Curriculum Vitae

PEOGLOS Vassilios, Assistant Professor, Physics Department, National Technical University of Athens - NTUA, Greece.

Date and place of birth: December 21, 1945, Coupa, Kilkis, / Greece.

Communication:

National Technical University of Athens
Physics Department
Zografou Campous
Tel: +30 2107722987
Fax: +302107722932
e-mail: vaselpi@central.ntua.gr

Education:

1966 - 71 Faculty of Science, University of V. I. Lenin, Tashkent (USSR)
1971 Diploma in Physics (specialized in Physics of Electronic Devices)
1998 Ph.D in Physics, National Technical University of Athens, Athens (Greece)

Academic Employment/Occupation:

1971 – 1973: Research Associate in the research project: ‘‘*Very low photo emission* (*сверхслабое свечение*) *of diseased human organs*’’, Biochemistry Department of the Institute of Medicine, Tashkent, USSR.
1973 – 1977: Research Associate and Laboratory Director at the Electronic and Quantum Devices Department of the Institute of Telecommunications, Tashkent, USSR.
1980 – 2000: Research Associate, Physics Laboratory A΄, NTUA
2000 – 2008: Lecturer, Physics Department, Faculty of Applied Mathematics and Physics, NTUA
2008: Assistant Professor, Physics Department, Faculty of Applied Mathematics and Physics, NTUA.

Teaching Activities:

- Laboratory exercises in the Faculties of NTUA. (Writing of manuals, design, assembly and installation of laboratory devices in the Laboratory of the Physics Department, NTUA).
- *Experimental Physics Techniques* (undergraduate subject, 6^{th} semester), Faculty of Applied Mathematics and Physics.
- Supervision of Diploma and Ph.D. Theses.
- Writing of students’ notes.

Research Activities:

- Research project: ‘‘*Very low photo emission* (*сверхслабое свечение*) *of diseased human organs*’’, Biochemistry Department of the Institute of Medicine, Tashkent, USSR.
- Research project: ‘‘Study, design and construction of a digital ohmmeter in the area 10^8–10^{14} Ω’’, Institute of Telecommunications, Tashkent, USSR.
- Main Coordinator in the Research project: ‘‘Study, design and construction of a very low light intensity photometer’’, Institute of Telecommunications, Tashkent, USSR.
- Research project: ‘‘Study, design and construction *of a portable chromatographer*’’, Institute of Telecommunications, Tashkent, USSR.
- Experimental studies of the factors causing discrepancy between theory and experimental data, in case of all past experiments concerning the experimental check of the magnetostatic law of Biot-Savart.
- Study of the enigmatic phenomenon of Exoelectron Emission, which was completed with the formation of a rather satisfactory model of it. The cause of the phenomenon was clarified as well as its evolution and the parameters which affect it. The conditions, under which it is possible to measure the electron affinity with simultaneous study of thermoluminescence and exoelectron emission, were also determined.
- Design and experimental study of a new alternative method of measuring the electron affinity of dielectric materials, through measuring the energy distribution of secondary emission electrons.
- Broadband dielectric relaxation spectroscopy. Thermally stimulated depolarization currents technique. Study of polymer nanocomposites in collaboration with national and international laboratories. Fabrication of nanocomposites of various polymer matrices and various nanofillers (layered clays, carbon nanotubes, Silica particles, carbon particles, ferromagnetic particles). Chemical surface modification of the nanoparticles surface, Sol-Gel method. Structure - property relationships in polymers and composites. Study of the glass transition of monomers, oligomers and polymers.

Publications, Conference Participations: 10 journal papers and 6 papers in conference proceedings (23 heterocitations), 6 conference participations

Languages: Greek (mother tongue), Russian (fluent).

