

## PERSONAL INFORMATION



**NAME & SURNAME:** ALEXANDRA V. MICHAILIDOU

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## OVERVIEW

Dr. Alexandra V. Michailidou graduated from the School of Mechanical Engineering of the Aristotle University of Thessaloniki (AUTH) in 2009. She was awarded a Doctorate in Mechanical Engineering by the same School in 2017. She has been a senior researcher in the Sustainability Engineering Laboratory (previous Laboratory of Heat Transfer and Environmental Engineering) of the School of Mechanical Engineering of the Aristotle University of Thessaloniki since 2011. She has also collaborated with the International Hellenic University as a lecturer, as an academic fellow and as a research associate in research projects. Dr. Alexandra V. Michailidou has participated in the management and implementation of 17 Greek- and EU-funded research projects of the Aristotle University of Thessaloniki, the National and Kapodistrian University of Athens and the International Hellenic University in the areas of atmospheric environment management, sustainability policies and environmental engineering.

## INDEXES

- Participation in funded research projects: **17**
- Publications in international peer-reviewed scientific journals: **22**
- Publications in scientific peer-reviewed conferences: **22**
- Scopus h-index: **11**
- Citations: **466**
- Average Impact Factor per publication: **6,78** (5-year)
- “Q1” (Scimago Journal & Country Rank) publications: **10/22**
- Maximum Impact Factor of journal publication: **17,551** (5-year impact factor)
- Journal publications as first author: **5**
- Journal publications as second author: **6**
- Supervision of MSc dissertations: **3**
- International scientific journals as reviewer: **8**
- Teaching courses (up to 2022): «**Project Management**» and «**Statistics II**» (Undergraduate courses, Department of Supply Chain Management, School of Economics and Business Administration, International Hellenic University), «**Climate Change and Energy Strategies**» (MSc in Environmental Management and Sustainability Programme, School of Science & Technology, International Hellenic University)
- Course Assistance (undergraduate courses of the School of Mechanical Engineering of Aristotle University of Thessaloniki): «**Heat Transfer**», «**Environmental Protection Engineering - Sustainability**», «**Environmental Management**»

## EDUCATION AND TRAINING

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- 11/2012 – 07/2017 **PhD in Mechanical Engineering**  
School of Mechanical Engineering, Faculty of Engineering, Aristotle University of Thessaloniki, Greece  
Grade Excellent  
PhD thesis: Methodological framework to holistically assess environmental impact from interventions aiming at tourism development
- 11/2012 – 07/2017 **Diploma in Mechanical Engineering (Equivalent to MSc)**  
School of Mechanical Engineering, Faculty of Engineering, Aristotle University of Thessaloniki, Greece  
Grade 7,07/10

## WORK EXPERIENCE

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- 08/2020 – 08/2023 **Project manager at Emisia S.A.**  
Antoni Tritsi 21, PO Box 8138, P.C.: GR 57 001, Thessaloniki, Greece  
<https://www.emisia.com>
- 11/2019 – 06/2020 **Academic Fellow at the Department of Supply Chain Management, School of Economics and Business Administration, International Hellenic University**  
10/2020 – 06/2021  
Kanellopoulou 2, P.C. 60100, Katerini, Greece  
<https://www.ihu.gr/tmimata/dioikisis-efodiastikis-alsidas>
- 05/2018 – 01/2019 **Lecturer of the course “Climate change and energy strategies” in MSc in Environmental Management and Sustainability Programme of the School of Science & Technology of the International Hellenic University**  
14<sup>th</sup> km Thessaloniki – N. Moudania , P.C. 57001, Themi, Greece  
<https://www.ihu.gr/ucips/postgraduate-programmes/ems>
- 01/2011 – 08/2023 **Senior Researcher at Sustainability Engineering Laboratory (pervious Laboratory of Heat Transfer and Environmental Engineering), School of Mechanical Engineering, Faculty of Engineering, Aristotle University of Thessaloniki**  
Building D, Faculty of Engineering, Aristotle University of Thessaloniki , Egnatia 154, P.C. 546 36, Thessaloniki, Greece  
<https://sel.meng.auth.gr>
- 10/2010 – today **Mechanical Engineer**  
Self-employed (R.N. in Technical Chamber of Greece 127381)

