

## **CURRICULUM VITAE**

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**STUDIES**: 1982 Metallurgy Engineering in the Department of Mining and Metallurgy Engineering of NTUA.

### **PROFESSIONAL BACKGROUND:**

2002- To day: Technical & Teaching supporting staff at Metallurgy Laboratory at Materials Engineering Department of University of Ioannina

1986-2002 Technical director at Epirus Foundries S.A.

1984-1986 Quality control director at Epirus Foundries S.A.

### **PUBLICATIONS** (papers at peer reviewed journals )

1. C. Mathiou, K. Giorspyros, E. Georgatis, A. E. Karantzalis\*. Microstructural verification of the theoretically predicted morphologies of the NiAl-Cr pseudo-binary alloy systems and NiAl-Cr eutectic structure modification by Mo addition. Springer Nature Applied Sciences. SN Applied Sciences (2019) 1:1292 DOI: 10.1007/s42452-019-1338-y
2. E. Ananiadis K. Lentzaris E. Georgatis C. Mathiou A. Poulia A. E. Karantzalis1: AlNiCrFeMn Equiatomic High Entropy Alloy: A Further Insight in Its Microstructural Evolution, Mechanical and Surface Degradation Response. Metals and Materials International <https://doi.org/10.1007/s12540-019-00401-4>
3. Anthoula Poulia, Emmanuel Georgatis, Alexander Karantzalis Evaluation of the Microstructural Aspects, Mechanical Properties and Dry Sliding Wear Response of MoTaNbVTi Refractory High Entropy. Alloy Metals and Materials International <https://doi.org/10.1007/s12540-019-00283-6>
4. K. Lentzaris, A. Poulia, E. Georgatis, A.G. Lekatou, A.E. Karantzalis Analysis of microstructure and sliding wear behavior of Co<sub>1.5</sub>CrFeNi<sub>1.5</sub>Ti<sub>0.5</sub> high entropy alloy. J. of Materials Engineering and Performance, doi.org/10.1007/s11665-018-3374-y
5. A. Poulia, E. Georgatis, C. Mathiou, A.E. Karantzalis Phase segregation discussion in a Hf<sub>25</sub>Zr<sub>30</sub>Ti<sub>20</sub>Nb<sub>15</sub>V<sub>10</sub> high entropy alloy: the effect of the high melting point element. Materials Chemistry and Physics (2017) DOI: 10.1016/j.matchemphys.2017.09.059

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7. E Karapanou, AG Lekatou, AK Sfikas, E Georgatis, K Lentzaris and AE Karantzalis (2017) Vacuum Arc Melting Processed Fe- Al Matrix Based Intermetallic Composites, Reinforced with VC Phases: Assessment of Microstructure, Sliding Wear and Aqueous Corrosion Response. Mater. Sci. Eng. Adv. Res Special Issue: 1-6. doi: <https://doi.org/10.24218/msear.2017.1S>
- 8.. Karantzalis AE\*, Poulia A\*, Georgatis E, Petroglou D and Mathiou C. New MoWHfZrTi Refractory High Entropy Alloy System: A Microstructural Verification of Phase Formation Criteria Approach. Research and Reports on Metals 2017, 1:2
9. A.E. Karantzalis\*, A. Poulia, E. Georgatis\*, D. Petroglou Phase Formation Criteria Assessment on the Microstructure of a New Refractory High Entropy Alloy. Scripta Materialia 131 (2017) 51–54
10. A.Poulia, E. Georgatis, A. Lekatou, A.E. Karantzalis\*, Dry-sliding wear response of MoTaWNbV high entropy alloy Advanced Engineering Materials, 2016, 18, DOI: [10.1002/adem.201600535](https://doi.org/10.1002/adem.201600535)
11. A.Poulia, E. Georgatis, A. Lekatou, A.E. Karantzalis\*, Microstructure and wear behavior of a refractory high entropy alloy. Int. Journal of Refractory Metals and Hard Materials, 2016, 57, p. 50-63
12. E. Georgatis, A. Lekatou, A.E. Karantzalis, H. Petropoulos, S. Katsamakis, and A. Poulia, “Development of a Cast Al-Mg<sub>2</sub>Si-Si In Situ Composite: Microstructure, Heat Treatment, and Mechanical Properties”, J. of Materials Engineering and Performance, March 2013, Volume 22, Issue 3, pp 729-741.
13. Karantzalis, A.E., Lekatou, E. Georgatis, E., Arni, Z., Dracopoulos, V., “Solidification observations of vacuum arc melting processed Fe-Al-TiC composites: TiC precipitation mechanisms”, Materials Characterization 62 (12) , 2011, pp. 1196-1204.
14. A.E. Karantzalis A. Lekatou M. Georgatis V. Poulas H. Mavros “Casting-Based Production of Al-TiC-AlB<sub>2</sub> Composite Material Through the Use of KBF<sub>4</sub> Salt”. Journal of Materials Engineering and Performance March 2011, Volume 20, Issue2 pp 198–202

15. A.E. Karantzalis, A. Lekatou\* , E. Georgatis, Th. Tsiligiannis, H. Mavros, “Solidification Observations of Dendritic Cast Al-alloys Reinforced with TiC particles”, J. Materials Engineering and Performance, 19 (9), 2010, pp. 1268-1275.
16. A.E. Karantzalis\* , A. Lekatou, E. Georgatis, V. Poulas, H. Mavros, “Microstructural observations of cast Al-Si-Cu-TiC composite material, J. Materials Engineering and Performance vol. 19, no.4, 2010, p. 585-590.
17. A.E. Karantzalis\* , A. Lekatou, E. Georgatis, H. Mavros, “Solidification behaviour of ceramic particle reinforced al – alloy matrices”, J. Materials Science, vol.45, no.8, 2010, p. 2165-2173.