



Europass Curriculum Vitae

**Dr. Irene Voukkali
Food Scientist (M.Sc) –
Environmental Engineer (M.Eng)**

April 2024

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Extended Abstract

I am Lecturer at the Open University of Cyprus in the scientific area of “Green Entrepreneurship and Growth or Cities with Climate Resilience, Urban Metabolism or Bio-economy or European Green Deal. I have studied Food Science in Aristotle University of Thessaloniki (2003-2009) and I hold two Master of Science, one in Food Science (2008) from the Aristotle University of Thessaloniki and the second in M.Eng in Environmental Engineer (2016) from University of Cyprus. Furthermore, I hold from 2021 a PhD in the scientific area of Urban Metabolism from Open University of Cyprus. My PhD title was “Urban Metabolism: Prospects and Challenges”.

I have published (until now) **52 scientific papers** in high impacted factor journals (i.e Journal of Cleaner Production, Science of the Total Environment, Waste Management, Waste Management and Research, Environmental Science and Pollution Research, Sustainability, etc), as well as I have **more than 70 presentations in International and National Conferences**. In addition, I have written **10 chapters for 7 scientific Books**, and at the same time, I am one of the reviewers of more than 5 scientific journals (which belong to ELSEVIER, Springer, MDPI etc). All those provided some personal achievements as **My Google Scholar h-index is 23** and the Google Scholar i10-index is 32 with more than 1495 citations.

For more than 12 years, I was acting as a Consulting Engineer on behalf for several Industrial Activities (including international industries) and Governmental and Local Authorities like: Cement Company, Bakeries And Confectioneries, Machinery Industry – Formation of Equipment, Winery, Metal Distribution Industry, Thematic Parks (Water Park, Play Grounds, Entertainment Parks), Contractors Companies, Cement Products, Animal Feed Industry, Chemical Products, Olive Oil Industries, Hotels and Tourist Activities, Caw-Poultry Farms, Slaughterhouse, Food Industries, Flour Industry, Renewable Energy Parks, Hospital and Medical Activities, Waste water treatment plants, etc. **Main responsibilities** were the development of Strategic Planning, Zero Waste approach, Sustainable Development, Environmental Science / Management, Treatment and Management of Solid - Liquid Waste including water, Environmental Impact and Risk Assessment Analysis, Life Cycle Analysis, Multi Criteria Analysis, Training, SWOT-PESTEL analysis, ISO 14001-EMAS, ISO 9001 etc.

From 2013 until today I am the Secretary of Cyprus Environmental Engineers Council.

I have been appointment from the Presidential Palace of Cyprus Government to design and to establish the EMAS (Ecological Management Audit Scheme) on 2017 (Cyprus Presidential House is the first one in entire EU that has hold a validated EMAS certification after verification).

I hold accreditation as Environmental Auditor (Lead Auditor of ISO 14001/EMAS), Quality Control Auditor (Lead Auditor ISO 9001, ISO 19011) and I am Health and Safety Auditor (Accreditation - OHSAS 18001). Moreover, I hold accreditation from Human Resource Development of Cyprus Government as Train the Trainers.

My research background includes more than on 15 years of experience in the following subjects (can be used also as Keywords):

- i) City metabolism, Key Performed Indicators
- ii) Strategic planning development, zero waste approach, waste prevention, Food Waste etc
- iii) Waste minimization monitoring and evaluation,
- iv) Sustainable development programs (with emphasis on the environmental dimensions)
- v) Management of solid waste, Tourist activities, coastal Environment
- vi) Water footprint, Environmental Footprint
- vii) Environmental Impact and Environmental Risk Assessment Analysis / multi criteria analysis models / LCA / SWOT-PESTEL analysis, EMAS, ISO 14001,



Europass Curriculum Vitae

Personal information

First name / Surname

Voukkali Irene

Address

1st April 109, 5280 Paralimni, Cyprus

Work Address

Antoni Papadopoulou 9, P.O.Box 34073, 5309, Paralimni, Cyprus

Telephone

+357-23743440

Mobile: +357-99978605

Fax

E-mail

voukkei@yahoo.com

Nationality

Greek-Cypriot

Date of birth

16 October 1985

Gender

Female

Status

Single

Education and training

Dates

2016-2021

Title of qualification awarded

Ph.D Thesis in the scientific area of Environmental Engineering

Principal subjects/occupational skills covered

Urban metabolism, Urban Analysis. Urbanization, Energy Analysis, Material Flow Analysis, Ecological Footprint Analysis, SWOT Analysis, Waste Compositional Analysis, Particulate Matter (PM) emissions, Key Performance Indicators, Multicriteria Analysis, DPSIR model, etc.

