








PERSONAL INFORMATION

Alexandra A. Ioannidou



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Sex Female | Date of birth 02/08/1979 | Nationality Greek

WORK EXPERIENCE

July 2013 - Present

**CEO @ AMEN Technologies**

Terma Neapoleos & Patr. Grigoriou, Aghia Paraskevi 153 10, Athens Greece

[www.amen-technologies.com](http://www.amen-technologies.com)

Materials on demand for energy applications

Business or sector Start up company on materials science

January 2013 - Present

**Post –doc researcher**

Terma Neapoleos & Patr. Grigoriou, Aghia Paraskevi 153 10, Athens Greece

[www.inn.demokritos.gr](http://www.inn.demokritos.gr)

Thermoelectric materials, European Project “NEXTEC”  
 “Advanced Materials and Devices for Collection and Energy Management” project within GSRT’s KROPIS action, funded by Greece and the European Regional Development Fund of the European Union under NSRF 2007-2013 and the Regional Operational Program of Attica.”

January 2010 – December 2011

**Lab supervisor @ Institute for Solid Fuels Technology and Applications (ISFTA)**

4<sup>th</sup> km. Ptolemais-Mpodosakeio Hospital (Region of Kouri) - P.O. box 95 - 502 00 Ptolemaida, Greece

[www.lignite.gr](http://www.lignite.gr)

Chemical analyzer in Standard Chemical Laboratory. Responsible for the proper operation of all the laboratory equipment and their maintenance. Also responsible for the daily staff program and the good organization of the lab.

December 2004 – May 2005

**Office clerk @ Intertrade**

G. Karaiskaki 11, 502 00 Ptolemaida, Greece

To communicate and create cooperation with foreign companies for marketing of industrial equipment. Organized and managed secretarial and logistical documents. Coordinated secretarial support to the company

EDUCATION AND TRAINING

October 2004 – March 2011

**Hydrogen Storage Methods in Advanced Materials**

PhD

Department of Mechanical Engineering, University of Western Macedonia, 50 100 Kozani, Greece

Materials for hydrogen storage, x-ray analysis, scanning electron microscopy, Rietveld analysis, porosimeter

September 1998 – September 2003

**Environmental Management of Natural resources**

Bsc

University of Ioannina - Agrinio, Greece, Greece

PERSONAL SKILLS

Mother tongue(s) Greek

English	B		B		B
	C	C	C	B	

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills Listening, verbal communication, written communication  
 ▪ good communication skills gained through my experience as a phd candidate and post doc researcher through conferences and international meetings

Computer skills ECDL core, Certificate in Computer skills (Windows XP, Internet, Word, Excel, Power point, Access)  
RIETICA for Rietveld Analysis

Other skills Organized university lab and co-supervised dissertations in materials preparation and analysis

Driving licence ▪ B

## Publications

**Morphology, Microchemistry, Structural and Hydrogenation Characteristics of (Zr-Ti) (Cr-V-Ni)<sub>2</sub> Intermetallic Compounds**, A Ioannidou, S.S Makridis, ES Kikkinides, AK Stubos, M Gjoka, et al. (2015) J Nanosci Adv Tech 1(2): 17-29.

**“Microwave Synthesis and Characterization of the Series Co<sub>1-x</sub> Fe<sub>x</sub> Sb<sub>3</sub> High Temperature Thermoelectric Materials”**, A.A. Ioannidou, M. Rull, M. Martin-Gonzalez, A. Moure, A. Jacquot, and D. Niarchos, Journal of Electronic Materials, DOI:10.1007/s11664-014-3197-z

**“Lattice Thermal Conductivity in Nano- to Micro-scale Porous Materials”**, Roland H. Tarkhanyan, A. Ioannidou and Dimitris G. Niarchos, Metallurgical and Materials Transactions E Materials for Energy Systems, 2014, 10.1007/s40553-014-0014-9

**“Giant Thermoelectric Effect in Graded Micro-Nanoporous Materials”**, Niarchos, Dimitrios, Tarkhanayan, Roland, Ioannidou, Alexandra, MRS Proceedings, Volume 1543, 2013

**“Structural, Microchemistry, and Hydrogenation of TiMn<sub>0.4</sub>Fe<sub>0.2</sub>V<sub>0.4</sub>, TiMn<sub>0.1</sub>Fe<sub>0.2</sub>V<sub>0.7</sub> and Ti<sub>0.4</sub>Zr<sub>0.6</sub>Mn<sub>0.4</sub>Fe<sub>0.2</sub>V<sub>0.4</sub> Metal Hydrides”**, E.D. Kouloutoukis, S.S. Makridis, L. Röntzsch, E. Pavlidou, A. Ioannidou, E.S. Kikkinides, and A.K. Stubos, Journal of Nanoscience and Nanotechnology, 12, 4688–4696, 2012

