

Dr Demetris Francis Lekkas

CONTACT INFO

Professor, Analysis and Simulation of Environmental Systems

School of Environment, University of the Aegean - Greece

Director of the Waste Management Laboratory

Center for Sustainable Circular Bioeconomy and Energy

<https://www.env.aegean.gr/staff/teaching-staff/demetris-lekkas/>

Mytilini, Lesvos, 81100, Greece

Tel: +30 6976557370

Email: dlekkkas@env.aegean.gr

EDUCATION

2005 - 2006	Post Doc – School of Chemical Engineering, National Technical University of Athens, Environmental & Energy Management Research Unit. Project Title: “Development of a methodology for assessing water quality in a water supply system taking into account environmental costs due to pollution” Funded by Pythagoras II
2002 - 2004	Post Doc, Department of Civil and Environmental Engineering Imperial College London, UK Project Title “Improved Methods for National Spatial-Temporal rainfall and Evaporation Modelling for Broad Scale Modelling (BSM)” Funded by DEFRA
1998 -2002	Ph.D., DIC in Hydrology, Department of Civil and Environmental Engineering Imperial College London, UK.
1994 - 1998	B.Sc. in Environmental Studies, Department of Environmental Sciences, University of the Aegean, Greece

ACADEMIC & WORK EXPERIENCE:

- 2023 – today Professor in Analysis and Simulation of Environmental Systems, Department of Environment, University of Aegean, Greece
- 2016 – 2023 Associate Professor in Analysis and Simulation of Environmental Systems, Department of Environment, University of Aegean, Greece
- 2014 – 2016 Associate Professor in Statistical Methods of Simulation and Data Mining. Department of Statistics and Actuarial-Financial Mathematics. University of the Aegean, Samos Greece
- 2006 – 2014 Assistant Professor in Statistical Methods of Simulation and Data Mining. Department of Statistics and Actuarial-Financial Mathematics. University of the Aegean, Samos Greece
- 2005 – 2006 Lecturer, Department of Marine Sciences , University of the Aegean (on contract)

WORK EXPERIENCE (non- academic) :

- 7/2025 – today Associate editor in Waste Management & Research: The Journal for a Sustainable Circular Economy (WM&R)
- 8/2024 – 10/2025 UNEP/MAP - MEDPOL Consultant
- 2023 –2027 COST Action CA22124, EU Circular Economy Network for All: Consumer Protection through

reducing, reusing, repairing (ECO4ALL) – Member of the management Committee

- 2023 –2027 CA22134 - Sustainable Network for agrofood loss and waste prevention, management, quantification and valorisation (FoodWaStop) - Member of Working Groups.
 - 5/2023 – 12/2024 Member of research Network of European Reform University Alliance <https://erua-eui.eu/>
 - 2022 – today Member of the technical committee ELOT / TC2 of National Quality Infrastructure System “Environment and Circular Economy”
 - 2017 – 2020. Vice President of the Research and Innovation Council of the North Aegean Region
 - 2016 – 4/2019 Special DVG Partner - waste management expert
 - 2014 - 2022. Executive Board Member of the Research Unit of the University of the Aegean
-

RESEARCH PROJECTS

- ReBoat - Circular systemic solution for sustainable tourism in european islands by movable plant on a boat and co-creation with island stakeholders - HORIZON-CL6-2024-CIRCBIO-01 Launch date 1/2025, duration 42 months <https://reboat-project.eu/>
 - URBAQUANTUM - A novel, integrated approach to urban water quality monitoring, management and valorisation HORIZON-CL6-2024-ZEROPOLLUTION-02 Launch date 6/2025, duration 42 months
 - Partner in the project: CRESCENTO CiRcular Economy Skills enhanCEment NeTwOrk Funded by Interreg ADRION Launch date 1/2023, duration 9 months <https://crescento.adrioninterreg.eu/>
 - Partner in the project: COAST-EPS" Recycling and reuse of polymer foams in cement-based materials. Financed by the Ministry of Environment Green Fund - Start 1/2013, Duration 24 months.
 - Coordinator of the project: Center for Sustainable Circular Bioeconomy and Energy, Operational Programme “Competitiveness, Entrepreneurship & Innovation EPANEK 2014-2020”, Invitation no 111 “Regional Excellence in R&D Infrastructures - Start 12/2021, Duration 30 months
 - Partner in the project: COMPAIR funded by from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101036563. <https://www.wecompair.eu/>
 - Partner in the project: Innovation and Entrepreneurship in the Domain of Digital Transformation, Circular Economy and Sustainable Development – PROMETHEUS funded by EIT’s HEI Initiative (EU) Launch date 7/2021, duration 24 months. <https://hei-prometheus.eu/>
 - Coordinator of the project: Aegean AgroWaste Lab - Research Infrastructure for treatment and valorization of by-products and residues of agrowaste sector to produce alternative products and energy. Financed by the Operational Program "North Aegean 2014-2020", co-funded by the European Regional Development Fund (ERDF) Launch date 10/2018, duration 36 months
 - Partner in the project: Intelligent Research Infrastructure for Shipping, Supply Chain, Transport and Logistics (EN.I.R.I.S.S.T) MIS: 5027930 Financed by the programme “Strengthening National Research Infrastructures Of the Operational Program Competitiveness, Entrepreneurship and Entrepreneurship Innovation (2014-2020)” EPANEK - (the new NSRF) Launch date 3/2019, duration 36 months
 - Coordinator of the project: Analysis of packaging materials in Solid Wastes. Financed by HERRco
-

Launch date 4/2018, duration 48 months

- Partner in the project: Establishment of sustainable infrastructures for the valorization of organic by products and special wastes related to migrants and refugees' streams on the example of Lesbos and Chios Island Funded by BMUB (Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety) project "SusNisia" (FKZ 16EXI2228A) Launch date 2/2018, duration 16 months
 - Coordinator of the project: Geo-Ergon Paideia" «Start Up Farm: Skills for future eco-farmers». European programme Erasmus+, through the Greek State Scholarship Foundation. Launch date 9/2016, duration 24 months.
 - Coordinator of the project "Support and development of Waste Management practices for the Municipality of Paxos Island - Municipality of Paxos Island Launch date 12/2016, duration 12 months
 - Coordinator of the project "Practices for integrated Municipal Waste Management for the Island of Kythnos Launch date 11/2016, duration 12 months
 - Coordinator of the project "Evaluation and optimization of a mobile treatment unit for Municipal Solid - Municipality of Kalamata" financed by the Municipality of Kalamata, 2013 – 2016
 - Researcher for the project "ΘΑΛ-ΧΩΡ- Cross-border Cooperation for the development of Marine Spatial Planning" financed by INTERREG IVC Programme Greece-Cyprus 2007-2013.
 - Coordinator of the project "Reduction of operating cost of tourist corporation via sustainable management of water and energy" financed by the National Strategic Reference Framework (NSRF) Operational Programme "Education and Lifelong Learning 2007-2013. Launch date 3/2014, duration 5 months.
 - Coordinator of the project "EarthBias 2014 - Summer School in Big Data Analysis in Earth Sciences" financed by the National Strategic Reference Framework (NSRF) - Operational Programme "Education and Lifelong Learning 2007-2013. MIS 355434. Start 1/2014, duration 8 months.
 - Scientific responsible for the project "Identification of water bodies as part of the Water Framework Directive management plan for the islands in the Aegean water district", financed by the Ministry of Environment, Energy and Climate Change - Start 7/2013, Duration 10 months.
 - Researcher for the project "ISLA - Physical and Economic Impacts of Sea Level Changes on the Island Beaches of the Aegean Archipelago" financed by the Operational Program Education and Lifelong Learning of the National Strategic Reference Framework (NSRF) - Research Funding Program: THALES, Start 2012, duration 36 months
 - Researcher for the project "DROUGHT R-SPI - Fostering European Drought Research and Science-Policy Interfacing" School of Chemical Engineering, National Technical University of Athens, financed by the European Commission, 7th Framework Programme, Collaborative Project - Start 10/2011, Duration 36 months.
 - Researcher for the project "WASSERMed - Water Availability and Security in Southern Europe and the Mediterranean" School of Chemical Engineering, National Technical University of Athens, financed by the European Commission, 7th Framework Programme, Collaborative Project - start 1/2010, Duration 36 months.
 - Researcher for the project "SWITCH - Sustainable Water management Improves Tomorrow's Cities' Health ", School of Chemical Engineering, National Technical University of Athens. Joint project between a UN organization and the European Commission. - Start 1/2006, duration 60 months.
-

