

CURRICULUM VITAE

Zoe Kollia

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Education

Ph.D., thesis on Laser Physics and material science at the Technical University of Athens University, (2004)

B. SC degree in PHYSICS from Crete University (1989)

Research and teaching appointments

2006- : Scientific Technical Staff at TPCI- NHRF, Athens, Greece.

2004-2006: Post Doctoral Researcher at TPCI- NHRF, Athens, Greece.

2000-2001: Research Assistant in IMEL NCSR Demokritos, Athens, Greece.

1998-2004: Research Assistant in TPCI- NHRF, Athens, Greece.

1996-1998: Research Assistant in Technical University of Athens University, Greece.

1991-1995: Post-Graduate student, TPCI- NHRF, Athens, Greece.

1989-1991: Research Assistant, Institute of Electronic Structure and Laser (IESL-FORTH) Crete, Greece.

Main research interests

- Electronic optical and magnetic properties of inter-metallic alloy nano composites.
- High resolution imaging techniques (SPM, AFM, STM).
- Surface modification and functionalization of organic thin films with high energy photons.

External funding

Participant in 17 international and 6 national research projects in collaboration with academic and industrial organizations.

INTERNATIONAL: EUREKA, BRITE-EURAM, SCIENCE, HUMAN CAPITAL & MOBILITY, LINKAGE-NATO, LARGE SCALE INSTALLATION, ESPRIT, 3 IST, 2 INTAS, Quality of Life, GROWTH.

NATIONAL: 2 PENED, 4 Bilateral.

Conferences and invited talks

100 international and 6 Greek conferences.

Honors and awards

Specialization and Training fellowship of the Institute of Electronic Structure and Laser (IESL-FORTH) Crete, Greece, (1989-1991).

Post-graduate fellowship of the Theoretical and Physical Chemistry Institute (TPCI-NHRF), Athens, Greece. (1991-1995).

Teaching activities

Teaching assistant (Physics Laboratory III – Optics) at the Physics Department, University of Crete (1988-1990).

Publications ([Full list of publications](#))

65 publications in refereed journals, 22 publications in refereed conference proceedings and 2 technical reports. More than 500 citations.

Selected recent publications

1. "Thermionic field emission in gold nitride Schottky nanodiodes", N. Spyropoulos-Antonakakis, E. Sarantopoulou, Z. Kollia, Z. Samardzija, S. Kobe and A. C. Cefalas, [J. Appl. Phys. **112**, 094301 \(2012\).](#)
2. "Protein immobilization and detection on laser processed polystyrene surfaces", E. Sarantopoulou, P.S. Petrou, Z. Kollia, D. Palles, N. Spyropoulos-Antonakakis, S. Kakabakos and A.C. Cefalas, [J. Appl. Phys. **110**, 064309 \(2011\).](#)
3. "Interplanetary survival probability of *Aspergillus terreus* spores under simulated solar vacuum ultraviolet irradiation", E. Sarantopoulou, I. Gomoiu, Z. Kollia and A.C. Cefalas, [Planet. Space Sci. **59**, 63 \(2011\).](#)
4. "Determination of oxygen content in pulsed laser deposited InN thin films with analytical electron microscopy", G. Drazic, E. Sarantopoulou, Z. Kollia, A.C. Cefalas and S. Kobe, [Microsc. Microanal. **15**, 1316 \(2009\).](#)
5. "Analytical electron microscopy of InN thin films prepared by pulsed laser deposition", G. Drazic, E. Sarantopoulou, Z. Kollia, A.C. Cefalas and S. Kobe, [Microsc. Microanal. **14**, 254 \(2008\).](#)
6. "Growth, clustering and morphology of intermetallic alloy core-shell nanodroplets.", A.C. Cefalas, S. Kobe, E. Sarantopoulou, Z. Kollia, and Z. Kollia, [Phys. Status Solidi A **205**, 1465 \(2008\).](#)
7. "Surface modification of polymeric thin films with vacuum ultraviolet light." E. Sarantopoulou, J. Kovač, Z. Kollia, I. Raptis, S. Kobe and A.C. Cefalas, [Surf. Interface Anal. **40**, 400 \(2008\).](#)