Name and type of organisation providing education and training

PhD Thesis – Urban Metabolism: Prospects and Challenges

Cyprus Open University
Giannou Kranidioti 33, Latsia 2220

Dates

2011-2014

Title of qualification awarded

Master in Environmental Engineering

Principal subjects/occupational skills covered

Waste Management, Solid waste, Water Waste, Air pollution, Environmental Risk Assessment, Climate Change, Renewable energy sources, Sustainable Development, Energy efficiency, porous material, Soil, Soil surfactant, Coal tar

Name and type of organisation providing education and training

Dissertation Thesis: Coal tar recovery using surfactants

University of Cyprus
Kallipoleos 75, Nicosia 1678

Dates

2003-2008

Title of qualification awarded

Degree and Master Agronomist – Food Scientist











Principal subjects/occupational skills covered

Food Science, Milk Technology, Food Processing and Engineering, Microbiology and Food Hygiene, Food Chemistry and Biochemistry, Food Physicochemistry, Analytical Chemistry, Food packaging, Quality Control, Hazard Analysis Critical Control Point, Molecular Biology in Food Science

Name and type of organisation providing education and training

Aristotle University of Thessaloniki - School of Agriculture
<http://www.auth.gr>

Work experience

| | |
|--------------------------------------|---|
| Dates | 1/9/2022- |
| Occupation or position held | Lecturer at Open University of Cyprus in the scientific area of "Green Entrepreneurship and Growth or Cities with Climate Resilience, Urban Metabolism or Bio-economy or European Green Deal" |
| Name and address of employer | Faculty of Pure and Applied Science, Environmental Conservation and Management Open University of Cyprus |
| Type of business or sector | University |
| Dates | 2009- 2022 |
| Occupation or position held | Environmental Business Consultant |
| Name and address of employer | EnviTech Ltd (Institute of Envrinonmental Tecnology & Sustainable Development) |
| Main Activities and Responsibilities | <ul style="list-style-type: none">  Environmental Science  Treatment and/or Management of Solid  Energy  Environmental Impact, Risk Assessment Analysis, LCA, Multi Criteria Analysis  Waste Management  Strategic Planning Development, Zero Waste approach, Sustainable Development  Training  City and Urban Area Metabolism  Local Authorities – Cyprus Ministries  European Research Projects (i.e LIFE, HORIZON, etc) |
| Type of business or sector | Consultants Engineer and Research Institute |

Personal skills and competences

Mother tongue

Greek

Other languages

English

Self-assessment

European level

| Understanding | | Speaking | | Writing |
|---------------|-----------|--------------------|-------------------|-----------|
| Listening | Reading | Spoken interaction | Spoken production | |
| Very Good | Very Good | Very Good | Very Good | Very Good |
| ✓ | ✓ | ✓ | ✓ | ✓ |

Holder degree in IGCSE

Computer's skills: Microsoft office: Word, Excel, Power Point, etc

Knowledge of Software programmes: Life Cycle Assessment (LCA), Statistical Package for the Social Sciences (SPSS 2), Risk Assessment, Multi - criteria analysis

Organisational skills and competences

2013-Today: I am the Secretary of the Environmental Scientist and Engineer Council in Cyprus.

Very good organizational, administrative and communication skills

Hard-working and co-operative person with adaptable abilities in the working and social environment.

Participation in Many Voluntarism activities (Social and Environmental)

Management Skills due to my involvement in several management groups, leading and guidance several teams in the EU, due to my professional experience on behalf of leading SMEs, NGOs all those years etc.

Collaboration spirits in several teams (academic teams, industrial teams, experimental, social etc).

Additional information / Accreditations

2016 Health and Safety Auditor / Consultant (Accreditation) from the Ministry of Labour Inspection Cyprus

2015: Accreditation Train the Trainer from Human Resource Department from Cyprus Government

2013: OSHAS Auditor (Lead Auditor of OSHAS 18001- ISO 19011-2011) Cyprus Certification Company – International Register Certification Auditor (IRCA)

2010: Quality Management Lead Auditor (Lead Auditor of ISO 9001 - ISO 19011-2011) Cyprus Certification Company – International Register Certification Auditor (IRCA)

2010: Environmental Auditor (Lead Auditor of ISO 14001 - ISO 19011-2011) Cyprus Certification Company – International Register Certification Auditor (IRCA)