-
- Researcher for the project “AquaStress - Mitigation of Water Stress through new approaches to Integrating Management, Technical Economic and Institutional Instruments”, School of Chemical Engineering, National Technical University of Athens, financed by European Commission, DG Research, 6th Framework Programme, 511231, (2005-2008).
 - Researcher for the project “WaterStrategy Man - Developing Strategies for Regulating and Managing Water Resources and Demand in Water Deficient Regions” School of Chemical Engineering, National Technical University of Athens, financed by European Commission, DG Research, 5th Framework Programme, Water Key Action, EVK1-CT-2001-00098, (2001-2005).
 - Researcher for the project “Development of a methodology for assessing the change of water quality in a water system incorporating environmental cost” School of Chemical Engineering, National Technical University of Athens, financed by EPEAEK Programme - PYTHAGORAS II (2005-2006).
 - Research assistant (Post-Doc) “Improved Methods for National Spatial-Temporal rainfall and Evaporation Modelling for Broad Scale Modelling (BSM)” EWRE, Dept. of Civil and Environmental Engineering, Imperial College, London, UK financed by DEFRA UK (2002-2004).
 - Research assistant, Department of Environment, University of Aegean. Project Title “Alternative methods for water disinfection – EYDAP” (2002-2005).
 - Research assistant, Department of Environment, University of Aegean. Project Title: Determination of Environmental state in inland waters with respect to Priority Substances of Directives 76/464/EEC (1998-2000).
 - Research assistant, Department of Environment, University of the Aegean. Project Title: Monitoring Priority Substances of Directives 76/464/EEC and 2000/60/EC in Greek Water Bodies (1996-1998)
-

INVITED PRESENTATIONS TO INTERNATIONAL CONFERENCES AND/OR ADVANCED SCHOOLS

- Mapping hotel foodwaste and introducing circular management practices. Invited talk at HORIZON 2020 FOODRUS WORKSHOP. September 2023 Athens Greece
- Integrated MSW management at small and remote municipalities. Invited talk at a workshop for Recycling @ Santorini organized by the Hellenic Society for Environment and Culture (ELLET), HERRCo, the Center for the Management of Recyclable Materials (KDAV THIRAS) and the Tomato Industrial Museum (BIMT), June 2023 Santorini, Greece
- Single Use Plastics (2019) Invited talk at workshop of Laskaridis Charitable Foundation, Athens Greece
- Environment and the Mediterranean. Climate Change impact on tourism (2018). Invited talk at Institute for Mediterranean Studies, Athens Greece
- Sustainable infrastructures for the valorisation of biowastes in Lesbos and Chios islands. Invited talk at the 8th annual Hellenic-German Assembly (DGV), 2018 Hersonisos, Greece
- Big data analysis in health and environmental studies. Invited talk at the Annual Congress Innovation Arabia 11, Dubai, UAE, 2018.
- Integrated MSW management at small and remote municipalities. Invited talk at a workshop “For a livable, sustainable & gentle development of Nisyros” organized by the Municipality of Nisyros, 2018 Nisyros, Greece

ORGANIZATION OF INTERNATIONAL CONFERENCES

- 1st International Summer School - Big Data Analysis in Earth Sciences July. 2014, Rhodes Greece
- 2nd International Summer School - Big Data Analysis in Earth Sciences Sept. 2015, Rhodes Greece
- D.F. Lekkas (editor) 15th International Conference on Environmental Science and Technology”, Rhodes, Greece. ISBN 978-960-7475-53-4, 2017.
- 3rd International Summer School - Big Data Analysis in Earth Sciences August 2017, Rhodes Greece
D.F. Lekkas (editor) 16th International Conference on Environmental Science and Technology”, Rhodes, Greece. ISBN 978-618-86292-0-2, 2019.
- D.F. Lekkas (editor) 17th International Conference on Environmental Science and Technology”, Athens, Greece. ISBN 978-618-86292-1-9, 2021.
- [Spring school on Circular Bioeconomy](#) (2023) Mytilini, Greece
- D.F. Lekkas (editor) 18th [International Conference on Environmental Science and Technology](#)”, Athens, Greece, 2023.
- [Crescento Summer School on Circular Economy](#) (2023), Athens Greece

