

## Curriculum Vitae



### Personal information

Surname / First name **PROFESSOR LOIZIDOU, MARIA**

Address(es) National Technical University of Athens  
School of Chemical Engineering  
Unit of Environmental Science & Technology ([www.uest.gr](http://www.uest.gr))  
9, Heron Polytechniou Str  
157 73 Zografou, Athens

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E-mail [mloiz@chemeng.ntua.gr](mailto:mloiz@chemeng.ntua.gr)

Nationality Greek

Gender Female

### Work experience

Dates 1976

Occupation or position held Chemical Engineer

Main activities and responsibilities Production line

Name and address of employer EURIKA

Type of business or sector Private Industry

Dates 1977 – 1982

Occupation or position held Assistant

Main activities and responsibilities Research – Education

Name and address of employer National Technical University of Athens

Type of business or sector University

Dates 1983 – 1987

Occupation or position held Lecturer

Main activities and responsibilities Research – Education

Name and address of employer National Technical University of Athens

Type of business or sector University

Dates 1987 – 1994

Occupation or position held	Assistant Professor
Main activities and responsibilities	Research – Education
Name and address of employer	National Technical University of Athens
Type of business or sector	University
Dates	1994 – 2003
Occupation or position held	Associate Professor, Head of the Unit of Environmental Science and Technology ( <a href="http://www.uest.gr">www.uest.gr</a> )
Main activities and responsibilities	Research – Education
Name and address of employer	National Technical University of Athens
Type of business or sector	University
Dates	2003 -
Occupation or position held	Professor, Head of the Unit of Environmental Science and Technology ( <a href="http://www.uest.gr">www.uest.gr</a> )
Main activities and responsibilities	Research – Education
Name and address of employer	National Technical University of Athens
Type of business or sector	University

## Education and training

Dates	1974
Title of qualification awarded	B.Sc.
Principal subjects/occupational skills covered	Chemical Engineering
Name and type of organisation providing education and training	University College London
Dates	1975
Title of qualification awarded	M.Sc.
Principal subjects/occupational skills covered	Environmental Engineer - MSc in Environmental technology & science
Name and type of organisation providing education and training	Department of Chemical and Biochemical Engineering, University College London
Dates	1982
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Environmental Engineering
Name and type of organisation providing education and training	University College London

## Personal skills and competences

Mother tongue(s) **Greek**

## MEMBERSHIP OF PROFESSIONAL BODIES

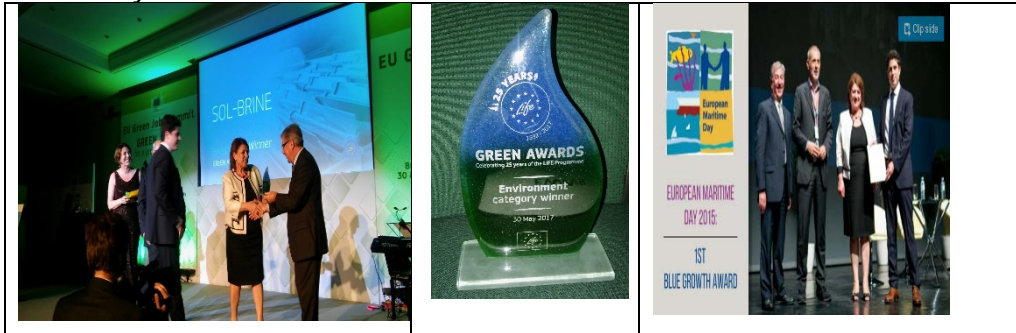
- Member of the International Association on Water Quality (IAWQ)
- Member of the Scientific and Organizing Committee of the International Conference: Marine Pollution of the Mediterranean Sea, organised by the IAWQ
- Member of the International Zeolite Association
- Member of the Technical Chamber of Greece
- Elected Member of the General Assembly of the Technical Chamber of Greece
- Elected Member of the Scientific Committee of Chemical Engineers
- Elected Member of the Environmental Committee of the Technical Chamber of Greece
- Member of the Association of Chemical Engineers (Greece)
- Member of the Association of the Greek Chemists
- Member of the Hellenic Solid Waste Management Association
- Member of the Water Treatment Scientists Association, Cyprus (WTSAC)
- Member of the European Waste Club (EWC)
- Member of the European Topic Center on Waste of the European Environment Agency (EEA)
- Member of the Management Committee of the European Topic Center on Waste and Material Flows of the European Environment Agency (EEA)
- Member of the exam committees of the State Scholarship's
- Head of Greek Waste-to-Energy Research Council - WTERT-Greece