Additional information




Chapters in Books -C.B

| | Author(s) / Title | Year |
|--------|---|------|
| C.D 10 | Book Title: «Planet Earth: Scientific Proposals to Solve Urgent Issues» Chapter Title: «The Impact of Food Overproduction on Soil: Perspectives and Future Trends» Authors: F. Economou, I. Papamichael, T. Rodríguez-Espinosa, I. Voukkali, A. Pérez-Gimeno, A.A. Zorpas & J. Navarro-Pedreño Status: Published pp 263-292 Editors: Núñez-Delgado, A. e-ISBN: 978-3-031-53208-5 ISBN: 978-3-031-53207-8 Publisher: Springer Web: DOI: https://doi.org/10.1007/978-3-031-53208-5_12 | 2024 |
| C.B 9 | Book Title: «Sustainable Manufacturing Practices in the Textiles and Fashion Sector » Chapter Title: «The Awakening of an Environmental-Conscious Fashion Era» Authors: Papamichael, I., Voukkali, I <i>et al.</i> Status: Published pp 103-141 Editors: Muthu, S.S e-ISBN: 978-3-031-51362-6 ISBN: 978-3-031-51361-9 Publisher: Springer Web: DOI: https://doi.org/10.1007/978-3-031-51362-6_6 | 2024 |
| C.B 8 | Book Title: «Municipal Solid Waste Management» Chapter Title: «The Use of Composted Municipal Solid Waste under the Concept of Circular Economy and as a Source of Plant Nutrients and Pollutants» Authors: Ma Belén Almendro-Candel, Jose Navarro-Pedreño, Ignacio Gómez, Antonis Zorpas, Irene Voukkali, Pantelitsa Loizia Status: Published pp 1-18 Editors: Hosam El-Din M. Saleh e-ISBN: ISBN: Publisher: Intech Open Web: https://www.intechopen.com/books DOI: http://dx.doi.org/10.5772/intechopen.83386 | 2019 |
| C.B 7 | Book Title: «Sustainable Economic Development: Green Economy & Green Growth» Chapter Title: «Socio Economy Impact in Relation to Waste Prevention» Authors: Zorpas A.A., Voukkali I., Loizia, P. Status: Published 31-48 Editors: Walter Leal Filho (Germany), Diana Mihaela Pociovalisteanu (Romania) and Abul Quasem Al-Amin (Malaysia) e-ISBN: ISBN: Publisher: Springer, Web: http://www.springer.com/series/13384?detailsPage=titles (world Sustainability Series) | 2017 |

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| C.B 6 | <p>Book Title: «Phytoremediation: Management of Environmental Contaminants, Volume 3&4»</p> <p>Chapter Title: «Proposed Rehabilitation method of uncontrolled landfills in insular communities through multi criteria analysis decision tool»</p> <p>Authors: Zorpas A.A., Phinekettou V., Voukkali I.</p> <p>Status: Published, pp 365-384</p> <p>Editors: Abid Ali Alsari, Sarvajeet Singh Gill, Ritu Gill, Guy R. Lanza, Lee Newman</p> <p>e-ISBN: 978-3-319-41811-7</p> <p>ISBN : 978-3-319-41810-0</p> <p>DOI: 10.1007/978-3-319-41811-7</p> <p>Publisher: Springer</p> | 2016 |
| C.B 5 | <p>Book Title: «Sustainability Behind Sustainability»</p> <p>Chapter Title: "Definitions of Sustainability"</p> <p>Authors: Voukkali I., Loizia P., Zorpas A.</p> <p>Status: Published on September, pp 1-6</p> <p>Editor: Antonis A. Zorpas</p> <p>e-ISBN: 978-1-63321-595-5</p> <p>ISBN : 978-1-63321-573-3</p> <p>Publisher: Nova Science Publishers Inc, Editor in Chief Frank Columbus Nova Science, 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788, Tel: 631- 231-7269 Fax: 631-231-8175, Mobile (direct): 631-741-2210, Email:novapublishers@earthlink.net, Novasci1@aol.com, Web:www.novapublishers.com</p> | 2014 |
| C.B 4 | <p>Book Title: «Sustainability Behind Sustainability»</p> <p>Chapter Title: "Policies and Legislation"</p> <p>Authors: Voukkali I., Loizia P.</p> <p>Status: Published on September, pp 7-16</p> <p>Editor: Antonis A. Zorpas</p> <p>e-ISBN: 978-1-63321-595-5</p> <p>ISBN : 978-1-63321-573-3</p> <p>Publisher: Nova Science Publishers Inc, Editor in Chief Frank Columbus Nova Science, 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788, Tel: 631- 231-7269 Fax: 631-231-8175, Mobile (direct): 631-741-2210, Email:novapublishers@earthlink.net, Novasci1@aol.com, Web:www.novapublishers.com</p> | 2014 |
| C.B 3 | <p>Book Title: «Sustainability Behind Sustainability»</p> <p>Chapter Title: «Tourism Development Through Sustainability»</p> <p>Authors: Zorpas A.A., Lasaridi, K., Voukkali I</p> <p>Status: Published on September pp 319-344</p> <p>Editos: Antonis A. Zorpas</p> <p>e-ISBN: 978-1-63321-595-5</p> <p>ISBN : 978-1-63321-573-3</p> <p>Publisher: Nova Science Publishers Inc, Editor in Chief Frank Columbus Nova Science, 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788, Tel: 631- 231-7269 Fax: 631-231-8175, Mobile (direct): 631-741-2210, Email:novapublishers@earthlink.net, Novasci1@aol.com, Web:www.novapublishers.com</p> | 2014 |
| C.B 2 | <p>Book Title: «Sustainability Behind Sustainability»</p> <p>Chapter Title: «Business behind Sustainability»</p> <p>Authors: Zorpas A.A., Voukkali I., Inglezakis J.V</p> <p>Status: Published on September, pp 45-72</p> <p>Editos: Antonis A. Zorpas</p> <p>e-ISBN: 978-1-63321-595-5</p> <p>ISBN : 978-1-63321-573-3</p> <p>Publisher: Nova Science Publishers Inc, Editor in Chief Frank Columbus Nova Science, 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788, Tel: 631- 231-7269 Fax: 631-231-8175, Mobile (direct): 631-741-2210, Email:novapublishers@earthlink.net, Novasci1@aol.com, Web:www.novapublishers.com</p> | 2014 |