PUBLICATIONS IN SCIENTIFIC JOURNALS

- 1 Pavlogeorgatos G., Karantanelli M., Lekkas D., (1999) Determination of Cadmium in the surface waters of the Northern Greece. *Toxicological and environmental chemistry*, vol. 69, 165 – 169
- 2 Lekkas D.F., Imrie C.E., Lees M.J., (2001) Improved non-linear transfer function and neural network methods of flow routing for real-time forecasting. *Journal of Hydroinformatics*, vol. 3(3), 153-164.
- 3 Koumenides K., Sakkas N., Lekkas D.F., Xylourgidis N., (2001) Using GAC to control THMs in drinking water. An experimental study at the Athens water works and a first economic evaluation of the method. *GLOBAL NEST: the International Journal*, vol. 3(3), 189-197.
- 4 Golfinopoulos S.K., Nikolaou A.D., Kostopoulou M.N., Xilourgidis N.K., Vagi M.Ch., Lekkas D., (2003). Organochlorine pesticides in the surface waters of Northern Greece, *Chemosphere*, vol. 50(4), 507 – 516.
- 5 Lekkas T., Kostopoulou M., Petsas A., Vagi M., Golfinopoulos S., Stasinakis A., Thomaidis N., Pavlogeorgatos G., Kotrikla A., Gatidou G., Xylourgidis N., Kolokythas G., Makri C., Babos D., Lekkas D.F. and Nikolaou A., (2003) Monitoring Priority Substances of Directives 76/464/EEC and 2000/60/EC in Greek Water Bodies. *Jour. Environ. Monitoring* vol. 5(4), 593 - 597.
- 6 Lekkas D.F., Maxey R.T., Wheeler H.S., (2004) Intercomparison of forecasting methods for flood warning in the river cam catchment. *GLOBAL NEST: the International Journal*, vol. 5(2), 87-95.
- 7 Lekkas T., Kostopoulou M., Kolokythas G., Thomaidis N., Golfinopoulos S., Kotrikla A., Pavlogeorgatos G., Stasinakis A., Nikolaou A., Gatidou G., Petsas A., Vagi M., Babos D., Lekkas D., Makri M. (2004) Optimization of analytical methods for determination of trace concentrations of toxic pollutants in drinking and surface waters. *GLOBAL NEST: the International Journal*, vol. 5(3), 133-143.
- 8 Lekkas T., Kolokythas G., Nikolaou A., Kotrikla A., Gatidou G., Thomaidis N., Golfinopoulos S., Makri C., Vagi M., Stasinakis A., Petsas A., Lekkas D.F., (2004) Evaluation of the pollution of the surface waters of Greece from the priority compounds of list II, 76/464/EEC Directive. *Environment International*, vol. 30, 995-1007..
- 9 Lekkas D.F., Onof C., Lees M.J., Baltas E.A., (2004) Application of artificial neural networks for flood forecasting. *GLOBAL NEST: the International Journal*, vol. 6(3), 209-215
- 10 Wheeler H.S., Chandler R.E., Onof C.J., Isham V.S., Bellone E., Yang C., Lekkas D. F., Lourmas G., Segond M-L., (2005) Spatial-temporal rainfall modelling for flood risk estimation. *Stochastic and Environmental Research and Risk Assessment*. vol. 19(6), 403-416.
- 11 Lekkas D.F., (2005) Identification of water quality changes in Athens water system – limitations and perspectives. *Transactions on Environment and Development*. vol. 1(1), 69-74
- 12 Lekkas D.F., Onof C., (2006) Introducing the variation of advective time delay (ATD) to Transfer Function models. *Environmental Modelling and Software*, vol. 21, 1180 -1189
- 13 Kanaki M, Nikolaou A., Makri C.A, Lekkas D.F., (2007) The occurrence of priority PAHs, nonylphenol and octylphenol in inland and coastal waters of Central Greece and the island of Lesbos, *Desalination*, vol. 210, 16-23
- 14 Nikolaou A.D., Meric S., Lekkas D.F., Naddeo V., Belgiorio V., Groudev S., Tanik C., (2008) A Multi-parametric water quality monitoring approach according to the WFD application in Evros trans-boundary river basin: Priority pollutants. *Desalination*, vol. 226, 306-320.
- 15 Lekkas D.F., (2008) Using complementary methods for improved flow forecasting. *Journal of Hydrological Sciences*, vol. 53(4), 696-706
- 16 Lekkas D. F., Manoli E., Assimacopoulos D., (2008) Integrated urban water modelling using

Aquacycle model. Global NEST Journal vol. 10(3), 310-319

- 17 Lekkas, T. D., Babi, K. G., Koumenides, K. M., Makri, C. A., Lekkas, D. T., Nikolaou, A. D., (2009) Removal of specific DBPs by GAC in Galatsi WTP, Athens. GLOBAL NEST Journal , vol. 11(3), Sp. Iss. SI, 349-356
- 18 Malmsten M., Lekkas D.F., (2010) An econometric cost analysis of urban water supply and waste water treatment processes. Application to a number of Swedish communities. Desalination, vol. 18, 327–340, (doi: 10.5004/dwt.2010.1961).
- 19 N Kampragou E., Lekkas D.F., Assimacopoulos D. (2010) Water demand management: Implementation principles and indicative success stories. Water and Environment Journal, vol. 25 (2011) 466–476 (doi: 10.1111/j.1747-6593.2010.00240.x).
- 20 Karka P., Lekkas D.F., Grigoropoulou, E., Assimacopoulos, D., (2011). Conceptual modelling for quantifying wastewater production. A case study for Athens wastewater system. Journal of Environmental Science and Engineering, vol. 5, 1-4
- 21 Anastasiadis S., Boglis A., Pechlivanidis I.G., Lekkas D.F., Baltas E., 2013, Application of GIS-based Clark's Unit hydrograph and transfer function model to describe runoff response in a small catchment - Case study: Lykoremma River, Greece, Fresenius Environmental Bulletin, 22(7B), 2152-2158
- 22 Pechlivanidis I.G., Anastasiadis S. and Lekkas D.F. (2015) Development and testing of the MWBMT toolbox to predict runoff response at the poorly gauged catchment of Mornos, Greece. European Water Issue 39, 3-18
- 23 Ioannidis K., Karagrigoriou A., Lekkas D.F., (2015). Analysis and Simulation of Rainfall Events. Mathematics in Engineering, Science & Aerospace (MESA),6(4).
- 24 Klontza E.E., Kampragkou E., Ververidis K. Papadopoulou M.P., Lekkas D.F. (2016) Evaluation of a water saving methodology for mid-sized tourist lodging units. European Journal of Environmental Sciences Vol. 6, No. 1, pp. 37-42 <https://doi.org/10.14712/23361964.2016.7>
- 25 Golfinopoulos S.K, Nikolaou Ad, Thomaidis NS, Kotrikla AM, Vagi M, Petsas A, Lekkas DF and Lekkas TD. (2017) Determination of the priority substances regulated by 2000/60/EC and 2008/105/EC Directives in the surface waters supplying water treatment plants of Athens, Greece JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH, PART A, Toxic/Hazardous Substance & Environmental Engineering Volume 52, 2017 - Issue 4 doi.org/10.1080/10934529.2016.1262600
- 26 Mammas, K., Lekkas, D.F., (2018) Rainfall Generation using Markov Chain Models; Case Study: Central Aegean Sea *Water* 2018, 10(7), 856; <https://doi.org/10.3390/w10070856>
- 27 Mathioudakis, D., Papadopoulou, K., Lytras, G.M. Pavlopoulos, C., Niakas, S., Filippou, K., Melanitou, E. Lekkas, D.F., Lyberatos, G.,. A Detailed Characterization of Household Municipal Solid Waste. *Waste Biomass Valor* (2020). <https://doi.org/10.1007/s12649-020-01260-6>
- 28 Lekkas D.F., Panagiotakis I., Dermatas D., (2021) A digital circular bioeconomy – Opportunities and challenges for waste management in this new era. *Waste Management & Research* Volume 39, Issue 3 <https://doi.org/10.1177/0734242X2199>
- 29 Mammas, K.; Lekkas, D.F. Characterization of Bias during Meteorological Drought Calculation in Time Series Out-of-Sample Validation. *Water* 2021, 13, 2531. <https://doi.org/10.3390/w13182531>
- 30 Daskaloudis I. Lekkas D.F. (2021) Co-composting olive mill wastes with food residues and evaluation of the obtained compost maturity. *Journal of Environmental Engineering*, Volume 147, Issue 11. [https://doi.org/10.1061/\(ASCE\)EE.1943-7870.0001913](https://doi.org/10.1061/(ASCE)EE.1943-7870.0001913)
- 31 Lekkas D.F., Kazamias F., Klontza EE (2002) Composting of the organic fraction of municipal solid waste as an alternative to the uncontrolled disposal: The case of Kalamata Municipality (Greece)
-