## PERSONAL SKILLS

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- Mother tongue **Greek**
- Other language(s) **English**  
Certificate of Proficiency in English (Michigan University) - (2000)  
Test of English as a Foreign Language (TOEFL iBT: 100/120) - (2010)  
Test of English as a Foreign Language (TOEFL iBT: 104/120) - (2018)
- German**  
Goethe-Zertifikat C1 (Goethe-Institut) - (2007)
- Certified by Aristotle University of Thessaloniki

- Computer skills**
- Excellent command of Windows and MicroSoft Office™
  - Basics of Fortran 90/95
  - Familiar with softwares:
    - OFIS, OSPM
    - COPERT-IV
    - SimaPro 8
    - ELECTRE-III και PROMETHEE-GAIA
    - AutoCad και SolidWorks
    - Ansys CFX
    - SPSS
- Other skills and competences**
- Reviewer for 8 international scientific journals:
    - Journal of Cleaner Production (Elsevier)
    - Science of the Total Environment (Elsevier)
    - Atmospheric Environment (Elsevier)
    - Tourism Management (Elsevier)
    - Environmental Science and Pollution Research (Springer Link)
    - Resources, Conservation & Recycling (Elsevier)
    - Environmental Impact Assessment Review (Elsevier)
    - Journal of Sustainable Tourism (Taylor & Francis)
  - Member of the Organizing Committee of the 12<sup>th</sup> EFITA-HAICTA-WCCA CONGRESS 2019
  - Member of the Organizing Committee of the 13<sup>th</sup> EFITA International Conference 2021

## ADDITIONAL INFORMATION

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- Memberships**
- Member of the Board of the Centre of Social Protection, Solidarity and Education of the Hellenic Municipality of Pilea-Hortiati, Thessaloniki, Greece (April 2013-September 2014)
  - Member of the Technical Chamber of Greece (October 2010-today)
  - Member of the alumni association of the Faculty of Engineering of the Aristotle University of Thessaloniki (November 2009-today)
- Social Work**
- Voluntary participation in the Organising Committee of Northern Greece of the “Ecomobility - Ecological transportation” program of the non-profit organisation “ECOCITY” (2010-2017)
  - Voluntary participation in the Organising Committee of Northern Greece of the “Free-mobility” program of the non-profit organisation “ECOCITY” (2014-2017)
- Honours and awards**
- Environmental Sensitivity Award “OIKOPOLIS 2012” in the category “Study of a Research Team” for the study “Measuring combined exposure to environmental pressures in urban areas: an air quality and noise pollution assessment approach” from the Hellenic non-profit environmental organisation ECOCITY (June 2012)
  - Second Prize of “New Engineer 2011” in the category of “Mechanical, Electrical and Chemical Engineers” for the diploma thesis “Design of a laboratory scale model for the study of aqueous humor in human eye” from the Technical Chamber of Greece / Section of Central Macedonia

## ANNEX

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- Participation in Research Projects
- List of publications in International Peer-Reviewed Scientific Journals