## Indicative Other Scientific or Tutorial Activities & Distinctions

- Environmental Consultant of the Association of Communities and Municipalities of the Attica Region, Ministries, Communities, Municipalities and Private Companies for waste management
- Advisor to numerous European authorities on environmentally related issues including the Directorate General Environment, European Environment Agency (EEA) and Eurostat and has been continuously providing her services to the Greek and Cypriot Ministry of Environment, Energy & Climate Change. She has assisted most of the European countries, prior to their accession to the European Union (EU) to implement the EU Directives related to the Environment. Several non-European governmental authorities have also requested her advice and assistance in key environmental state issues, e.g. MEDA Countries.
- has been teaching Environmental Science and Engineering, Systems for the Environmental Protection and Environmental Management for the last 35 years. She has been the course tutor for the European Master degree in Environmental Management - European Association for Environmental Management Education (EAEME) where 17 profound European Universities participated to support this unique course.
- has organized many special seminars on various environmental issues. She had the supervision of over three hundred & fifty undergraduate diploma theses in the field of environment, the majority being on waste, and she had the supervision of 50 Ph.D. students.
- has been collaborating with a great number of partners, universities, institutes, research centers all around the world
- has served as the **Dean of the School of Engineering** of the Cyprus University of Technology, created and chaired its **Department of Environmental Science & Technology** and an active member of its **Management Board** for several years.
- has organized several international conferences ([http://www.uest.gr/medaware/meda\\_conference/index.htm](http://www.uest.gr/medaware/meda_conference/index.htm), <http://www.uest.gr/kyproconference>, <http://athens2012.uest.gr>, <http://www.uest.gr/win4life/index.php/en>, <http://www.adaptoclimate.uest.gr>, <http://www.athens2014.biowaste.gr>, <http://conference2014.esymbiosis.eu>, <http://www.iwwatv.uest.gr>, <http://www.tinos2015.uest.gr>, [www.cyprus2016.uest.gr](http://www.cyprus2016.uest.gr), [www.athens2017.uest.gr](http://www.athens2017.uest.gr), [www.naxos2018.uest.gr](http://www.naxos2018.uest.gr), [www.heraklion2019.uest.gr](http://www.heraklion2019.uest.gr), <https://conference.adapt2clima.eu>; [www.thessaloniki2021.uest.gr](http://www.thessaloniki2021.uest.gr), etc.
- She has developed international training courses in parallel with the conferences, which attract significant

number of scientists and professionals worldwide.

- has been providing services to the SEVESO Office of the Greek Ministry of Environment, Energy & Climate Change for more than 10 years
- Prof. Loizidou received award from the Institute Environment and Sustainable Development in Cyprus on 4<sup>th</sup> November 2015 in Nicosia for her long and significant contribution to the scientific society and research as well as for her success in getting funding for the country in order to enhance environmental protection and reduce carbon footprint
- **The LIFE SOL-BRINE project that Prof. Loizidou was scientific responsible was selected and voted as the BEST LIFE ENVIRONMENT PROJECT within the whole 25-year period (1992-2017) of LIFE financial instrument of European Commission. The first prize of the GREEN AWARDS among more than 4,000 projects was given by the EC Commissioner Mr. Karmenu Vella during the Green Week in Brussels on 30th May 2017.**



- Her expertise has led to her valuable and continuously updated knowledge and contribution to environmental policy issues on waste, biowaste, waste management as well as circular economy and resource use from drafting to implementing and proposing amendments to laws or regulations. Her career and her expertise have paved the way for others to follow in the field of environmental protection.