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| C.B 1 | <p>Book Title: «Sludge Management: From the past to our century »</p> <p>Chapter Title: "Ocean Dumping. AN old and Known sewage sludge methods"</p> <p>Authors: A.A. Zorpas, I. Voukkali</p> <p>Status: Published, pp 265-296</p> <p>Editors: Antonis A. Zorpas, Vassilis J Inglezakis</p> <p>ISBN: 978-1-61324-393-0</p> <p>Publisher: Nova Science Publishers Inc, Editor in Chief Frank Columbus Nova Science, 400 Oser Avenue, Suite 1600, Hauppauge, NY 11788, Tel: 631- 231-7269 Fax: 631-231-8175, Mobile (direct): 631-741-2210, Email: novapublishers@earthlink.net, Novasci1@aol.com, Web: www.novapublishers.com</p> | 2012 |
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Statistical Analysis- Personal Achievements

 Google Scholar h-index 23
 Google Scholar i10-index 32
 Google Scholar Citations 1495

| | Author (s) / Title' | Year |
|-------|---|------|
| J 52. | Phinikettou V, Papamichael I, Voukkali I , Zorpas AA. (2024). Comparison of Methodologies for Microplastic Isolation through Multicriteria Analysis (AHP). Microplastics . 3(1):184-204. https://doi.org/10.3390/microplastics3010011 | 2024 |
| J 51. | Economou F, Chatziparaskeva G, Papamichael I, Voukkali, I , et al. The concept of food waste and food loss prevention and measuring tools (2024). Waste Management & Research . 0(0). doi: 10.1177/0734242X241237187 | 2024 |
| J 50. | Marinos Stylianou, Panagiotis Shiakallis, Iliana Papamichael, Irene Voukkali , Antonis A. Zorpas, Analyzing the SWOT of circular economy development in established industrial zones: A case study from Cyprus (2024), Sustainable Chemistry and Pharmacy , 39, 101513, ISSN 2352-5541, https://doi.org/10.1016/j.scp.2024.101513 . | 2024 |
| J 49. | Iliana Papamichael, Irene Voukkali , Florentios Economou, Pantelitsa Loizia, Giorgos Demetriou, Mark Esposito, Vincenzo Naddeo, Marco Ciro Liscio, Paolo Sospiro, Antonis A. Zorpas (2024). Mobilisation of textile waste to recover high added value products and energy for the transition to circular economy, Environmental Research , 242, 117716, ISSN 0013-9351, https://doi.org/10.1016/j.envres.2023.117716 . | 2024 |
| J 48 | Irene Voukkali , Iliana Papamichael, Florentios Economou, Pantelitsa Loizia, Eleftheria Klontza, Demetris F. Lekkas, Vincenzo Naddeo, Antonis A. Zorpas (2023) Factors affecting social attitude and behavior for the transition towards a circular economy, Sustainable Chemistry and Pharmacy , 36, 101276, https://doi.org/10.1016/j.scp.2023.101276 . | 2023 |
| J 47. | Papamichael I, Voukkali I , Loizia P, Zorpas AA. (2023). Construction and demolition waste framework of circular economy: A mini review. Waste Management & Research 41(12):1728-1740 doi:10.1177/0734242X231190804 | 2023 |
| J 46. | Voukkali I , Papamichael I, Loizia P, Rodríguez-Espinosa T., Navarro-Pedreño J, Zorpas A.. (2023). Waste metrics in the framework of circular economy. Waste Management & Research 41(12):1741-1753 doi:10.1177/0734242X231190794 | 2023 |
| J 45. | Irene Voukkali , Iliana Papamichael, Pantelitsa Loizia, Antonis A. Zorpas (2023). The importance of KPIs to calibrate waste strategy in hospitality sector, Energy Nexus , 11, 100211,ISSN 2772-4271, https://doi.org/10.1016/j.nexus.2023.100211 . | 2023 |
| J 44. | Vardopoulos, I.; Ioannides, S.; Georgiou, M.; Voukkali, I. ; Salvati, L.; Doukas, Y.E. (2023). Shaping Sustainable Cities: A Long-Term GIS-Emanated Spatial Analysis of Settlement Growth and Planning in a Coastal Mediterranean European City. Sustainability 15, 11202. https://doi.org/10.3390/su151411202 | 2023 |
| J 43. | Florentios Economou, Iliana Papamichael, Irene Voukkali , Pantelitsa Loizia, Eleftheria Klontza, Demetris F. Lekkas, Naddeo Vincenzo, Giorgos Demetriou, Jose Navarro-Pedreño, Antonis A. Zorpas (2023). Life cycle assessment of potato production in insular communities under subtropical climatic conditions. Case Studies in Chemical and Environmental Engineering , 8, 100419, https://doi.org/10.1016/j.csee.2023.100419 . | 2023 |