SCIENTIFIC PUBLICATIONS

I. THESES

V. Peoglos, *Study of the thermionic model of exoelectron emission*, Ph.D. thesis, NTUA, Athens (1998).

II. REFEREED SCIENTIFIC JOURNALS

1. V. Peoglos, *Measurement of the magnetostatic force of a current circuit on a part of itself*, J. Phys. D: Appl. Phys. **21**, (1988), 1055-1061
2. V. Peoglos and C. Christodoulides, J. Phys. D: Appl. Phys. **34** (2001) 862-867. *Thermoluminescence, exoelectron emission and electron affinity of a KCL thin film*.
3. V. Peoglos, phys. stat. sol. (a), **201,** $N_{0.}$ 13, 2953-2965 (2004). *Exoelectron emission as emission of hot electrons*.
4. V. Peoglos, E. Logakis, Ch. Pandis, P. Pissis, J. Pionteck, M. Mičušik and M. Omastova, *Thermal and electrical properties of multiwalled carbon nanotubes reinforced polyamide 6*, Journal of Nanostructured Polymers and Nanocomposites 3/4 (2007), 116-124.
5. C. Pandis E. Logakis, V. Peoglos, P. Pissis, M. Omastova, M. Mravĉakova, A. Janke, J. Pionteck, Y. Peneva and L. Minkova, *Morfology, Microhardness, and Electrical Properties of Composites Based on Polypropylene, Mortmorillonite, and polypyrrole*, Journal of Polymer Scince, Part B: Polymer Physics 47, 407-423, (2009).
6. Emmanuel Logakis, Christos Pandis, Vasilios Peoglos, Polykarpos Pissis, Charalampos Stergiou, Jürgen Pionteck, Petra Poetschke, Matej Mičušik Maria Omastova, *Structure-Property Relationships in polyamide 6/Multi-Walled Carbon Nanotubes Nanocomposites,* Journal of Polymer Scince, Part B: Polymer Physics 47 (8), 764-774, (2009).
7. E. Logakis, Ch. Pandis, V. Peoglos, P. Pissis, J. Pionteck, P. Poetschke, M. Mičušik and M. Omastova, *Electrical/dielectric properties and conduction mechanism in melt processed polyamide/multi-walled carbon nanotubes composites*, Polymer 50, 5103-5111 (2009).
8. E. Logakis, E. Pollatos, Ch. Pandis, V. Peoglos, I. Zuburtikudis, C.G. Delides, A. Vitalis, M. Gioka, E syskakis, K. Viras, P. Pissis, *Structure-property relationships in isotactic polypropylene/ multi-walled carbon nanotubes nanocomposites,* Composites Science and Technology, 70, (2010),338-335.
9. E. Pollatos, E. Logakis, P. Chatzigeorgiou, V. Peoglos, I. Zuburtikudis, M. Gioka, K. Viras, P. Pissis, *Morfology, thermal and electrical characterization of sindiostatic polypropylene/ multi-walled carbon nanotubes nanocomposites,* J. Macromol. Sci. Phys., in pres.

III. REFEREED INTERNATIONAL CONFERENCE PROCEEDINGS

1. V. Peoglos, E. Logakis, Ch. Pandis, P. Pissis, J. Piontek, P. Poetschke, M. Micusik, M. Omastova, *Thermal and electrical characterization of multi-walled carbon nanotubes reinforced polyamide 6 nanocomposites*, J. of Nanostructured Polymers and Nanocomposites 3/4, 116-124 (2007)
2. C. Pandis, E. Logakis, V. Peoglos, P. Pissis, M. Omastova, M. Mravcakova, A. Janke, J. Piontek, Y. Peneva, L. Minkova, *Morphology, microhardness, and electrical properties of composites based on polypropylene, montmorillonite, and polypyrrole*, J. Polym. Sci. Part B Polym. Phys. 47, 407-423 (2009)
3. E. Logakis, C. Pandis, V. Peoglos, P. Pissis, C. Stergiou, J. Piontek, P. Poetschke, M. Micusik, M. Omastova, *Structure-property relationships in polyamide 6 / multi-walled carbon nanotubes nanocomposites*, J. Polym. Sci. Part B Polym. Phys. 47, 764-774 (2009)