### Specializations:

Development of programs for the integrated management of wastewater

Design, application and optimization of lab-scale and pilot-scale systems, including state-of-the-art technologies for the treatment of industrial wastewater and solid waste

Development and application of systems for prevention and control of environmental pollution

Development and application of inventory programs concerning the production of solid waste (municipal and industrial) and industrial wastewater

Development of appropriate schemes for the integrated management of municipal solid waste in local and national level

Development of best management schemes for the integrated management of special types of solid waste (batteries, plastics, used oils, used tires, end-of-life vehicles demolition waste etc) at local and national level

Development of appropriate schemes for the integrated management of hazardous waste at local and national level

Development and application of appropriate decision support tools for the management of solid waste

Development and application of decision support tools for the selection of the appropriate site for the installation of waste and wastewater treatment plants

Development and application of decision support systems for the estimation and the time prediction of the pollution in contaminated sites

Environmental impact assessment

Development of simulation models and other software tools

Life-Cycle analysis, eco-design end-of-life management of various products

Integrated product policy

Air Pollution and pollution prevention and control

Energy Engineering: Energy conservation in the industry. Renewable energy systems: Geothermal, Biomass, Solar, and Wind. Energy Co-generation. Coal Combustion, Gasification and liquefaction. Biomass Gasification

Process Engineering: Process Design of environmental systems; Simulation of environmental and chemical systems; Environmental process synthesis; Reaction synthesis; optimisation of single and multiple objectives; Modelling and control of polymerisation reactors; dynamic simulation of systems

Safety Management Systems for Major Accidents Hazards

## INDICATIVE PROJECTS

She has been the coordinator of numerous international and national projects, **more than 200**. Indicative projects:

1. "Air Pollutants Transport from Thriassion Valley to the Main Athens Basin", Borough of Nikea, Athens, 1985.
2. "A Study on the Industrial Effluents in the Greater Athens Area", Ministry of Planning, Housing and the Environment, 1985.
3. "The Production and Use of Compost from Municipal Refuse", Association of the Communities and Municipalities of the Attica Region, Athens, 1987.
4. "Air Pollution from the Colgate-Palmolive Plant and the Effect on the Environment", Colgate-Palmolive, Athens, 1988.
5. "Environmental Pollution from Petrochemical Waste"  
Association of the Communities and Municipalities of the Attica Region", Athens, 1988.
6. "Atmospheric Pollution in the Athens area".  
Ministry of Planning, Housing and the Environment, Athens, 1989.
7. "Indoor Air Pollution of the Medical Centres of the Attica Region"  
Ministry of Health, Welfare and Social Security, 1989.
8. "An Assessment on the Indoor Air Pollution, NO<sub>2</sub>, SO<sub>2</sub>, Smoke for the Houses in the Athens Area"  
Ministry of Health, Welfare and Social Security, 1989.
9. "Volatile Organic Compounds in the Indoor Environment"  
Ministry of Health, Welfare and Social Security, 1989.
10. "Evaluation of the Biogas and fill Material of the Liosia Landfill".  
Prepared for the Ministry of Interior and the Association of Communities and Municipalities of the Attica Region, 1990.
11. "Effect of Leachate from a Landfill on the Underground Waters"  
Prepared for the Ministry of Interior and the Association of Communities and Municipalities of the Attica Region, 1990.
12. "Environmental Impact Assessment of the Gaseous Emissions of the Liosia Landfill"  
Association of Communities and Municipalities of the Attica Region, 1990.
13. "Design and Construction of a new Ozonesonde"  
Secretary General for Research and Technology, GR.
14. "An Assessment on the Nitrogen Dioxide for the Indoor House Environment"  
Ministry of Health, Welfare and Social Security, 1990.
15. "Ozon Levels of the Indoor Air in Hospitals"  
Ministry of Health, Welfare and Social Security, 1990.
16. "Evaluation of the Environmental state of River Louros, Preveza"  
County of Preveza, 1991.
17. "Waste from mining activities and impact on environment"  
Kassandra Mines, Chalkidiki, 1990.
18. "Physical-chemical, Biological Treatment of Landfill Leachate"  
Ministry of Research and Technology, 1992
19. "National Network of Environment Informatics"  
Ministry of Environment and Public Works, 1992.