## ANNEX

### Participation in Funded Research Projects

#### European

1. Regional circular economy models and best available technologies for biological streams – BIOREGIO, Coordinator: Lahti University of Applied Sciences, Research Leader: AUTH – N. Moussiopoulos, Funded by: European Regional Development Fund ERDF through Interreg Europe Programme, 2017–2022
2. Evaluation, control and Mitigation of the EnviRonmental impacts of shipping Emissions, Coordinator: Ilmatieteen Laitos, Research Leader: AUTH – L. Ntziachristos, Funded by European Commission under HORIZON 2020, 2020-2024.
3. Revolutionizing disease and environmental detection with portable optoacousting sensing, Coordinator: Technische Universität München, Research Leader: AUTH – L. Ntziachristos, Funded by European Commission under FET, HORIZON 2020, 2020-2024.
4. Zero–waste energy–efficient agricultural communities in the GR–FYROM cross–border area, Coordinator: Municipality of Serres, Research Leader: AUTH – N. Moussiopoulos, Funded by Interreg IPA Cross Border Cooperation Programme "Greece – The former Yugoslav Republic of Macedonia 2014–2020", 2018–2020.
5. Alternative tourist strategies to enhance the local sustainable development of tourism by promoting Mediterranean Identity (ALTER ECO), Coordinator: Region Comunidad Valenciana: Valencian Institute of Building Foundation, Research Leader AUTH – N. Moussiopoulos, Funded by the European Regional Development Fund under Interreg Mediterranean programme (2014-2020), 2016-2019.
6. Metropolitan agriculture for developing an innovative, sustainable and responsible economy (MADRE), Coordinator: Agence des Villes et Territoires Méditerranéens Durables (AViTeM), Research Leader AUTH – N. Moussiopoulos, Funded by the European Commission under Interreg Mediterranean programme (2014-2020), 2017-2018.
7. Climate change adaption of the structural ceramic industry through the use of recycled glass as ceramic flux (CLAYGLASS), Coordinator: AITEMIN, Research Leader: AUTH - N. Moussiopoulos, Funded by: European Commission-Environment Directorate General, 2013-2016.
8. Photocatalytic remediation Processes on Air Quality (PhotoPAQ), Coordinator: Centre National de la Recherche Scientifique, Research Leader: AUTH – N. Moussiopoulos, Funded by European Commission under LIFE+ (2007-2013) programme, 2010-2014.
9. Particulates Monitoring, Modelling and Management (PM3), Coordinator: Department of Labour Inspection, Ministry of Labour and Social Insurance of the Republic of Cyprus, Research Leader: AUTH – N. Moussiopoulos, Funded by European Commission under LIFE+ (2007-2013) programme, 2011-2013.
10. Transport Related Air Pollution and Health impacts-Integrated Methodologies for Assessing Particulate Matter (TRANSPHORM), Coordinator: University of Hertfordshire, Research Leader: AUTH – N. Moussiopoulos, Funded by European Commission under FP7, 2010-2014.
11. The development of pay-as-you-throw systems in Hellas, Estonia, Cyprus (HEC-PAYT) Coordinator: AUTH – N. Moussiopoulos, Research Leader: AUT – N. Moussiopoulos, Funded by European Commission under LIFE+ (2007-2013), 2009-2011.
12. Megacities: Emissions, urban, regional and Global Atmospheric POLLution and climate effects, and Integrated tools for assessment and mitigation (MEGAPOLI), Coordinator: Danmarks Meteorologiske Institut, Research Leader: AUTH – N. Moussiopoulos, Funded by European Commission under FP7, 2008-2011.

#### National

1. Software development to estimate environmental impacts of agrifood products in real time and support certification schemes (FARMBENV), Coordinator: EFB S.A., Research Leader: C. Vlachokostas, Funded by Operational Programme of Region of Central Macedonia 2014-2020, 2020-2023
2. Digitalize art and cultural heritage for personal experience via innovative technologies (ARTECH), Coordinator: Teloglion Foundation of Art (Greece), Research Leader: AUT – N. Moussiopoulos, Funded by European Union and European Regional Development Fund (ERDF) under the Operational Program “Competitiveness, Entrepreneurship & Innovation” (EPAnEK) 2014-2020, 2020-2022
3. 3D-printed hydroponic applications from biodegradable and recycled materials with an emphasis on plants of particular interest to biodiversity. Coordinator: IHU – D. Tzetzis, Funded by Green Fund, 2020-2022
4. Platform for the collective empowerment of citizens for the participatory management of biomass waste and cooking oils from households. Coordinator: IHU – D. Aidonis, Funded by Green Fund, 2020-2022
5. Respiratory effects of ozone exposure in Greek children, Coordinator: Medical School, National and Kapodistrian University of Athens, Funded by General Secretariat of Research and Technology of Greece, National Strategic Reference Framework (NSRF) 2007-2013, 2012-2015

