

CURRICULUM VITAE

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EDUCATION

- Ph.D in Solid State Physics, Department of Physics, School of Applied Mathematical and Physical Sciences, National Technical University of Athens (2010).
- M.Sc in Solid State Physics, Department of Physics, National and Kapodistrian University of Athens (2005).
- Diploma of Physics, Department of Physics, Aristotle University of Thessaloniki (2003).

PROFESSIONAL EXPERIENCE AND APPOINTMENTS

- 6/2017-Present: Research Associate. Applied Spectroscopy Laboratory, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation.
- 9/2015-2/2016: Post-Doctoral Researcher. School of Chemical Engineering, NTUA.
- 9/2014-7/2015: Post-Doctoral Researcher. Institute of Nanoscience and Nanotechnology, NCSR "Demokritos".
- 9/2012-8/2014: Post-Doctoral Researcher. Physics Department of School of Applied Mathematical and Physical Sciences, NTUA.

MAIN RESEARCH INTERESTS

- Application of non-destructive spectroscopic techniques to industrial production monitoring and quality control.
- Structural /spectroscopic characterization (X-ray diffraction-Rietveld analysis, Raman and Infra-Red spectroscopy) of a variety of materials, such as: high T_c superconductors, perovskite compounds and perovskite solar cells, carbon nanotubes, graphene and graphite oxides as well as ionic liquids, clays and drugs.

AWARDS AND DISTINCTIONS

The article "*Pressure-induced lattice instabilities and superconductivity in YBa₂Cu₄O₈ and optimally doped YBa₂Cu₃O_{7-δ}*", Phys. Rev. B **80**, 214517 (2009). <http://prb.aps.org/abstract/PRB/v80/i21/e214517> **was selected** for "Virtual journal of Applications of Superconductivity", Vol. 18, Issue 1 (2010).

CONFERENCES

10 international and national conferences.

PUBLICATIONS

27 refereed publications in journals, 3 publications in conference proceedings, more than 173 citations.

SELECTED PUBLICATIONS

1. "*Embedding of hybrid MWCNT-Al₂O₃ particles in Ni matrix, Structural, tribological and corrosion studies*", N. Chronopoulou, E. Siranidi, A.-M. Routsis, H. Zhao, J. Bai, A. Karantonis, E. A. Pavlatou, Surface & Coatings Technology **350**, 672 (2018).
2. "*Copper nanowire coated carbon fibers as efficient substrates for detecting designer drugs using SERS*", Halouzka V., Halouzskova, B., Jirovsky D., Hemzal D., Ondra P., Siranidi E., Kontos AG., Falaras P., Hrbac J, Talanta **165** (2017) 384–390.
3. "*Structural stability, vibrational properties and photoluminescence in CsSnI₃ perovskite upon addition of SnF₂*", A. Kontos, A. Kaltzoglou, E. Siranidi, D. Palles, G. Angeli, M. Arfanis, V. Psycharis, Y.S. Raptis, E.I. Kamitsos, P.

- Trikalitis, C. Stoumpos, M.G. Kanatzidis, and P. Falaras, *Inorg. Chem.*, 2017, **56** (1), pp 84–91.
4. "Optical-Vibrational Properties of the Cs_2SnX_6 ($X = Cl, Br, I$) Defect Perovskites and Hole-Transport Efficiency in Dye-Sensitized Solar Cells", A. Kaltzoglou, M. Antoniadou, A.G. Kontos, C.C. Stoumpos, D. Perganti, E. Siranidi, V. Raptis, K. Trohidou, V. Psycharis, M.G. Kanatzidis, P. Falaras, *J. Phys. Chem. C* **120** (22), pp 11777–11785 (2016).
 5. "Microscopic study of the corrosion behaviour of mild steel in ionic liquids for CO_2 capture applications", I. S. Molchan, G. E. Thompson, P. Skeldon, R. Lindsay, J. Walton, E. Kouvelos, G. Em. Romanos, P. Falaras, A. G. Kontos, M. Arfanis, E. Siranidi, L. F. Zubeir, M. C. Kroon, J. Klockner, B. Iliev, and T. J. S. Schubert, *RSC Adv.* **5**, 35181 (2015).
 6. "Lattice anomalies in the $FeAs_4$ tetrahedra of $NdFeAsO_{0.85}$ superconductor that disappear at T_c ", M. Calamiotou, I. Margiolaki, A. Gantis, E. Siranidi, Z.A. Ren, Z.X. Zhao, E. Liarokapis, *EPL* **91**, 57005 (2010).
 7. "Pressure-induced lattice instabilities and superconductivity in $YBa_2Cu_4O_8$ and optimally doped $YBa_2Cu_3O_{7-\delta}$ ", M. Calamiotou, A. Gantis, E. Siranidi, D. Lampakis, J. Karpinski, E. Liarokapis, *Phys. Rev. B* **80**, 214517 (2009).
 8. "Pressure induced phase separation in the Y123 superconductor", M. Calamiotou, A. Gantis, D. Lampakis, E. Siranidi, E. Liarokapis, I. Margiolaki, K. Conder, *EPL* **85**, 26004 (2009).
 9. "Phase separation, microstructure and superconductivity in the $Y_{1-x}Pr_xBa_2Cu_3O_y$ compounds", M. Calamiotou, A. Gantis, I. Margiolaki, D. Palles, E. Siranidi, E. Liarokapis, *J. Phys.: Condens. Matter* **20**, 395224 (2008).