



HELLENIC REPUBLIC

National and Kapodistrian
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EST. 1837



Nektarios Nasikas

Title: Assistant Professor

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Academic Qualifications:

- PhD in Materials Science, University of Patras, Department of Materials Science, 2012.
- MSc in Materials Science, University of Patras, Department of Materials Science, 2009.
- MSc in Banking and Financial Management, University of Piraeus, Department of Banking and Financial Management, 2020.
- BSc in Physics, University of Crete, Department of Physics, 2004.

Appointments:

- 2021 – Present: Assistant Professor, Hellenic Army Academy (Stratitiki Sholi Evelpidon) Division of Mathematics and Engineering Sciences.
- 2017 – 2021: Director (Founding), Hellenic Foundation for Research and Innovation (HFRI-EΛΙΔΕΚ).
- 2015 – 2017: Scientific Advisor to the Minister for Research and Innovation, Ministry of Education, Research and Religious Affairs.
- 2013 – 2014: Post-Doctoral Researcher, National Hellenic Research Foundation.
- 2012 – 2013: Post-Doctoral Researcher, Peter A. Rock Thermochemistry Laboratory, University of California, Davis, Davis CA, USA.
- 2007 – 2012: PhD researcher, Foundation for Research and Technology Hellas, Institute of Chemical Engineering Sciences, Patras, Greece.

Teaching Activities: (current)

Undergraduate courses: Ballistics (3rd year), Advanced Materials for Defence (3rd year), Materials Science and Engineering (4th year)

Postgraduate courses: Radar and Sonar absorbing metamaterials, Guided energy advanced weapons, Quality assurance of materials, Spectroscopic techniques for materials characterization.

Research Interests/Activities: (last 10 years)

- Amorphous materials
- High Temperature materials synthesis
- Armor materials
- Materials for defense applications
- Materials for energy applications
- 3D printing – Additive manufacturing
- Structure property relations of materials

Scientific Publications/Citations:

- More than 20 publications in international peer reviewed journals/More than 450 citations (Google scholar)

Top five publications

- N. K. Nasikas* “Secret of Hellenic Foundation’s success? Its staff” Nature, 660 (7890), 606 (2021)
*corresponding author
- N. K. Nasikas* and A. G. Kalampounias, “Deconvoluting interrelationships between low-energy vibrational modes and elastic properties in CaO–Al₂O₃ glasses” J. Amer. Ceram. Soc. 105 (10), 6128 – 6139 (2022)
*corresponding author
- N. K. Nasikas* and A.G. Kalampounias, “Compositional dependence of the boson peak and fractal dimensionality in Calcium Aluminate glasses prepared by aerodynamic levitation and CO₂-laser melting”, J. Phys. Chem. Solids, 164, 110621 (2022) *corresponding author
- A. Kostopoulou, K. Brintakis, N. K. Nasikas, E. Stratakis, “Perovskite nanocrystals for energy conversion and storage” Nanophotonics 8 (10), 1607 – 1640 (2019)
- I. Ibrahim, C. Athanasekou, G. Manolis, A. Kaltzoglou, N. K. Nasikas, F. Katsaros, E. Devlin, A. G. Kontos, P. Falaras “Photocatalysis as an advanced reaction process (ARP): The reduction of 4-nitrophenol using titania nanotubes – ferrite nanocomposites” J. Hazard. Mater. 372, 37 – 44 (2019)

Selected Distinctions:

- Full scholarship for PhD studies

Projects and Academic Activities:

- High temperature materials synthesis for defence applications
- Responsible for 300M euro for research projects carried out in the universities and research centers of the country
- Responsible for 5M euro for research projects receiving A from the ERC but were not funded.