### Publications in International Peer-Reviewed Scientific Journals

1. Koltsakidis, S., Tsongas, K., Tzetzis, D., Achillas, Ch., **Michailidou, A.V.**, Vlachokostas, Ch., Efopoulos, V., Gkonos, V., Mousiopoulos, N. (2022). Towards an interactive virtual museum visit: The implementation of 3D scanning, virtual reality,

- and multimedia technologies in art exhibits conservation and virtual demonstrations. *Communications in Computer and Information Science Management*, 1582 CCIS, 220 – 226.
2. Vlachokostas, C., Achillas, C., Diamantis, V., **Michailidou, A.V.**, Baginetas, K., Aidonis, D. (2021). Supporting decision making to achieve circularity via a biodegradable waste-to-bioenergy and compost facility. *Journal of Environmental Management*, 285:112215. [JCR Impact Factor 8.91]
  3. Vlachokostas, C., **Michailidou, A.V.**, Achillas, C. (2021) Multi-Criteria Decision Analysis towards promoting Waste-to-Energy Management Strategies: A critical review. *Renewable and Sustainable Energy Reviews*, 138, Article number 110563. [JCR Impact Factor 16.799] 17.183
  4. Vlachokostas, C., Achillas, C., **Michailidou, A.V.**, Tsegas, G., Moussiopoulos, N. (2020). Externalities of energy sources: The operation of a municipal solid waste-to-energy incineration facility in the greater Thessaloniki area, Greece. *Waste Management*, 113, 351-358. [JCR Impact Factor 7.145]
  5. Vlachokostas, C., Achillas, C., Agnantiaris, I., **Michailidou, A.V.**, Pallas, C., Feleki, E., Moussiopoulos, N. (2020). Decision Support System to Implement Units of Alternative Biowaste Treatment for Producing Bioenergy and Boosting Local Bioeconomy. *Energies*, 13, 2306. [JCR Impact Factor 3.002]
  6. Feleki, E., Achillas, C., Vlachokostas, C., **Michailidou, A.V.**, Ortega, L., Moussiopoulos, N. (2018). Preservation of the mediterranean identity: An intra-city analysis towards a macro-regional approach for the characterisation of urban sustainability. *Sustainability*, 10 (10), art. no. 3551. [JCR Impact Factor 2.592]
  7. Vlachokostas, Ch., **Michailidou, A.V.**, Feleki, E., Achillas, Ch., Moussiopoulos, N., & Trasanidis, O. (2017). A holistic methodological approach in the urban context towards characterizing the environmental performance of buildings and promoting strategic governance and sustainability. *Procedia Environmental Sciences*, 38 (C), 571-577.
  8. **Michailidou, A.V.**, Vlachokostas, Ch., & Moussiopoulos, N. (2016). Interactions between climate change and the tourism sector: Multiple-criteria decision analysis to assess mitigation and adaptation options in tourism areas. *Tourism Management*, 55, 1-12. [JCR Impact Factor 4.707]
  9. **Michailidou, A.V.**, Vlachokostas, Ch., Moussiopoulos, N., & Maleka, D. (2016). Life Cycle Thinking used for assessing the environmental impacts of tourism activity for a Greek tourism destination. *Journal of Cleaner Production*, 111 (Part B), 499-510. [JCR Impact Factor 5.715]
  10. **Michailidou, A.V.**, Vlachokostas, C., Achillas, C., Maleka, D., Moussiopoulos, N., & Feleki, E. (2016). Green tourism supply chain management based on life cycle impact assessment. *European Journal of Environmental Sciences*, 6 (1), 30-36.