- 32 Skouloudis, A., Malesios, C., Lekkas, D.F. et al. Consumer Preferences in Greece for Bio-Based Products: a Short Communication. *Circ.Econ.Sust.* (2022). <https://doi.org/10.1007/s43615-022-00215-4>
- 33 Tsaligopoulos, A.; Kyvelou, S.S.; Chiotinis, M.; Karapostoli, A.; Klontza, E.E.; Lekkas, D.F.; Matsinos, Y.G. The Sound of a Circular City: Towards a Circularity-Driven Quietness. *Int. J. Environ. Res. Public Health* 2022, 19, 12290. <https://doi.org/10.3390/ijerph191912290>
- 34 Kalantzis D., Daskaloudis I., Lacoere T., Stasinakis AS., Lekkas, D.F., De Vrieze J., Fountoulakis MS. (2023) Granular activated carbon stimulates biogas production in a pilot-scale anaerobic digester treating agro-industrial wastewater. *Bioresource Technology*, Volume 376 <https://doi.org/10.1016/j.biortech.2023.128908>
- 35 Papastefanakis N., Daliakopoulos I.N., Maragkaki A.E., Tsompanidis C., Zotos N., Lekkas D.F., Manios T., Fountoulakis M.S., (2023) Application of solar drying as a pre-treatment method for storing wet feedstocks prior to use in anaerobic digesters: Effect on methane production and digestate composition. *Fuel*, Volume 348 <https://doi.org/10.1016/j.fuel.2023.128477>
- 36 Xypolias P., Vakalis S., Daskaloudis I., Lekkas D.F. (2023) Hydrothermal Carbonization of Dry Anaerobic Digestion Residues derived from Food and Agro Wastes in Lesvos Island. *Energies* 2023, 16(12), 4619; <https://doi.org/10.3390/en16124619>
- 37 Economou F., Papamichael I., Voukkali I., Loizia P., Klontza E., Lekkas D.F., Naddeo V., Demetriou G., Navarro-Pedreño J., Hadjisavvas C., Zorpas (2023) Life cycle assessment of potato production in insular communities under subtropical climatic conditions. *Case Studies in Chemical and Environmental Engineering* Volume 8, <https://doi.org/10.1016/j.cscee.2023.100419>
- 38 Skouloudis A., Malesios C., Lekkas D.F., (2023) Notes from the field: Public views of bioplastics - findings from Greece. *Circular Economy and Sustainability* <https://doi.org/10.1007/s43615-023-00307-9>
- 39 Liakos D., Altiparmaki G., Kalampokidis A., Lekkas D.F., Vakalis S., (2023) The role of hydrochar on the production of biogas and volatile fatty acids during anaerobic digestion of cheese whey wastewater. *Sustainable Chemistry and Pharmacy* Volume 35 <https://doi.org/10.1016/j.scp.2023.101153>
- 40 Athanasiadou V., Klontza E.E., Dimitriou – Christidis P., Fountoulakis MS, Lekkas D.F., (2023) Evaluation of *Arthrospira* (Spirulina) platensis growth using cheese whey in the context of circular economy. *Sustainable Chemistry and Pharmacy* Volume 34, <https://doi.org/10.1016/j.scp.2023.101173>
- 41 Voukkali I., Papamichael, I., Loizia, P., Lekkas, D.F., Rodríguez-Espinosa, T; NAVARRO PEDRENO, J; Zorpas, A (2023) Waste metrics in the framework of Circular Economy (2023) *Waste Management & Research: The Journal for a Sustainable Circular Economy (WM&R)* Volume 41, Issue 12 <https://doi.org/10.1177/0734242X231190794>
- 42 A. Orfanou, S. Vakalis, C. Karelis, C Alexopoulos, Y Charalabidis, D F Lekkas (2023) Assessing the correlation between citizen science and carbon footprint: Introduction of COMPAIR's CO2 calculator. *Energies* 2023, 16(17), 6228; <https://doi.org/10.3390/en16176228>
- 43 Naddeo V., Tiziano Zarra, Md. Nahid Pervez, Iliana Papamichael, Antonis A. Zorpas, Chi-Wang Li, Eleftheria Klontza, Demetris F. Lekkas, Vincenzo Belgiorno (2023) A Comparative Analysis of Ecological Status Assessment in River Water Quality under the European Water Framework Directive. *Case Studies in Chemical and Environmental Engineering* Volume 8, <https://doi.org/10.1016/j.cscee.2023.100477>
- 44 Kelmalis A. **Lekkas D.F.**, Moustakas K., Vakalis S. (2023) Assessing the emissions of short sea international shipping: a case study of the Mytilini - Ayvalık route" - *Environmental Science and*

Pollution Research (2023) Volume 30 <https://doi.org/10.1007/s11356-023-30595-5>

Tsaligopoulos A., Kyvelou SS., Karapostoli A., Bobolos N., Tsintzou T., **Lekkas DF.**, Matsinos YG.,
 (2023) Sound complexity on the land-sea interface: Studying the effects of noise on the
 waterfront of a Mediterranean metropolis (2023) Noise Mapping. Volume 10 Issue 1
<https://doi.org/10.1515/noise-2022-0173>

Voukkali I., Papamichael I., Economou F., Loizia P., Klontza E., **Lekkas D.F.**, Naddeo V., Zorpas A.A.
 (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>

Papamichael I., Voukkali I., Loizia P., Stylianou M., Economou F., Vardopoulos I., Klontza E.E.,
Lekkas D.F., Zorpas A.A. (2023), Measuring Circularity: Tools for monitoring a smooth transition
 to Circular Economy, Sustainable Chemistry and Pharmacy, 36, 101330,
<https://doi.org/10.1016/j.scp.2023.101330>

Economou, Florentios; Chatziparaskeva, Georgia; Papamichael, Iliana; Voukkali, Irene; Loizia,
 Pantelitsa; NAVARRO PEDRENO, JOSE; Klontza, Eleftheria; **Lekkas, DF.**; Naddeo, Vincenzo;
 Zorpas, Antonis A (2024) The concept of Food Waste and Food Loss Prevention and Measuring
 Tools" in its current form for publication in Waste Management & Research: The Journal for a
 Sustainable Circular Economy (WM&R). <https://doi.org/10.1177/0734242X241237>

Kouvousi, D., Xypolias, P., Daskaloudis, I. Iliana Papamichael, Antonis A. Zorpas, Eleftheria E.
 Klontza & **Lekkas DF.** Development of a methodology for the sampling and treatment of food
 waste and food residues in Kara Tepe (Lesvos) refugee camp. Euro-Mediterr J Environ
 Integr (2024). <https://doi.org/10.1007/s41207-024-00461-y>