- J 42. Ali, S.M.; Appolloni, A.; Cavallaro, F.; D'Adamo, I.; Di Vaio, A.; Ferella, F.; Gastaldi, M.; Ikram, M.; Kumar, N.M.; Martin, M.A.; **Voukkali I.**; et al. (2023). Development Goals towards Sustainability. **Sustainability** 15, 9443. <https://doi.org/10.3390/su15129443> 2023
- J 41. Stylianou, M.; Papamichael, I.; **Voukkali, I.**; Tsangas, M.; Omirou, M.; Ioannides, I.M.; Zorpas, A.A. (2023). LCA of Barley Production: A Case Study from Cyprus. **Int. J. Environ. Res. Public Health** 20, 2417. <https://doi.org/10.3390/ijerph20032417> 2023
- J 40. Teresa Rodríguez-Espinosa, Iliana Papamichael, **Irene Voukkali**, Ana Pérez Gimeno, María Belén Almendro Candel, Jose Navarro-Pedreño, Antonis A. Zorpas, Ignacio Gómez Lucas. (2023). Nitrogen management in farming systems under the use of agricultural wastes and circular economy. **Science of The Total Environment**, 876, 162666. <https://doi.org/10.1016/j.scitotenv.2023.162666>. 2023
- J 39. **Voukkali, I.**, Papamichael, I., Loizia, P., Zorpas A. (2023). Urbanization and solid waste production: prospects and challenges. **Environ Sci Pollut Res** <https://doi.org/10.1007/s11356-023-27670-2> 2023
- J 38. Papamichael, I., **Voukkali, I.**, Loizia, P., Rodríguez-Espinosa, T., Pedreño, J.N. and Zorpas, A.A. (2023), "Textile waste in the concept of circularity", **Sustainable Chemistry and Pharmacy**, 32, 100993, doi: <https://doi.org/10.1016/j.scp.2023.100993>. 2023
- J 37. Papamichael, I., **Voukkali, I.**, Loizia, P., Pappas, G. and Zorpas, A.A. (2023), "Existing tools used in the framework of environmental performance", **Sustainable Chemistry and Pharmacy**, 32, 101026, doi: <https://doi.org/10.1016/j.scp.2023.101026>. 2023
- J 36. Papamichael, I., Chatziparaskeva, G., **Voukkali, I.**, Navarro Pedreno, J., Jeguirim, M. and Zorpas, A.A. (2023), "The perception of circular economy in the framework of fashion industry", **Waste Management & Research**, 0734242X221126435, doi: 10.1177/0734242X221126435 2023
- J 35. Papamichael, I., **Voukkali, I.** and Zorpas, A.A. (2022), "Mediterranean: main environmental issues and concerns", **Euro-Mediterranean Journal for Environmental Integration**, 7 (4), 477–481, doi: 10.1007/s41207-022-00336-0. 2022
- J 34. Papamichael, I., Chatziparaskeva, G., Pedreno, J.N., **Voukkali, I.**, Almendro Candel, M.B. and Zorpas, A.A. (2022), "Building a new mind set in tomorrow fashion development through circular strategy models in the framework of waste management", **Current Opinion in Green and Sustainable Chemistry**, p. 100638, doi: 10.1016/j.cogsc.2022.100638. 2022
- J 33. Iliana Papamichael, Irene Voukkali, Mejdí Jeguirim, Nikolaos Argiris, Salah Jellali, Georgia Sourkouni, Christos Argiris, Antonis A. Zorpas "End-of-Life management and recycling on PV solar energy production". **Energies**, 2022, 15(17), 6430; <https://doi.org/10.3390/en15176430> 2022
- J 32. Georgia Chatziparaskeva, Iliana Papamichael, **Irene Voukkali**, Pantelitsa Loizia, Georgia Sourkouni, Christos Argiris, Antonis A. Zorpas. (2022). «End-of-life of composite materials in the framework of Circular Economy», **Microplastics**, 1, 377–392. <https://doi.org/10.3390/microplastics1030028> 2022
- J 31. Filippou Eliades, Maria K. Doula, Iliana Papamichael, Ioannis Vardopoulos, **Irene Voukkali**, Antonis A. Zorpas «Carving out a niche in the sustainability confluence for environmental education centers in Cyprus and Greece». **Sustainability** 2022, 14, 8368. <https://doi.org/10.3390/su14148368> 2022
- J 30. **Irene Voukkali**, Antonis A. Zorpas «Evaluation of Urban Metabolism assessment methods through SWOT Analysis and Analytical Hierocracy Process» **Science of The Total Environment**, 807 150700; <https://doi.org/10.1016/j.scitotenv.2021.150700> 2022

