonstration of a near room temperature GaAs polariton light emitting device.