20. "Study of the Colgate-Palmolive Company Effluents and their Treatment"  
Athens, NTUA, 1992.
21. "Study of the marine environment in the vicinity of the outfall of the central sewage system"  
Athens Academy, 1993.
22. "Effect of cement pipes on drinking water"  
Ministry of Health, Welfare and Social Security, 1993.
23. "Assessment of Marine Environment in Tourist Areas"  
Ministry of Health, Welfare and Social Security, 1993
24. "Management of Hospital Waste"  
Ministry of Health, Welfare and Social Security, 1994.
25. Assessment on Industrial Waste at national level, Cyprus 1994, Ministry of Labour and Social Investments.
26. "Indoor Air Quality"  
DG XII Joule Programme, 1994.
27. European Data Base for Indoor Air Pollution VOCs Sources in Buildings  
DG XII, Joule II Programme, Sub-programme Energy Conservation and Utilization, The Commission of the European Communities, 1994.
28. New Stabilization/Solidification Technologies for the Prevention of Underground Water Contamination from Industrial Waste  
DG XII AVICENNE, 1995
29. ECOSIM - Ecological and environmental monitoring and simulation system for management decision support in urban areas.  
Environment and Telematics, DGXIII, 1995.
30. Environmental impact assessment study from the establishment of a mechanical recycling plant and landfill in the East-West part of the Attica Region.  
Association of Communities and Municipalities of the Attica Region, 1996.
31. Environmental impact assessment study from the establishment of a mechanical recycling plant and landfill in the Northern part of the Attica Region.  
Association of Communities and Municipalities of the Attica Region, 1996.
32. Development of an inventory of industrial wastewaters at a national level  
Ministry of Environment, Regional Planning and Public Works, 1996.
33. Development of a methodology for implementation of SEVEZO Directive - Evaluation of the hazards caused by major accidents in the greater area.  
Ministry of Environment, Regional Planning and Public Works, 1996.
34. Development of an inventory of VOC emissions from industrial and related facilities  
Ministry of Environment, Regional Planning and Public Works, 1996.
35. Implementation of the integrated pollution prevention and control directive (IPPC).  
Ministry of Environment, Regional Planning and Public Works, 1996.
36. Integrated emissions inventories for industrial wastes in Viotia region, Greece - Design of a centralized facility for waste treatment.  
Ministry of Environment, Regional Planning and Public Works, 1997.
37. Study of Environmental Impact Assessment at the technological park of Lavrio.  
Committee for the Technological Park of Lavrio, 1996.

38. Management of chemical substances in Greece  
Chemical Safety International, 1996.
39. Evaluation and use of compost produced from sludge and the organic fraction of municipal waste.  
Association of Communities and Municipalities of the Attica Region, 1996.
40. Process development for the removal of heavy metals from the sewage sludge.  
Secretary General for Research and Technology, 1996.
41. The effectiveness of instruments for environmental policies in the field of industry regulating packaging and transport of hazardous waste.  
DG XII, INSTRUFECT, 1996.
42. Evaluation of the emissions and hazards caused by major accidents inside the industrial units.  
Ministry of Development, 1997.
43. Waste management of Aegean islands, Ministry of Aegean, 1997
44. Municipal waste management in Paphos, Local authorities of Paphos, Cyprus, 1997.
45. Preliminary Research on the Development of an Inventory of Solid Wastes at National Level, Ministry of Environment, Regional Planning and Public Works, 1997
46. Development of Technical Specifications for a Municipal Waste Thermal Processing Unit Installation in the Island of Aigina.  
DGXVI, Cohesion Fund, 1997.
47. MEDACT (Mediterranean Action), LIFE Programme DG XI, 1997-1998
48. Survey of Occupational Problems and Risks Related to Indoor Conditions in Hospitals Operating Rooms, Ministry of Labour, 1997- 1999
49. Technical Development and Demonstration of closed-loop procedures in electroplating and metal chemistry using solar energy or waste heat to avoid wastewater and to minimize solid waste which can be utilized, DG XII, INCO DC, 1998-2000.
50. Integrated Control of Industrial Pollution and Chemical Substances in Cyprus, Life-Third Countries, European Commission, Directorate General XI, 1998-2001.
51. Improvement of compost quality produced from municipal waste and sludge, Institution of Geological and Mining Research, 1998-1999
52. Development of an Integrated Management Scheme for Municipal and Industrial Wastes at National Level, Ministry of Environment, National Planning and Public Works, 1998.
53. Development of a Plastic Recycling Scheme, Association of Communities and Municipalities of the Attica Region (ACMAR), 1998-1999
54. Design and development of a database concerning the waste management in Greece, Secretary General for Research and Technology, 1999
55. Assessment of the quality of hospital waste in Attika Region, Greece  
Company ANSALDO-ΕΠΤΟΚΑΤ, 1999.
56. Environmental Impact Assessment for the RDF thermal treatment unit produced from the waste recycling plant in Athens, Greece  
Association of Communities and Municipalities of the Attica Region (ACMAR), 1999.
57. Preliminary research on the installation of a mechanical recycling plant in the area of Ano Liosia, Greece  
Association of Communities and Municipalities of the Attica Region (ACMAR), 1999.