- J 29. **Irene Voukkali**, Antonis A. Zorpas «Metabolism in Tourism» in Buhalis (ed), Encyclopedia of Tourism Management and Marketing, EDWARD ELGAR PUBLISHING LIMITED ISBN:9781800377479, pp 192-195, <https://doi.org/10.4337/9781800377486.metabolism.in.tourism> 2022
- J 28. **Irene Voukkali**, Pantelitsa Loizia, Jose Navarro Pedreno, Antonis A. Zorpas «Urban strategies evaluation for waste management in coastal areas in the framework of area metabolism», **Waste Management & Research** 1–18 DOI: 10.1177/0734242X20972773 2021
- J 27. Pantelitsa Loizia, **Irene Voukkali**, Antonis A. Zorpas, Jose Navarro Pedreno, Georgia Chatziparaskeva, Vassilis J Inglezakis, Vardopoulos Ioannis «Measuring Environmental Performance in the Framework of Waste Strategy Development», **Science of The Total Environment**, **753**, **141974**, <https://doi.org/10.1016/j.scitotenv.2020.141974> 2021
- J 26. Pantelitsa Loizia, **Irene Voukkali**, Georgia Chatziparaskeva, Jose Navarro-Pedreño Antonis A. Zorpas «Measuring the level of Environmental Performance on coastal environment before and during Covid-19 pandemic. A case study from Cyprus» Sustainability 2021, 13, 2485. <https://doi.org/10.3390/su13052485> 2021
- J 25. Ioannis Vardopoulos, Ioannis Konstantopoulos, Antonis A. Zorpas, Lionel Limousy, Simona Bennici, Vassilis Inglezakis, **Irene Voukkali** «Sustainable metropolitan areas perspectives though the assessment of the existing waste management strategy», **Environmental Science and Pollution Research**, <https://doi.org/10.1007/s11356-020-07930-1> 2020
- J 24. Zorpas A.A., **Voukkali I.**, Navarro J. «Tourist area metabolism and its potential to change through a Proposed Strategic Plan in the framework of Sustainable Development» **Journal of Cleaner Production**, **172**, **3609-3620**. <http://dx.doi.org/10.1016/j.jclepro.2017.02.119> 2018
- J 23. Loizia Pantelitsa, **Voukkali Irene**, Antonis A. Zorpas «Boosting Regulations-Legislation Reliefs regarding Environmental Management Systems (ISO 14001-EMAS) in the framework of BRAVER – Case study of Cyprus» **International Journal of Thermal and Environmental Engineering**, **17 (1)**; **19-27** DOI: 10.5383/ijtee.17.01.003 2017
- J 22. A.A. Zorpas, M. Dimitriou, **I. Voukkali** «Disposal of household pharmacies in insular Communities; Social Attitude and Behaviour» **Journal of Environmental Science and Pollution Research**, **25 (12)** DOI: 10.1007/s11356-017-9551-y 2018
- J 21. **Irene Voukkali**, Antonis A. Zorpas, Marinos Stylianou, Konstantinos Konstarelos «Investigation of the implementation of in situ process for the treatment of coal tar using different concentration of Alfoterra and Aerosol with CaCl₂ as electrolyte» **Desalination and Water Treatment**, **65**:**142-146** DOI: 10.5004/dwt.2017.20248 2017
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| IC 9 | Zorpas, A.A., Lasaridi, K., Voukkali, I. , Loizia, P., Inglezakis, V.J. «Solid waste from the hospitality industry in Cyprus» Wessex Institute of Technology – 2 nd International Conference Island Sustainability 2012, held in Bol, Croatia, from 17 - 19 September 2012. | 2012 |
| IC 8 | Zorpas A.A, Voukkali I. , «Central Heating Wastewaters characteristics and proposed treatment methodology using MBR techniques», 3 rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference, 19-24, June Skiathos, Greece, pp. 107, Oral Presentation | 2011 |
| IC 7 | Antonis A. Zorpas, Vassilis Inglezakis, Chryso Koymi, Irene Voukali « Domestic sewage sludge (DSS) characteristics end efficiency from Waste water treatment plant (WWTP) operation in warm climates conditions. A 7 years project», 3 rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference, 19-24, June Skiathos, Greece, Accepted, Oral Presentation | 2011 |
| IC 6 | Vassilis J. Inglezakis, Antonis A. Zorpas, Irene Voukali , «European Union legislation on sewage sludge management», 3 rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference, 19-24, June Skiathos, Greece, Accepted, Oral Presentation | 2011 |
| IC 5 | Antonis A. Zorpas, Miloslav Drtil, Koumi Chryso, Voukali Irene , Vasilis Inglezakis, «Chemical electrical consumption and Sewage Treatment Plant (STP) efficiency under warm climates conditions in the eastern region of Cyprus» ORBIT 2010, Herakleio, 7 th International Conference. 29/6 – 3/7 Crete, Greece | 2010 |
| IC 4 | Antonis A. Zorpas, Vasilis Inglezakis, Irene Voukkali «Compost evaluation procedure» ORBIT 2010, Herakleio, 7 th International Conference , 29/6 – 3/7 Crete, Greece | 2010 |

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| IC 3 | Antonis A. Zorpas, Vasilis Ingezakis, Voukalli Irene , Giovanis Zorpas «Sustainable Enterprises and Environment», PRE10, 10 th International Conference on Protection and Restoration of Environment, Corfu, Greece | 2010 |
| IC 2 | Vasilis Ingezakis, Antonis A. Zorpas, Voukalli Irene , «The management of household hazardous waste in EU» PRE10, 10 th International Conference on Protection and Restoration of Environment, Corfu, Greece | 2010 |
| IC 1 | Zorpas A.A, S. Malamis, G. Lambrou, E. Katsou, M. Loizidou, I. Voukalli , «Development of Sustainability Indices for the Wider Area of Troodos in Cyprus» Wessex Institute of Technology - First International Conference on Island Sustainability, Brack Island, Croatia from 19 - 21 April 2010, pp 65-75, Oral Preparation. | 2010 |