  11. Feleki, E., Vlachokostas, C., Achillas, C., Moussiopoulos, N., & **Michailidou, A.V.** (2016). Involving decision-makers in the transformation of results into urban sustainability policies. *European Journal of Environmental Sciences*, 6 (1), 7-10.
  12. **Michailidou, A.V.**, Vlachokostas, C., & Moussiopoulos, N. (2015). A methodology to assess the overall environmental pressure attributed to tourism areas: A combined approach for typical all-sized hotels in Chalkidiki, Greece. *Ecological Indicators*, 50, 108-119. [JCR Impact Factor 3.19]
  13. Spyridi, D., Vlachokostas, Ch., **Michailidou, A.V.**, Moussiopoulos, N., & Sioutas, C. (2015). Strategic planning for climate change mitigation and adaptation: the case of Greece. *International Journal of Climate Change Strategies and Management*, 7 (3), 272-289. [JCR Impact Factor 0.708]
  14. Popescu, A., Panaite, E.-C., Lupu, A.G., Atanasiu, M., Vlachokostas, C., & **Michailidou, A.** (2014). Self-sustained, Independent trifold solar energy conversion system for isolated locations in hot climate areas. *Applied Mechanics and Materials*, 659, 421-424.
  15. Vlachokostas, Ch., **Michailidou, A.V.**, Matziris, E., Achillas, Ch., & Moussiopoulos, N. (2014). A multiple criteria decision-making approach to put forward tree species in urban environment. *Urban Climate*, 10 (Part 1), 105-118.
  16. Vlachokostas, Ch., **Michailidou, A.V.**, Spyridi, D., & Moussiopoulos, N. (2013). Bridging the gap between traffic generated health stressors in urban areas: Predicting xylene levels in EU cities. *Environmental Pollution*, 180, 251-258. [JCR Impact Factor 3.902]
  17. Vlachokostas, Ch., **Michailidou, A.V.**, Spyridi, D., & Moussiopoulos, N. (2013). Building statistical associations to forecast ethylbenzene levels in European urban traffic environments. *Environmental Pollution*, 177, 125-134. [JCR Impact Factor 3.902]
  18. Vlachokostas, Ch., **Michailidou, A.V.**, Athanasiadis, A., & Moussiopoulos, N. (2013). Synergies between environmental pressures in the urban climate: combined air quality and noise exposure assessment in Thessaloniki, Greece. *Global NEST journal*, 15 (2), 209-217. [JCR Impact Factor 0.792]
  19. Vlachokostas, Ch., Chourdakis, E., **Michailidou, A.V.**, Moussiopoulos, N., Kelessis, A., & Petrakakis, M. (2012). Establishing relationships between chemical health stressors in urban traffic environments: prediction of toluene concentration levels in European cities. *Atmospheric Environment*, 55, 299-310. [JCR Impact Factor 3.11]
  20. Moussiopoulos, N., Baniyas, G., Douros, J., **Michailidou, A.V.**, & Tsegas, G. (2012). Emission estimates and air quality impacts from the use of alternative fuels by the TITAN cement factory in Thessaloniki. *Global NEST journal*, 14 (2), 218-224. [JCR Impact Factor 0.698]
  21. Vlachokostas, Ch., Achillas, Ch., **Michailidou, A.V.**, & Moussiopoulos, N. (2012). Measuring combined exposure to environmental pressures in urban areas: An air quality and noise pollution assessment approach. *Environment International*, 39 (1), 8-18. [JCR Impact Factor 6.248]
  22. **Michailidou, A.V.**, Chatzi, P., Kalozoumis, P.G., Kalfas, A.I., Pappa, M., Tsiafis, I., Konstantinidis, E.I., Bamidis, P.D. (2010). A laboratory scale facility for the parametric characterization of the intraocular pressure of the human eye. *IFMBE Proceedings*, 29, pp. 442 – 445.