

**Athanasios K. Sfikas**  
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### **Academic Titles**

- Diploma of Materials Science Engineering, University of Ioannina, 9/2004-5/2010 (*Diploma Thesis: Development and Characterization of Al-Co Alloys*), Grade 7,4/10.
- Master of Science in Chemistry and Materials Technology, University of Ioannina, 11/2010-12/2012 (*Master Thesis: Surface Degradation of Al-Co Complex Metallic Alloys*).
- Doctor of Philosophy Candidate, University of Ioannina, 1/2013-Today, (*Ph.D Thesis: Alloys Based on Aluminum Complex Metallic Alloys- Development, Characterisation and Surface Properties*).

### **Academic and Research Experience**

- Research Assistant in Laboratory of Applied Metallurgy, University of Ioannina (*Corrosion Behavior of Al Alloys and Al Matrix Composites, HVOF Cermet Coatings, Stainless Steels, Fe-Al Intermetallic Compounds*), 4/2009-Today.
- Principle Researcher in “*Development and Characterisation of Crystalline and Amorphous Al Matrix Composites Reinforced with Ceramic Nanoparticles, by the Employment of Simple and Low Cost Techniques*”, Hellenic-Hungarian Partnership with the University of Miskolc (Physical Metallurgy Department), 5/2013-8/2014.
- Teaching Assistant, Undergraduate Course: “*Heat Treatment of Al Alloys*”, 1/2012-6/2012.

## Research Interests

- Development and Characterisation of Al Matrix Composites (Al-TiC, Al-WC).
- Development and Characterization of Al-Co Complex Metallic Alloys and Alloys that Contain Al-Co Complex Metallic Alloy Phases.
- Preparation of Alloys by Using Novel Preparation Techniques (Vacuum Arc Melting, Powder Metallurgy).
- Assessment of Corrosion Resistance of Metals/ Alloys by Electrochemical Techniques and Salt Spray Testing in Various Environments.
- Wear Resistance of Metals/ Alloys.

## Seminars

- Life-Long Learning, *“Entrepreneurship and Business Decisions”*, Department of Economics, University of Ioannina, 4/2012-9/2012

## Publications in Refereed Journals

- A. Lekatou, A. K. Sfikas, A. E. Karantzalis, D. Sioulas, *“Microstructure and Corrosion Performance of Al-32%Co Alloys”*, Corrosion Science, 2012, 63, 193-209

## Publications in International Conferences

- A. K. Sfikas, A. Lekatou, A. E. Karantzalis, D. Sioulas, *“Microstructure and Corrosion Resistance of Aluminum Alloys Containing Complex Metallic Alloys Phases”*, ICEAF-III, 3<sup>rd</sup> International Conference of Engineering Against Failure, Kos, 26-28 June 2013, Greece, p. 194-203, ISBN 978-960-88104-3-3.
- A. E. Karantzalis, A. Lekatou, A. Evangelou, V. Gousia, C. Miskaki, A. K. Sfikas, D. Sioulas, Z. Gacsi, P. Baumli, G. Kaptay, A. Makszimus, *“Microstructure, Corrosion and Wear Resistance Evaluation of Aluminum Matrix Composites Reinforced by TiC and WC Nanoparticles”*, ICEAF-III, 3<sup>rd</sup>

International Conference of Engineering Against Failure, Kos, 26-28 June 2013, Greece., p. 214-212, ISBN 978-960-88104-3-3.

## **Publications in National Conferences**

- A. K. Sfikas, A. Lekatou, A. E. Karantzalis, D. Sioulas, *“The Role of Complex Metallic Alloys in the Electrochemical Behavior of the Al-Co System”*, 5<sup>th</sup> Hellenic Conference in Metallic Materials, Volos, 21-22 November 2013
- A. Lekatou, A. Sfikas, A. E. Karantzalis, *“Effect of Heat Treatments on the Corrosion Resistance of Al-Co Alloys”*, 5<sup>th</sup> Hellenic Conference in Metallic Materials, Volos, 21-22 November 2013
- A. E. Karantzalis, A. Lekatou, X. Miskaki, A. Evangelou, V. Gousia, A. K. Sfikas, D. Sioulas, P. Baumli, Z. Gacsi, G. Kaptay, A. Simon, *Microstructure and Corrosion Behavior of Powder Metallurgy Prepared Al Matrix Composites Reinforced by TiC- WC*, 5<sup>th</sup> Hellenic Conference in Metallic Materials, Volos, 21-22 November 2013.
- A. K. Sfikas, A. Lekatou, A. E. Karantzalis, D. Sioulas, *“Development and Characterisation of an Al-Co Alloy”*, 4<sup>th</sup> Hellenic Conference in Metallic Materials, Thessaloniki, 4-5 November 2010, p. 369-375, ISBN 978-960-6865-31-2