Additional information

PAPERS IN THE PROCEEDINGS OF NATIONAL CONFERENCE (NC) (The papers were approved after judgement)

| | Authors / Title | Year |
|-----|---|------|
| NC3 | Irene Voukalli , Pantelitsa Loizia, Antonis A. Zorpas, Vasilis Ingezakis, «Olive Oil Solid and Liquid Residue treatment using solar energy as a sustainable method for the treatment of heavy polluted waste» Olive Oil Mills Waste and Environmental Protection, 16-18 October 2012, Chania, Crete, Greece, Oral Presentation | 2012 |
| NC2 | Antonis Zorpas, Irene Voukalli , Pantelitsa Loizia, «EMS as a Sustainable Tool in the way of Life of SME», 1st National Conference on Science, Management and Environmental Engineering in Cyprus. Council of Environmental Scientists and Engineers, | 2011 |
| NC1 | Antonis Zorpas, Michalis Chrysafis, Irene Voukalli , «Implementation of EMS as sustainable Tool for Green Tourism», 11 th National Conference Cyprus - Greece, «Contribution of Chemistry in Society, Past, Present and Future trends », 27-30/11/2011, Nicosia, Hilton, Cyprus | 2011 |

Additional Information

INTERNATIONAL CONFERENCES / MEMBER OF THE SCIENTIFIC ADVISORY COMMITTEE (IC-MSAC)

| | | |
|-----------|--|-------------|
| IC-MSAC 2 | 18th International Conference on Environmental Science and Technology (CEST-2023), 30/8-2/9, Athens, Greece | 2023 |
| IC-MSAC 1 | 2 nd International Conference of Food and Bio System Engineering, 28-31 May, Mykonos, Greece | 2015 |

Chairing session(s) in conference

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|--|---|-------------|
| | Charing the session Urban and Regional Sustainable Environment on 16 th February at 1st Open-Air Cities International Conference: Local and Regional Sustainable Development & Urban Reconstruction Athens, GREECE, Harokopio University of Athens | 2024 |
| | Charing the session ESG (Environmental, Social and Governance) and circular economy on 31st of August at 18th International Conference on Environmental Science and Technology (CEST-2023), 30/8-2/9, Athens, Greece | 2023 |
| | Charing the session Circular Economy on 25th of June at 1st International Conference on OpenEarth On Climate Change Adaption and Mitigation, 12-15 February, 2020, Thessaloniki Greece, https://balkanroad.eu/conference | 2020 |

Additional information

RESEARCH PROGRAMS AND STUDIES (RP&S)

| | | |
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| RP&S10 | «Innovative technologies for climate change mitigation by Mediterranean agricultural sector - LIFE17 CCM/GR/000087 – CLIMAMED» Benaki Phytopathological Institute (Greece), Centro di Sperimentazione e Assistenza Agricola (Italy), ENVITECH (Cyprus), Foundation for Research and Technology Hellas (Greece), Green Projects SA (Greece), Ministry of Rural Development and Food (Greece), THE RESEARCH COMMITTEE OF THE TECHNICAL UNIVERSITY OF CRETE (Greece), Universidad Miguel Hernández de Elche (Spain). Total Budget: 2937166, On Going | 2018-2024 |
| RP&S9 | Boosting Regulatory Advantages Vis, A vis Emas Regulation-LIFE B.R.A.V.E.R», LIFE15 ENV/IT/000509I; Università Commercial Luigi Bocconi (Italy), Enviros (Czech Republic), Environmental Technology Ltd (Cyprus), Instituto Analuz de Tecnología (Spain), Ministry of the Environment of the Czech republic, Scientific Research Center Bistra Ptuj (Slovenia), Scuola Superiore di Studi Universitari e di Perfezionamento Sant' Anna (Italy), Total Budget: 1732075 €, On Going | 2015-2019 |
| RP&S8 | CASI Public Participation in Developing a Common Framework for Assessment and Management of Sustainable Innovation, Mobilisation and Mutual Learning (MML) Action Plans: mainstreaming Science in Society actions in research. This project has received funding from the European Union's Seventh Framework Programme for research, technological, development and demonstration (FP7-Science-IN-Society-2013-1) under grant agreement no 612113, Coventry University | 2014-2017 |
| RP&S7 | Development of Sustainable Strategic Plan for Municipality of Paralimni, Cyprus, Funded from Municipality (The strategic plan was star from 2010 and will continue up to 2018 with specific task every year) | 2010-2018 |
| RP&S6 | Development of Sustainable Strategic Plan for Municipality of Ayia Napa, Cyprus, Funded from Municipality | 2014 |
| RP&S5 | Development of Sustainable Strategic Plan for Municipality of Sotira, Cyprus, Funded from Municipality | 2014 |
| RP&S4 | «Development of the Strategic Plan for Waste Prevention in Cyprus», Funded from the Department of Environment, Cyprus | 2013 |
| RP&S3 | «Certification of Varietal Origin of Wine Using DNA-Based methodology in comparison with waste production», Cyprus Research Foundation, GAI Oinotechniki, Cyprus General Chemistry Lab, | 2011-2013 |
| RP&S2 | «Development and Demonstration of a Waste Prevention Support Tool for Local Authorities – WASP» Harokopio University, Municipality of Hania, DEDISA, Marathonios Anaptyxiaki, EPEM S.A., ENVITECH Cyprus, Municipality of Paralimni, Antonis Zorpas (Project Leader for Cyprus) LIFE+2010 (LIFE10/ENVGR/000622/WASP Tool) | 2011-2014 |
| RP&S1 | «Solid Waste Management from the Tourist Industry in Cyprus», Cyprus Sustainable Tourist Initiative, TUI Travel, Travel Foundation, Cyprus Tourist Organization, PriceWaterHouce Coopers and Librances, EnviTech | 2011 |

