

## DEPARTMENT OF PRODUCTS & SYSTEMS DESIGN ENGINEERING

### Personal Information:

DOMOPOULOU E. ASIMINA



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**Specialty/Position:** Chemist Ph.D. – Professor in the Department of Products & Systems Design Engineering at the Polytechnic School of Western Macedonia University, Greece.

**ABBREVIATED CURRICULUM VITAE:** Asimina Domopoulou is a faculty member in the Department of Product and Systems Design Engineering of the Polytechnic School of Western Macedonia University with the subject matter: “Materials Technology and Product Design with emphasis on Bioinorganic Compound Synthesis and Composite Materials Production with the management and utilization of Industrial and Agricultural waste.”

She obtained her degree in Chemistry from the Department of Chemistry, Faculty of Sciences of the University of Ioannina upon graduation in 1990. She was awarded a PhD in the Department of Chemistry of the Faculty of Sciences of the University of Ioannina in 1999 after successfully completing her doctoral thesis in the field of Inorganic and Analytical Chemistry.

Her research interests focus on the synthesis and analysis of inorganic and bioinorganic compounds, study and analysis of heavy metals, analysis and characterization of inorganic materials/nanomaterials, synthesis and study of advanced materials, physicochemical methods and waste management technologies, study of management of agricultural and industrial by-products and residues units, advanced oxidation methods and their use in materials technology, processing of industrial and agricultural waste under the framework of the circular economy, environmental studies and environmental education in formal education structures.

Her research work includes 21 publications in prestigious international scientific journals with a referee system, 7 publications in prestigious journals (Scholar Google Indexed), 2 publications of chapters in volumes of prestigious journals, 32 conference announcements/proceedings (with a referee system) and participation in the organization of meetings and conferences. These works number more than 560 citations and h-index =13 (Scopus) and i10-index=14 (Scopus).

### Publications 2017-2023

1. Vayos G. Karayannis, Konstantinos G. Moustakas, Apostolos N. Baklavaridis, Asimina E. Domopoulou, «Sustainable Ash-Based Geopolymers», Chemical Engineering Transactions, Vol. 63, pp. 505-510, 2018.
2. Asimina Domopoulou, Konstantinos Moustakas, Apostolos Baklavaridis, Nikolaos Koukouzas, Vayos Karayannis, «Wastewater treatment for reuse employing industrial by-products as alternative coagulants», Desalination and Water Treatment, 91, pp.55-63, 2017.
3. Vayos G. Karayannis, Hrissi K. Karapanagioti, Asimina E. Domopoulou, Dimitrios P. Komilis, «Stabilization/Solidification of Hazardous Metals from Solid Wastes into Ceramics», Waste Biomass Valorization, Vol. 8, pp.1863–1874, 2017.
4. V. Karayannis, A. Moutsatsou, A. Domopoulou, E. Katsika, C. Drossou, A. Baklavaridis, «Fired ceramics 100% from lignite fly ash and waste glass cullet mixtures», Journal of Building Engineering, Vol.14, (2017), pp. 1–6.
5. Vayos Karayannis, Stylianos Lamprakopoulos, Asimina Domopoulou, Panagiotis Kyratsis, George Papapolymerou and Xenofon Spiliotis, «Processing of Steel Mill Scale for Manufacturing novel Engineering Ceramics by Powder Metallurgy», Academic Journal of Manufacturing Engineering, Vol. 15, pp. 65-71, Issue 2, 2017.
6. V. G. Karayannis, A. K. Moutsatsou, A. N. Baklavaridis, E. L. Katsika, and A. E. Domopoulou, «Synergistic Sintering of Lignite Fly Ash and Steelmaking Residues towards Sustainable Compacted Ceramics», Hindawi, Advances in Materials Science and Engineering, Volume 2017, Article ID 1735268, 8 pages, 2017.

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7. Evangelia N. Lakioti, Konstantinos G. Moustakas, Dimitrios P. Komilis, Asimina E. Domopoulou, Vayos G. Karayannis, «Sustainable Solid Waste Management: Socio-economic Considerations», Chemical Engineering Transactions, Vol. 56, pp. 661-666, 2017.
  8. Vayos Karayannis Konstantinos Moustakas, Argyris Vatalis, Pavlos Sapalidis, Asimina Domopoulou, «Advanced oxidation of industrial effluents under microwave irradiation: state of the art», Desalination and Water Treatment, 91, pp.138-145, 2017.
  9. V. Karayannis, A. Domopoulou, E. Lakioti, A. Baklavaridis, G. Charalampides, «Environmental Research and Teaching in a University of Applied Sciences–Students’ Awareness», Ponte, International Journal of Sciences and Research, Vol. 73, No. 1, 9 pages, 2017.
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**Research  
Programmes  
2014-2023**

1. E.L.K.E. TEI of Western Macedonia – Strengthening of Research Groups of TEI of Western Macedonia entitled: Integrated management of liquid and solid waste from marble processing units. (2014)
  2. E.L.K.E. TEI of Western Macedonia – Strengthening of Research Groups of TEI of Western Macedonia entitled: Utilization of Industrial and Agricultural solid waste in ceramic materials. (2014)
  3. ARCHIMEDES III - Strengthening of Research Groups at the TEI of Western Macedonia of E.P. "Education and Lifelong Learning" entitled: Utilization of industrial and agricultural solid waste in ceramic materials. (2015)
  4. E.L.K.E. University of Western Macedonia - Strengthening of PDM Research Teams entitled: Air Quality Measurement in the Interior of Buildings of the University of Western Macedonia. (2019)
  5. Rural Development Program 2014 – 2020, Cooperation and Innovation Unit, PPA 2014-2020, Measure 16, Sub-measures 16.1-16.2 "Establishment and operation of Operational Groups of the European Innovation Partnership for the Productivity and Sustainability of Agriculture" of the Region of Western Macedonia with title: "Preservation of Cotton seed by the method of spraying with antifungal products", (2018-2025).
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