**“Intermetallic Hydrides Based on (Zr-Ti)(Fe-Cr)<sub>2</sub> Type of Compounds”**, Sofoklis S. Makridis, C. Christodoulou, Mary Konstantakou, Th.A. Steriotis, M. Daniil, A. Ioannidou, E.S. Kikkinidis, Athanasios K. Stubos, Materials Science Forum V. 514-516, 2005

**“Structural and Magnetic Properties of New Zr(Fe<sub>0.8</sub>Cu<sub>0.2</sub>)<sub>2</sub> and Zr(Fe<sub>0.8</sub>Cu<sub>0.1</sub>Co<sub>0.1</sub>)<sub>2</sub> Hydrogen Storage Materials”**, Sofoklis S. Makridis, Mary Konstantakou, Th.A. Steriotis, Eleni Pavlidou, K.G. Efthimiadis, M. Daniil, A. Ioannidou, E.S. Kikkinidis, Athanasios K. Stubos, Materials Science Forum V. 514-516, 2005.

## Conferences

**“Structural and Hydrogenation Properties of Zr<sub>0.9</sub>Ti<sub>0.1</sub>Cr<sub>1.2-x</sub>V<sub>0.8</sub>Ni<sub>x</sub> (x=0, 0.4) Compounds”**, A. Ioannidou, S.S. Makridis, Erik Zupanič, Albert Prodan, E.S. Kikkinides, Athanasios K. Stubos, Materials Science Forum, Vols. 636-637, pp. 880-886, 2010.

**“Effect of V Substitution on the Composite Zr-Ti-Cr-V-Ni Intermetallic Hydrides”**, Sofoklis S. Makridis, A. Ioannidou, Erik Zupanič, Albert Prodan, E.S. Kikkinides, Athanasios K. Stubos Materials Science Forum, Vols. 636-637, pp. 887-894, 2010.

**The 31st International & 10th European Conference on Thermoelectrics**

**July 9<sup>th</sup>-12<sup>th</sup>, 2012, Aalborg, Denmark** “Rapid Microwave Synthesis and Characterization of Fe-doped CoSb<sub>3</sub> Thermoelectric Materials”

**19th International Conference on Magnetism (ICM 2012), July 8-13, 2012, Busan, Korea**

“Microwave Synthesis and Characterization of the series of Co<sub>4-x</sub>Fe<sub>x</sub>Sb<sub>12</sub> high temperature Thermoelectric Materials”

**7th International Conference on Surfaces, Coatings and Nano-Structured Materials:**

**NANOSMAT 18 -21 September 2012, Prague Czech Republic**, “Preparation and characterisation of nanocomposite AB<sub>2</sub>-type intermetallic compounds with improved hydrogen ability

A. Ioannidou, S.S. Makridis, A.K. Stubos, A. Lopez, J. Folch, G. Noriega

**5<sup>th</sup> International Developments in Materials, Processing and Applications of Emerging Technologies MPA Meeting, 27-29 June, Alvor, Portugal**

“Improvement of hydrogen ability in nanocomposite Zr-Ti-Cr-V-Ni intermetallic compounds”.

**5th International Conference on Surfaces, Coatings and Nanostructured Materials”,**

**NANOSMAT-5, 18-21 October 2010, Reims, France.**

“The effect of Ti substitution on the morphology, microchemistry, structural and hydrogenation characteristics of Zr<sub>1-x</sub>Ti<sub>x</sub>Cr<sub>1.2</sub>V<sub>0.8</sub> intermetallic compounds”.

**Materials 2009, Lisboa, April 5 – 8**

“Structural and hydrogenation properties of composite Zr<sub>0.9</sub>Ti<sub>0.1</sub>Cr<sub>1.2x</sub>V<sub>0.8</sub>Ni<sub>x</sub> (x=0, 0.4) compounds”.

**5th International Conference on Diffusion in Solids and Liquids - Mass Transfer, Heat Transfer,**

**Microstructure and Properties, Nanodiffusion and Nanostructured Materials (DSL2009), 24-26 June 2009 / Rome, Italy.**

“Influence of Additions in the Composite Mg<sub>2</sub>Ni/M (where M=TiB<sub>2</sub> or V) Metal Hydrides

**MH2008, Reykjavik, Iceland**

“Structural and Hydrogenation Properties of Composite Zr-Ti-Cr-(V,Ni) Compounds”.

**5<sup>th</sup>-ICM Ljubljana, Slovenia**

“Structural and electronic properties of some hydrogen storage intermetallic compounds”.