Skouloudis, A., Malesios, C. & **Lekkas, DF.** Notes from the Field: Public Views on Bioplastics-
 Findings from Greece. Circ.Econ.Sust. 4, 791–813 (2024). <https://doi.org/10.1007/s43615-023-00307-9>

Kelmalis, A. Dimou, A. **Lekkas, D.F.** Vakalis, S. Cold Ironing and the Study of RES Utilization for
 Maritime Electrification on Lesvos Island Port. Preprints 2023, 2023121457.
<https://doi.org/10.20944/preprints202312.1457.v1>

Cairone S., Hasan S.W., Choo K-Ho, **Lekkas D.F.**, Fortunato L., Zorpas A.A., Korshin G., Zarra T.,
 Belgiorno V., Naddeo V., (2024) Revolutionizing Wastewater Treatment with Smart and Cutting-
 Edge Technologies: Pioneering Sustainable and Efficient Solutions within Circular Economy and
 Carbon Neutrality Goals. Journal of Water Process Engineering 63, 105486,
<https://doi.org/10.1016/j.jwpe.2024.105486>

Alexopoulos, C., Karelis, C., Keramidis, P. et al. Analysing the Indicators and the Associated
 Recommendations of Household Emission Calculators. Circ.Econ.Sust. 4, 2657–2673 (2024).
<https://doi.org/10.1007/s43615-024-00401-6>

Skouloudis, A., Malesios, C. & **Lekkas, DF.** Investigating Antecedents and Consequences of
 Consumer Satisfaction from Bio-Based Products: Evidence from Greece. Circ.Econ.Sust. (2024).
<https://doi.org/10.1007/s43615-024-00412-3>

Kalampokidis, A., Klontza, E., Vakalis, S. Naddeo V. **Lekkas D.F.** (2024) Is It Possible to Produce
 Polyhydroxyalkanoate (PHA) Bioplastics of Consistent Composition from Organic Wastes? A
 Review. Circ.Econ.Sust. 4, 2775–2797. <https://doi.org/10.1007/s43615-024-00452-9>

Lourmpas N., Papanikos P., Efthimiadou E.K., Fillipidis A., **Lekkas D.F.**, Alexopoulos N., (2024)
 Degradation assessment of high-density polyethylene (HDPE) debris after long exposure to
 marine conditions Science of The Total Environment Volume 954, 1 December 2024, 176847
<https://doi.org/10.1016/j.scitotenv.2024.176847>

Zorpas, A.A., Naddeo, V., **Lekkas, D.F.** et al. Pioneering approaches to sustainability through

- nexus waste strategies development in the framework of circular economy. J.Umm Al-Qura Univ. Appl. Sci. (2025). <https://doi.org/10.1007/s43994-025-00272-z>
- 58 Zorpas, A.A., **Lekkas, D.F.** Nexus approach and perspectives in the next generation waste strategies development. *Science of the Total Environment* (2025), 958, 178183 <https://doi.org/10.1016/j.scitotenv.2024.178183>
- 59 Schiza, S., Sventzouri, E., Pispas, I. Petousi, **Lekkas D.F.**, Stasinakis AS., Kornaros M. and Fountoulakis MS. Fungal-assisted harvesting of *Chlorella sorokiniana* cultivated in diluted anaerobic digestate using the edible mushroom *Pleurotus ostreatus*. *Environ Sci Pollut Res* (2025). <https://doi.org/10.1007/s11356-025-37043-6>
- 60 Giuseppina Oliva, Stefano Cairone, Silvia De Paola, Tiziano Zarra, Vincenzo Belgiorno, Antonis A Zorpas, **Demetris F Lekkas**, Vincenzo Naddeo
- Landfills as integrated water–energy–food–ecosystems Nexus hubs: A prospective vision for circular economy implementation *Waste Management & Research: The Journal for a Sustainable Circular Economy*. 2026;44(1):1-7. doi:[10.1177/0734242X251399507](https://doi.org/10.1177/0734242X251399507)
- 61 Athanasia Orfanou, Eleftheria Klontza, Stergios Vakalis, Irene Voukkali, Antonis A. Zorpas, Demetris F. Lekkas. Introducing waste generation as a factor affecting carbon footprint in hotel operation and assessment of reduction practices, *Energy Nexus*, Volume 21, (2026), <https://doi.org/10.1016/j.nexus.2025.100615>
- 62 Daskaloudis I., Kalampokidis A., Fountoulakis MS., **Lekkas D.F.** Innovative use of ash additives in anaerobic co-digestion: optimizing methane production from agro-industrial wastes within a circular economy framework" *Waste Management & Research: The Journal for a Sustainable Circular Economy (WM&R)* <https://doi.org/10.1177/0734242X251406011> .

PUBLICATIONS IN SCIENTIFIC CONFERENCES

1. Karantanelli M., Golfinopoulos S., Kotrikla A., Pavlogeorgatos G., Xilourgides N., Makri Ch., Kolokithas G., Lekkas D., (1997) Determination of the substances of the Catalog I of the 76/464 EEC Directive in the surface waters of the Northern Greece, 5th Conference on Environmental Science and Technology, Volume B', 346-356, Molyvos, Lesvos, Greece, (ISSN 1106-5516).
 2. Karadanelli M., Golfinopoulos S., Kotrikla A., Pavlogeorgatos G., Xilourgides N., Makri Ch., Kolokithas G., Lekkas D., Nikolaou A.D., (1998) Occurrence of micropollutants in the surface waters of Northern Greece (Catalogue I, 76/464/EEC Directive), 4th International Conference Protection and Restoration of the Environment, Vol. I, 153-160, Halkidiki, Makedonia Greece.
 3. Lekkas D., Plomaritis Th., Tsirtsis G., Karydis M., (1999) Antifouling toxicity on marine microalgae. 6th Conference on Environmental Science and Technology, Volume A, 473-479.
 4. Imrie C.E., Lekkas D.F., Lees M.J., (2000) Comparison of non-linear transfer function and artificial network for flow routing. 7th National Hydrology Symposium, British Hydrological Society p. 5.15-5.16, Newcastle upon Tyne, UK.
 5. Lekkas D.F., Baltas E., Mimikou M., Onof C., (2001) Preliminary study of a new non-linear Transfer Function model for real-time river flow forecasting and control. Proceedings of the Mahadevan Birth Centenary International Symposium on Challenges of Water Resources Management in the Developing Countries in the 21st Century. Andhra University, Visakhapatnam, India.
 6. Lekkas D.F., Baltas E., Mimikou M., Onof C., (2001) River flood forecasting with a Transfer Function model. 7th Int. Conference on Environmental Science and Technology, Vol. B p.518-523, Ermoupolis, Syros Greece.
 7. Lekkas T., Kostopoulou M., Kolokythas G., Petsas A., Vagi M., Stasinakis A., Thomaidis N., Gatidou
-