Additional information

LECTURES IN UNIVERSITIES

- | | |
|------|---|
| 2022 | Invited Speaker to provide a Key Note Lecture in the Master Program of Environmental Conservation and Management in the Scientific Field of Pollution and Energy. My presentation was focused on the "Metabolism of an Area Through the Water Footprint" |
| 2021 | Invited speaker from Departamento de Agroquímica y Medio Ambiente Universidad Miguel Hernández de Elche to provide a key note lecture on 20 th of December. My lecture was focused on "Urban Metabolism" |
| 2018 | Invited Speaker from the Lab of Chemical Engineering and Engineering Sustainability to provide a Key Note Lecture in the Seminar Series that had been organized in the academic year 2018. My presentation was focused on Urban Metabolism |

Additional information

TEACHING EXPERIENCE

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|-----------|--|
| From 2022 | Teaching at Open University of Cyprus – Master Program focuses on Environmental Conservation and Management. Preparation, Organization and Teaching the following subjects : Sustainable Development, Environmental Resource Management, Environmental Legislation, Environmental Management Systems and Impact Assessment, Risk Assessment, Solid Waste Management/Treatment, Composting, Zero waste approach and prevention, Strategic Planning, etc. |
| 2023 | Teaching at Spring School on Circular Economy took place in Aegean University (Center for Sustainable Circular Bioeconomy and Energy) Mytilene 27-29/2023 in the following subject: Circular and sustainable cities. |
| From 2015 | Accredited Professor from the Human Resource Department from Cyprus Government covering the following thematic areas: <ul style="list-style-type: none">• Environmental Engineer / Management• Health and Safety• Risk Assessment Analysis• Quality Control• European Legislation – Standards• Customer Care• Food Safety / Hygiene <p>I have more than 200 teaching hours per year in the following activities</p> <ul style="list-style-type: none">- Tourist industry (Hotels)- Industrial Level (i.e Bakeries, Olive Oil Industries, Hospital)- Local and Competent Authorities |

Additional information

SUPERVISION AND GUIDANCE TO PhD THESIS

I am acting as supervisor in several PhD Thesis which are take place in the Laboratory of Chemical Engineering and Engineering Sustainability in the Department of Pure and Applied Science at Cyprus Open University

| Start | End |
|-------|---|
| 2023 | Florentios Economou Scientific Area: Environmental Engineering Title: «Food losses and Food waste in the primary sector» |

Additional information

SUPERVISION AND GUIDANCE OF MASTER THESIS

Panteli K. 2022: "Identification of organisms for microplastic degradation in composting processes".

Sxoina M. 2022: "The cities of tomorrow: Solutions and Challenges".

Nikolaou P. 2022: "Determining Urban Metabolism Using Performance Metrics. Case study of the Municipality of Patra".

Additional information

TECHNICAL REPORTS & ENVIRONMENTAL STUDIES (TR&ES) Environmental Impact Assessment Analysis

- ✓ Bakeries and Confectioneries
- ✓ Winery
- ✓ Thematic Parks (Water Park, Play Grounds, Entertainment Parks)
- ✓ Contractors Companies
- ✓ Olive Oil Industries
- ✓ Frozen Foods (meat, fish, vegetables)
- ✓ Hotels and Tourist Activities
- ✓ Local and Competent Authorities

Additional information

RISK ASSESSMENT ANALYSIS (RAA)

- ✓ Bakeries and Confectioneries
- ✓ Machinery Industry – Formation of Equipment
- ✓ Winery
- ✓ Thematic Parks, Water Park, Play Grounds, Entertainment Parks
- ✓ Contractors Companies
- ✓ Cement Products like manholes, pipes, brigs, etc
- ✓ Hotels and Tourist Activities
- ✓ Hospital and Medical Activities
- ✓ Municipalities

Additional information

HONORS – SCHOLARSHIPS & PERSONAL QUALIFICATION

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|------------|--|
| 2013-Today | Secretary of the Cyprus Environmental Scientists & Engineering Council |
| 2004-2005 | Scholarship in second year of my studies |
| 2003-2004 | Scholarship in first year of my studies |