4. E. Logakis, Ch. Pandis, V. Peoglos, P. Pissis, J. Piontek, P. Poetschke, M. Micusik, M. Omastova, *Electrical/dielectric properties and conducrtion mechanism in melt processed polyamide/multi-walled carbon nanotubes composites*, Polymer 50, 5103-5111 (2009)
5. E. Logakis, Ch. Pandis, V. Peoglos, P. Pissis, A. Kanapitsas, J. Pionteck, P. Poetschke, M. Micusik, M. Omastova, *Thermal and electrical properties of polyamide / multi-walled carbon nanotubes nanocomposites* NSTI Nanotech 2007, Vol. 2, pp. 96-99, 2007.
6. Ch. Pandis, E. Logakis, M. Chorianopoulos, A. Spanoudaki, A. Kyritsis, V. Peoglos, P. Pissis, M. Micusik, I. Krupa, M. Omastova, J. Pionteck, P. Poetschke, *Thermal and electrical characterization of polypropylene/carbon nanotube nanocomposites*, NSTI Nanotech 2007, Vol. 2, pp. 166-169, 2007.

IV. CONFERENCE PARTICIPATION/ATTENDANCE:

1. P. Pissis, Ch. Pandis, E. Logakis, M. Chorianopoulos, A. Spanoudaki, A. Kiritsis, V. Peoglos, M. Mičušik, I. Krupa, M. Omastova, J. Pionteck and P. Pötschke. ‘‘*Thermal transition and electrical properties of carbon nanotubes reinforced polypropilene*’’. 3rd International Symposium on Nanostructured and Functional Polymer-Based Materials and Nanocomposites, Corfou (Greece), 16-18 May 2007.
2. E. Logakis, Ch. Pandis, V. Peoglos, P. Pissis, A. Kanapitsas, J. Pionteck, P. Pötschke, M. Mičušik and M. Omastova, ‘‘*Thermal and electrical properties of Polyimide/Multiwalled Carbon Nanotubes nanocomposites*’’, NSTI Nanotech 2007, Santa Clara, California, 20-24 May 2007.
3. Ch. Pandis, E. Logakis, M. Chorianopoulos, A. Spanoudaki, A. Kiritsis, V. Peoglos, P. Pissis, M. Mičušik, I. Krupa, M. Omastova, J. Pionteck and P. Pötschke. ‘‘*Thermal and Electrical Characterization of Polypropylene/Carbon Nanotube Nanocomposites*’’. NSTI Nanotech 2007, Santa Clara, California, 20-24 May 2007.
4. E. Logakis, Ch. Pandis, A. Kanapitsas, V. Peoglos, P. Pissis, J. Pionteck, P. Pötschke, M. Mičušik and M. Omastova, ‘‘*Thermal transition and electrical properties of polyimide/Carbon Nanotubes nanocomposites*’’, The International Conference on Structural Analysis of Advanced Material.(ICSAM), Patras (Greece), 2-6 September, 2007.
5. Ch. Pandis, E. Logakis, M. Chorianopoulos, A. Spanoudaki, A. Kiritsis, V. Peoglos, P. Pissis, M. Mičušik, I. Krupa, M. Omastova, J. Pionteck and P. Pötschke. ‘‘*Thermal transition and Electrical properties of Carbon Nanotubes-filled polypropylene nanocomposites*’’. The International Conference on Structural Analysis of Advanced Material.(ICSAM), Patras (Greece), 2-6 September, 2007.
6. E. Logakis, Ch. Pandis, V. Peoglos, P. Pissis, ‘‘*Thermal and electrical properties of polyimide/carbon-nanotubes nanocomposites*’’. 3rd Hellenic Conference of Thermal Analysis, Athens, December 7-9, 2007.