-
- G., Kotrikla A., Golfinopoulos S., Makri C., Lekkas D., Nikolaou A. (2003) Investigation of priority pollutants belonging to the new water framework directive in the surface waters of Greece. HELLECO 2003, Vol. A, p 232-239, Thessaloniki, Greece.
8. Wheeler H.S., Isham V., Onof C.J., Chandler R.E., Bellonie E., Chi Y., Lekkas D.F., Segond M-L. (2003) Stochastic Modelling of Rainfall and Evaporation for Continuous Simulation Rainfall-Runoff Modelling. EGS - AGU - EUG Joint Assembly, Nice, France.
 9. Lekkas D.F., Onof C., (2005) Improved flow forecasting using Artificial Neural Networks. 9th int. conference on Environmental Science and Technology. vol. A, 877-884.
 10. Kanaki M., Nikolaou A., Makri C., Lekkas D.F., (2005) The occurrence of priority PAHs in inland and coastal waters in Athens and Mytilene, Greece. 9th int. conference on Environmental Science and Technology vol. A, 653-658
 11. Lekkas DF, Makri C., Gkolfinopoulos S., Nikolaou, AD, Babi,A, Koumenidis, K. (2005) Alternative disinfection methods. – Minimisation of toxic organic compounds: Application in Athens water supply 5o ΕΕΔΥΠ. in greek
 12. Minasidou K., Lekkas D.F., Nikolaou A., Golfinopoulos S., (2006) Water quality changes during storage - The case of Mornos reservoir International Conference Protection and Restoration of the Environment VIII, Chania, Crete, Greece.
 13. Nikolaou A.D., Meric S., Lekkas D.F., Naddeo V., Belgiorio V., Groudev S., Tanik A., (2006) Multi-parametric water quality monitoring approach according to the WFD in the Evros transboundary river basin: Priority pollutants. DIPCON, Istanbul, TURKEY.
 14. Karka P., Lekkas D.F., Grigoropoulou E., Assimacopoulos D., (2006) Stochastic modelling of organic material in urban waste water systems, Aqua 2006- Water Science and Technology Integrated Management of Water Resources, 23 – 26, Greece.
 15. Karka P., Manoli E., Lekkas D.F., Assimacopoulos D., (2007) A case study on integrated urban water modelling using Aquacycle. 10th int. Conference on Environmental Science and Technology, vol. A, 629-639.
 16. Apostolaki S., Lekkas D.F., Assimacopoulos D., Elbadawy O., Abuzeid K. Batchelor C., Bury P.J.(2007) Integrating Visioning, RIDA and DSS activities in Alexandria. 2nd SWITCH Scientific Meeting, Tel-Aviv, Israel.
 17. Lekkas T.D., Babi K.G., Koumenides K.M., Makri C.A., Lekkas D.F., Nikolaou A.D. (2008) REMOVAL OF SPECIFIC DBPs BY GAC IN GALATSI WTP, ATHENS In Protection and Restoration of the Environment IX, Corfu, Greece.
 18. Lekkas D.F., Gkaras A., Boukas L. (2009) Spatial Representation of Rainfall Field Using Cellular Backbone Networks. Κοινό Συνέδριο - 11ο της Ελληνικής Υδροτεχνικής Ένωσης & 7ο της Ελληνικής Επιτροπής Διαχείρισης Υδατικών Πόρων.
 19. Boglis A, Evelpidou N., Vasilopoulos A., Lekkas D.F., Foudoulis I. (2009) Urban flood modeling in Karlovassi area – Samos Island. 11th int. Conference on Environmental Science and Technology Chania, Crete.
 20. Lekkas D.F., Modarres R., (2009) Investigation of the watershed area- peak flow relationship using artificial neural networks. EGU General Assembly vol 11.
 21. Lekkas D.F., Boukas L., (2009) High resolution rainfall estimation platform for urban flooding protection URBAN FLOOD CONFERENCE - PARIS.
 22. Kakoura V.I., Boukas L., Lekkas D.F., Konofaos N., (2010) Examining the performance of an open space laser network link under various weather conditions, Pan-Hellenic Conference EUREKA, 2010, Patras, Greece.
 23. Mammas K., Anastasiadis S., Lekkas D.F., (2011) Statistical Analysis of Precipitation Indexes and Investigation of Climate Change in Naxos Island, 12th int. Conference on Environmental Science
-

and Technology, Rhodes, Greece.

24. Anastasiadis S., Boglis A., Pechlivanidis I., Lekkas D.F., Baltas E., (2011) Evaluation of a GIS-based method to describe runoff response in ungauged catchments. CEMEPE 2011.
25. Anastasiadis S., Kamprakou E., Lekkas, D.F., Vagiona D. (2012) Towards an understanding of climate change impacts in Greek islands In Protection and Restoration of the Environment XI.
26. Anastasiadis S., Liagkas G. Lekkas D.F., (2012) Ανάλυση ακραίων γεγονότων βροχόπτωσης Αιγαίου και Κεντρικής Ελλάδας. 2ο ΚΟΙΝΟ ΣΥΝΕΔΡΙΟ ΕΛΛΗΝΙΚΗΣ ΥΔΡΟΤΕΧΝΙΚΗΣ ΕΝΩΣΗΣ (ΕΥΕ) & ΕΛΛΗΝΙΚΗΣ ΕΠΙΤΡΟΠΗΣ ΔΙΑΧΕΙΡΙΣΗΣ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (ΕΕΔΥΠ)
27. Anastasiadis S., Lekkas D.F., Mammias K., (2012) Detection and Statistical Analysis of Severe Drought Events Using Meteorological Drought Definition, Case Study: Greek Region ABSTRACT ACCEPTED EGU General Assembly 2012.
28. Velegrakis A.F., Monioudi I.N., Poulos S.E., Lekkas D.F., Hatzopoulos J.N., Hasiotis Th., Karambas Th., Kontogianni A., Voutsoukas M.I., Andreadis O., Rigos A., Tsekouras G., Psarros F., Ghionis G., Karditsa A., Chatzipavlis A., Anastasiadis S., Kokkoris G., Petrakis S., Tsimplis M.N., Peduzzi P. and Collins M.B. (2013) Physical and economic impacts of sea level changes on the island beaches of the Aegean Archipelago (ISLA); concepts and preliminary results. 13th Int. Conference on Environmental Science and Technology, Athens, Greece.
29. Pechlivanidis I.G., Anastasiadis S. and Lekkas D.F.(2013) Development of a semi-distributed hydrological model toolbox to predict runoff response in the ungauged catchment of Mornos, Greece 13th Int. Conference on Environmental Science and Technology, Athens, Greece
30. Golfinopoulos S.K., Nikolaou A.D., Thomaidis N.S., Stasinakis A., Kotrikla A., Gatidou G.M., Vagi M., Petsas A., Lekkas D.F., Makri C. and Lekkas T.D. (2015) The occurrence of priority substances regulated by 76/464/EEC and 2000/60/EC WFD directives in the surface waters supplying water treatment plants of Athens, Greece 14th Int. Conference on Environmental Science and Technology, Rhodes, Greece
31. Klontza E.E., Giannopoulou K. and Lekkas D.F. (2015) Assessment of different practices for composting the organic fraction of municipal solid wastes 14th Int. Conference on Environmental Science and Technology, Rhodes, Greece
32. Klontza E.E., Kampragkou E., Ververidis K. Papadopoulou M. and Lekkas D.F.(2015) Water-energy saving methodologies for mid-sized tourist lodging units 14th Int. Conference on Environmental Science and Technology, Rhodes, Greece
33. Martha Plexida , Demetris F. Lekkas (2015) SPATIAL ANALYSIS OF THE WATER CONSUMPTION IN THE ATTICA REGION 3ο ΚΟΙΝΟ ΣΥΝΕΔΡΙΟ ΕΛΛΗΝΙΚΗΣ ΥΔΡΟΤΕΧΝΙΚΗΣ ΕΝΩΣΗΣ (ΕΥΕ) & ΕΛΛΗΝΙΚΗΣ ΕΠΙΤΡΟΠΗΣ ΔΙΑΧΕΙΡΙΣΗΣ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (ΕΕΔΥΠ)
34. Klontza E.E., Giannopoulou K., Lekkas D. F., (2015) Assessment of different practices for composting the organic fraction of Municipal Solid Wastes 2nd Environmental Conference of Thessaly, Skiathos Greece
35. Klontza E.E., Giannopoulou K., Lekkas D. F., (2015) Studies on Waste Management on the example of Kalamata Municipality. 5th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, Mykonos, Greece
36. Ioannidis K., Karagrigoriou A., Lekkas D.F.,(2015). Analysis and Simulation of Rainfall Events.28th National Conference of Statistics. Athens Greece
37. Kazamias G., Klontza E.E., Lekkas D.F. (2016) An application of sewage sludge co-composting with organic fraction of municipal solid waste: fate of PAH's and PCB's 5th International Conference on Industrial and Hazardous Waste Management Chania Crete, Greece (September 2016)
38. Kazamias G., Klontza E.E., Lekkas D.F. (2016) Evaluation of composting system plant in Kalamata Municipality 10th International Conference on "Circular Economy and Organic Waste" Heraklion,

