

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

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EDUCATION

- Doctorate in Condensed Matter Physics, National Technical University of Athens, School of Applied Sciences, Department of Physics, Greece (2000).
- Master's Degree in Physics, University of Oklahoma, Department of Physics and Astronomy, U.S.A. (1993). Military service 1989–1991.
- Diploma in Mechanical Engineering, National Technical University of Athens, Greece (1988).

RESEARCH & TEACHING APPOINTMENTS

- 10/2007 - : Application Scientist, TPCI, NHRF, Athens, Greece.
- 9/2004-9/2007: Research Associate and Adjunct Lecturer, National Technical University of Athens, School of Applied Sciences, Department of Physics, Greece.
- 9/2003-7/2004: Adjunct Lecturer, University of Patras, Department of Materials Science, Greece.
- 4/2000-12/2002: Visiting Postdoctoral Researcher, National Research Council (CNR), Institute for the Study of Nanostructured Materials (ISMN), Bologna division, Italy.
- 1/1994-3/2000: Teaching and Research Assistant, National Technical University of Athens, School of Applied Sciences, Department of Physics, Greece.
- 1/1992-6/1993: Teaching Assistant, University of Oklahoma, Department of Physics and Astronomy, Norman, Oklahoma, USA.

MAIN RESEARCH INTERESTS

- Vibrational Spectroscopy (Raman and Infra-Red) in Materials Physical Chemistry and in particular ionic glasses with targeted advanced functionalities. Previous work in Condensed Matter Physics includes (a) Transition Metal Oxides (High Temperature Cuprate Superconductors, Manganites, Vanadates), (b) Fullerenes and derivative systems, (c) Other materials for applications (e.g. Hybrid Organic/Inorganic Solid State Photovoltaic Cells, semiconductors, etc.).
- Second Harmonic Generation characterization of materials (glasses etc.) with non-linear optical properties.

RESEARCH PROJECTS

Coordinator Assistant or participant in eleven national and international research projects in collaboration with academic and industrial organizations (national: PENED, EPET, etc, EC: Marie Curie-TMR, STREP, TOK, ERA.Net).

CONFERENCES

33 international and 12 national conferences, 15 talks to Universities/Institutes.

HONORS & AWARDS

Fellowship of the Greek State Scholarship Foundation (IKY) for doctorate thesis (Nov. 1994 - Apr. 1998).

Fellowship of the Greek State Scholarship Foundation (IKY) for post-doctoral research (Nov. 2003–Oct. 2004).

PUBLICATIONS

47 refereed publications in journals, 51 conference publications or presentations, more than 350 citations.

SELECTED RECENT PUBLICATIONS

1. "Phase separation in fully oxygenated $Y_{1-y}Ca_yBa_2Cu_3O_x$ compounds", E. Liarokapis, D.Palles, D. Lampakis, G. Böttger, K.Conder, and E. Kaldis, [Phys. Rev. B 71, 014303 \(2005\)](#) – selected in the Feb. 2005 edition of the Virtual Journal of Applications of Superconductivity (<http://www.vjsuper.org>, AIP & APS etc. publ.) as representative of frontier research.
2. "Unusual polymerisation in low-doped lithium fulleride Li_4C_{60} ", M. Riccò, T. Shiroka, M. Belli, D. Pontiroli, M. Pagliari, G. Ruani, D. Palles, S. Margadonna, M. Tomaselli, [Phys. Rev. B 72, 155437 \(2005\)](#).

3. "Solid state dye PV cells using opal inverse TiO₂ films", P.R. Somani, C. Dionigi, M. Murgia, D. Palles, P. Nozar, G. Ruani, [Solar Energy Materials and Solar Cells 87, 513 \(2005\)](#).
4. "Phase separation, microstructure and superconductivity in the Y_{1-x}Pr_xBa₂Cu₃O_y compounds", M. Calamiotou, A. Gantis, I. Margiolaki, D. Palles, E. Siranidi, and E. Liarokapis, [J. Phys.: Cond. Mat. 20, 395224 \(2008\)](#).
5. "Thermal poling-induced second harmonic generation in sodium niobium-germanate glasses", G. Guimbretiere*, E.I. Kamitsos and D. Palles, Emerging Trends and Novel Materials in Photonics; Delphi, Greece, October 7-9, 2009 (oral presentation).
6. "Formation of an Outer Borosilicate Glass Layer on Blue Late Bronze Age Mycenaean Vitreous Relief Fragments", D. Möncke, D. Palles, N. Zacharias, M. Kaparou, E. I. Kamitsos, L. Wondraczek, Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B [54](#), 52 (2013).
7. "Structure–property correlations in highly modified Sr, Mn-borate glasses", A. Winterstein-Beckmann, D. Möncke, D. Palles, E.I. Kamitsos, L. Wondraczek, [J. Non-Cryst. Solids 376, 165 \(2013\)](#).