

## ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

### Ilias Efthimiopoulos

Research Associate  
Theoretical and Physical Chemistry Institute  
National Hellenic Research Foundation  
48 Vassileos Constantinou Ave.  
Athens 11635, Greece

Phone: +30 210 7273826

Fax: +30 210 7273794

E-mail: iliefthi@eie.gr



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### EDUCATION

- Ph.D. in Physics, Max Planck Institute for Solid State Research and Aristotle University of Thessaloniki (joint), Germany & Greece (2010)
- M.Sc. in Physics, Aristotle University of Thessaloniki, Greece (2007)
- B.Sc. in Physics, Aristotle University of Thessaloniki, Greece (2005)

### PROFESSIONAL EXPERIENCE AND APPOINTMENTS

03/2015 – present: Research Associate, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece

10/2012 – 01/2014: Research Associate, Department of Physics, Oakland University, Rochester, Michigan U.S.A.

12/2011 – 09/2012: Postdoctoral fellow, Max Planck Institute for Solid State Research, Stuttgart, Germany

## MAIN RESEARCH INTERESTS

- Structure and lattice dynamics of crystalline and amorphous materials (x-ray diffraction, Raman and Infrared spectroscopy).
- Phase transformations at extreme conditions (high pressures and temperatures).
- Correlated-electron systems.

## EXTERNAL FUNDING

Participant in two international research projects (U.S DOE, NSF).

## TEACHING EXPERIENCE

- Experimental supervision and advising for several undergraduate students, Department of Physics, Oakland University, Rochester, MI, U. S. A. 2012-2014.

## PROFESSIONAL AFFILIATIONS & ACTIVITIES

Member of the American Physical Society.

Reviewer for several international journals.

## AWARDS AND DISTINCTIONS

- **Best poster presentation award** for "*High-pressure structural investigations of Fe-based superconductors*" at PCSSP 2009 Thessaloniki.
- **Best poster presentation award** for "*Pressure-induced phase transitions in  $LaTiO_3$* " at EHPRG 2012 Thessaloniki.

## CONFERENCES & PUBLICATIONS

7 international and 2 national conferences, 12 peer-reviewed publications.

**SELECTED PUBLICATIONS**

1. "Synthesis, Characterization and Functionalization of Iron Oxide Nanoparticles for Applications in Magnetic Particle Hyperthermia", M. Filippousi, M. Angelakeris, M. Katsikini, E. Paloura, *I. Efthimiopoulos*, Y. Wang, D. Zamboulis, and G. V. Tendeloo, , [Journal of Physical Chemistry C 118, 16209 \(2014\)](#).
2. "Multiple pressure-induced transitions in  $\text{HgCr}_2\text{S}_4$ ", I. Efthimiopoulos, A. Yaresko, V. Tsurkan, J. Deisenhofer, A. Loidl, C. Park, and Y. Wang, [Applied Physics Letters 103, 201908 \(2013\)](#).
3. " $\text{Sb}_2\text{Se}_3$  under pressure", I. Efthimiopoulos, J. Zhang, M. Kucway, C. Park, R. C. Ewing, and Y. Wang, [Scientific Reports 3, 2665, \(2013\)](#).
4. "Structural transformation and vibrational properties of  $\text{BaC}_2$  at high pressure", I. Efthimiopoulos, K. Kunc, G. V. Vazhenin, E. Stavrou, K. Syassen, M. Hanfland, St. Liebig, and U. Ruschewitz, [Physical Review B 85, 054105 \(2012\)](#).
5. "Structural transformation and vibrational properties of  $\text{BaO}_2$  at high pressure", I. Efthimiopoulos, K. Kunc, S. Karmakar, K. Syassen, M. Hanfland, and G. Vajenine, [Physical Review B 82, 134125 \(2010\)](#).
6. "Tube encapsulation effects in various carbon nanotube systems", D. Christofilos, J. Arvanitidis, *I. Efthimiopoulos*, X. Zhao, Y. Ando, T. Takenobu, Y. Iwasa, H. Kataura, S. Ves, and G. A. Kourouklis, [Physica status solidi \(b\) 244, 4082 \(2007\)](#).