39. Lekkas D.F., Klontza E.E., (2017) Performance Evaluation of a Management Scheme in Order to Upgrade the Diversion of MSW: Full Scale Application in Kalamata (Greece) Health and Environment Conference, Innovation Arabia10, 6-8 March 2017 Dubai, UAE <http://www.innovationarabia.ae/wp-content/uploads/2020/10/Health-and-Environment-Conference-2017.pdf#page=225>
40. G Vrettos, G Kazamias, Lekkas DF (2017) Smart compost monitoring system using open source technologies 15th International Conference on Environmental Science and Technology Rhodes
41. Lekkas D.F., Fountoulakis, M. Stasinakis, A. Klontza, E.E. Daskaloudis I. (2019) An integrated methodology for treatment and valorisation of agricultural wastes in Lesvos, Greece 7th International Conference on Sustainable Solid Waste Management Herakleio CRETE
42. Arvanitis T., Razis, I., Lekkas DF., (2018) COMPOSITION OF MUNICIPAL SOLID WASTE IN ATHENS – GREECE 7th International Conference on Engineering for Waste and Biomass Valorisation, WasteEng 2018, July 2-5, 2018, Prague, Czech Republic
43. Lekkas D.F., Klontza E.E., Galogiannis K., Gkoltsiou K., Alexopoulos C. and Cainadas E. (2019), Start-up farm: Skills for future ecofarmers, 16th International Conference on Environmental Science and Technology (CEST2019), 4-7 September 2019, Rhodes, Greece.
44. Dounavis A., Karamanos L., Lekkas D.F., Klontza E.E. (2019), Life cycle assessment of the use of biomass as energy source in Northern Greece, 16th International Conference on Environmental Science and Technology (CEST2019), 4-7 September 2019, Rhodes, Greece.
45. Porzig M. , Baur F. , Wern B. , Lekkas D.F. (2019) SusNisia: Circular economy for biogenic residues for the North Aegean -case studies for Islands of Chios and Lesvos 16 th International Conference on Environmental Science and Technology Rhodes, Greece, 4 to 7 September 2019
46. Lekkas D.F., Fountoulakis M., Stasinakis A., Klontza E.E., I. Daskaloudis I. (2019), An integrated methodology for treatment and valorisation of agricultural wastes in Lesvos, Greece, 7 th International Conference on Sustainable Solid Waste Management, Heraklion, Crete, Greece, June 2019
47. Mathioudakis D., Papadopoulou K., Lytras G., Pavlopoulos C., Dimopoulos N., Niakas S., Melanitou E., Lekkas D., Lyberatos G. A detailed characterization of household Municipal Solid Waste 16th International Conference on Environmental Science and Technology Rhodes, Greece, 4 to 7 September 2019
48. Daskaloudis I., Lekkas D.F., Vakalis S. (2020). Introduction of the "pre-Ranking" Approach as a Multicriteria Analysis Method for Assessing the Suitability of Composts. 29th European Biomass Conference & Exhibition, 26 – 29 April 2020, Marseille 4BV.7.7
49. Polydoropoulou A., Thanopoulou H., Pagoni I., Tsirimpa A., Tsouros I., Lekkas D.F. Klontza E., Zervakis, V., Tragou E., Koutsoubas D., Ventikos N., Lyridis D., Anaxagorou P. Manos N., Parinos C., Skylaki E., Hatzianestis I., (2021) National-scale environmental data analysis for shipping and transport: The National Research Infrastructure EN.I.R.I.S.S.T. PAPER ID: cest2021_00472 17th International Conference on Environmental Science and Technology, Athens, Greece
50. Kelmali AC., Lekkas DF Vakalis S., (2021) Assessing the Environmental Impact of Maritime Transport for the Port of Mytilene with a Focus on the Emission Accounting of the Port of Arrival CEST2021PAPER ID: cest2021_00472 17th International Conference on Environmental Science and Technology, Athens, Greece
51. Koukouli D., Lekkas D.F. (2021) DECREASING PLASTIC WASTE IN TOURISTIC AREAS THROUGH DEPOSIT-REFUND SYSTEM CRETE2021, Greece
52. Bushi A., Klontza E.E., Lekkas D.F. (2021), Ship-generated wastes: the case study of three Greek ports, 7th International Conference on Industrial and Hazardous Waste Management, 27 to 30 July

2021, Chania, Greece.

