

## ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

### Zoe Kollia

Dr. / Scientific Technical Staff, TPCI/NHRF  
Institute Theoretical and Physical Chemistry  
National Hellenic Research Foundation,  
48 Vassileos Constantinou Ave.,  
Athens 11635, Greece

Phone: +30 210 7273839

Fax: +30 210 7273842

E-mail: [zkollia@eie.gr](mailto:zkollia@eie.gr)

Website: <http://www.eie.gr/nhrf/institutes/tpci/cvs/cv-kolia-gr.html>



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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 \(2008\).](#)