53. Daskaloudis I., Lekkas D.F., Fountoulakis M. (2021) Assessing the effects of spent coffee grounds on dry anaerobic digestion of kitchen waste. RETASTE: RETHINK FOOD WASTE Conference W2E-54.
54. Nitsiou I., Altiparmaki G., Kotsia D., Lekkas D.F., Stasinakis A., Fountoulakis M.S., (2021) Utilization of Olive Mill Wastewater with Domestic Wastewater for the Production of Biogas and Microalgal Biomass. W2E-180: RETASTE: RETHINK FOOD WASTE Conference
55. Tragou E., Hatzianestis I., Skylaki E., Parinos C., Manos N., Anaxagorou P., Lyridis D., Ventikos N., Koutsoubas D., Polydoropoulou A., Zervakis V., Klontza E.E., Lekkas D.F., Tsouros I., Tsimpa A., Pagoni I., Thanopoulou H. (2021), National-scale environmental data analysis for shipping and transport: The National Research Infrastructure EN.I.R.I.S.S.T., 17th International Conference on Environmental Science and Technology CEST2019, 1 to 4 September 2021, Athens, Greece. <https://doi.org/10.30955/gnc2021.00614>.
56. Orfanou A., Lekkas D.F., Klontza E., Vakalis S. (2022), The role of sustainable waste management in the carbon footprint of pilot cities: Presenting the CO₂ calculator of CompAir, European Citizen Science Association (ECSA) conference 2022, 5-8 October 2022, Berlin.
57. Diamantis D., Xypolias P., Klontza E.E., Lekkas D.F. (2022), Composition analysis of the municipal solid waste generated in Kara Tepe refugee camp in Lesvos, Greece, 9th International Conference on Engineering for Waste and Biomass Valorisation 27-30 June 2022, Copenhagen, Denmark
58. Psomou E., Klontza E.E., Lekkas D.F. (2022) Implementation of Green Deal policies in hotel tourism industry: the case of a luxury hotel in Greece, 9th International Conference on Engineering for Waste and Biomass Valorisation 27-30 June 2022, Copenhagen, Denmark
59. Kalampokidis A., Vakalis S., Liakos D., Klontza E., Lekkas D. (2022), The role of hydrothermal treatment on the production of VFAs for bioplastics: Assessment of extraction methods, 9th International Conference on Sustainable Solid Waste Management, CORFU2022, 15-18 June 2022, Corfu, Greece, <http://corfu2022.uest.gr/posters.html>.
60. Skouloudis Antonis, Malesios Chrysovalantis & Lekkas Demetris-Francis (2022) Antecedents and consequences of consumer satisfaction for bio-based products: Preliminary findings from Greece using structural equation modelling 8th SCIENTIFIC CONFERENCE ON ENVIRONMENTAL ECONOMICS AND NATURAL RESOURCE Athens 2-3 December
61. Kalantzis, D., Daskaloudis, I., Lekkas, D-F., Lacoere, T., De Vrieze, J., Fountoulakis M.S (2022) Effect of granular activated carbon (GAC) addition in a pilot-scale anaerobic digester treating sheep manure and agro-industrial wastewater. 1st International Conference on Sustainable Chemical and Environmental Engineering 31 Aug – 04 Sep 2022, Rethymno, Crete, Greece
62. E. Psomou, E.E. Klontza, D.F. Lekkas (2022) Environmental footprint of the hotel industry in Aegean region - measurement and reduce using circular bioeconomy models 8th International Water Industry Conference (IWIC), 23-25 November 2022 in Daegu, Korea
63. Papamichael I., Voukkali I., Loizia P., Stylianou M., Vardopoulos I., Klontza E.E., Lekkas D.F., Vakalis S., Zorpas A.A., (2023) Measuring Circularity: Tools for monitoring a smooth transition to Circular Economy", [Paper id:080] SBE23-THESSALONIKI
64. Tsaligopoulos A., Kyvelou S., Karapostoli A.I., Klontza E., Lekkas D., Tsintzou T., Matsinos Y. (2023). Circularity-driven urban quietness as an indicator of sustainability. Acoustic Ecology Review, World Forum for Acoustic Ecology, WFAE Conference 2023, Listening Pasts – Listening Futures, Atlantic Center for the Arts, New Smyrna Beach, Florida USA
65. Alexandros Kalampokidis, Eleftheria E. Klontza, Demetris F. Lekkas (2023) Long cycles and high sludge retention time (SRT) for the enrichment and accumulation of PHAs with synthetic medium A1. 7th Green and Sustainable Chemistry Conference Dresden
66. Ioannis Daskaloudis 1, Michail S. Fountoulakis 1, Demetrios F. Lekkas 1 (2023) Enhancing methane

Reviewer for International Journals

Global NEST Journal (associate editor),
Urban Water,
Hydrological Science Journal,
Desalination (reviewer and Guest editor in Special Issue),
Environmental Modelling and Software,
Journal of Water and Climate Change,
Frontiers in Environmental Engineering (FIEE)

International Scientific Organisations

Global Network on Environmental Science and Technology (executive director),
International Association of Hydrological Science
British Hydrological Society
European Water Association
UNEP/IMAP

Conference proceedings

- D.F. Lekkas (editor) 15th International Conference on Environmental Science and Technology”, Rhodes, Greece. ISBN 978-960-7475-53-4, **2017**, σελ 1-516.
- D.F. Lekkas (editor) 16th International Conference on Environmental Science and Technology”, Rhodes, Greece. ISBN 978-618-86292-0-2, 2019, σελ 1-659.
- D.F. Lekkas (editor) 17th International Conference on Environmental Science and Technology”, Athens, Greece. ISBN 978-618-86292-1-9, 2021, σελ 1-645.
- D.F. Lekkas (editor) 18th International Conference on Environmental Science and Technology”, Athens, Greece. ISBN 978-618-86292, 2023.
- D.F. Lekkas (editor) 19th International Conference on Environmental Science and Technology”, Athens, Greece. ISSN 2944-9820, 2025.

EDITORIAL PAPERS

- ED1 Luigi Rizzo, Demetris Francis Lekkas, Sureyya Meriç (2010) Desalination and Water Treatment www.deswater.com 1944-3994/1944-3986, doi:10/5004/dwt.2010.1994
- ED2 Filia Vonta, Demetris-Francis Lekkas Mathematical models and methods for environmental systems and related topics MATHEMATICS IN ENGINEERING, SCIENCE AND AEROSPACE MESA - www.journalmesa.com Vol. 6, No. 4, pp. 599-600, 2015
- ED3 Demetris F. Lekkas Ilias G. Pechlivanidis Christian Onof Foreword: Water Resources, Hydrology and Hydraulics: Bringing together recent developments in technology and applications September 2012 Global NEST Journal 14(3)

- ED4 DF Lekkas, AA Zorpas, V Naddeo, I Voukkali, DE Klontza Navigating the environmental frontiers: Reflections on CEST 2023 conference in Athens Waste Management & Research, <https://doi.org/10.1177/0734242X241231894>
- ED5 Zorpas AA, Lekkas DF. Nexus approach and perspectives in the next generation waste strategies development. Sci Total Environ. 2024 Dec 27:178183. DOI: [10.1016/j.scitotenv.2024.178183](https://doi.org/10.1016/j.scitotenv.2024.178183)

Organisation of Conferences:

1. 19th International Conference on Environmental Science and Technology - CEST2025, 3 - 6 September 2025, Kos Greece <https://cest.gnest.org/>
2. Global Plastic Pollution Systems Symposium - PLASYS24, 2-4 October 2024, Rhodes, Greece <https://www.plasys.earth/>.
3. 18th International Conference on Environmental Science and Technology - CEST2023, 30 August - 2 September 2023, Athens Greece <https://cest2023.gnest.org/>
4. 17th International Conference on Environmental Science and Technology - CEST2021, 1 – 4 September 2021, Athens Greece.
5. 16th International Conference on Environmental Science and Technology - CEST2019, 2-5 September 2019, Rhodes Greece
6. 15th International Conference on Environmental Science and Technology - CEST2017, 30 August - 2 September 2017, Rhodes Greece