58. Development of a demonstration plasma gasification / vitrification unit for the treatment of hazardous wastes  
Life Programme DG XI, 1998-2002
59. Hazardous waste management plan on national level and development of technical specifications for the management of hazardous waste and waste oils.  
ETERPS Ministry of Environment, Regional Planning and Public Works, 1999-2002.
60. Safety Management Systems for Major Accidents Hazards in Small and Medium Enterprises, SMMARTEN  
DGXII, 1999-2001
61. Development of a methodology for the inventory of industrial wastewater at a national level  
Ministry of Environment, Regional Planning and Public Works, 1999-2001
62. Development of an Integrated Scheme for the management of solid waste produced in Cyprus  
Ministry of Environment, Regional Planning and Public Works, 2000
63. Strategic management scheme and technical specifications for the management of solid waste (hazardous and non hazardous) in Cyprus  
Cypriot Ministry of Agriculture, Natural Resources and the Environment, 2000-2002
64. Development of Research activity regarding the waste management in Europe  
European Environmental Agency, 2001-2004
65. Design, construction, and operation of a pilot plant for the composting of the liquid waste of oil-factory  
Research Promotion Foundation of Cyprus, 2001-2003
66. Development and implementation of methodology for the management of industrial sludge which contains hazardous substances  
Research Promotion Foundation of Cyprus, 2001-2003
67. Provision of advice services for the establishment of management system regarding packaging materials and their waste  
Cypriot Ministry of Agriculture, Natural Resources and the Environment, 2001
68. Collection of data related to the waste produced by:  
Constructions, demolitions and excavations  
Mining and quarrying activities"  
Eurostat, 2002-2003
69. "Preparation of a feasibility study for the management of hazardous waste in Armed Forces of Greece", General Headquarters of Air Forces of Greece, 2002
70. "Development of tools and guidelines for the promotion of the sustainable urban wastewater treatment and reuse in the agricultural production in the Mediterranean countries (MEDAWARE)", Euro-Mediterranean Partnership, MEDA projects, European Commission, 2003-2007 ([www.uest.gr/medaware](http://www.uest.gr/medaware))
71. "Development and Implementation of an Integrated System for the Control and Monitoring of the Urban Wastewater Treatment Plants in Cyprus (LIFE-3rd Countries)", European Commission, 2003-2005
72. "Development of methods and tools for the collection of information related to generation and management of i) basic metals waste and ii) inorganic fertilizers waste", Eurostat, 2003-2004
73. "Implementation of the integrated prevention and pollution control Directive (IPPC) in Slovak Republic", Twinning Project, SK/02/IB/EN/02, 2004 – 2005
74. 'Development of best management systems for high priority waste streams in Cyprus, KYPROS', LIFE 3rd-Countries Project, 2004- 2006 ([www.uest.gr/kypros](http://www.uest.gr/kypros))
75. Investigation and optimization of systems employing zeolite and other minerals for environmental applications",



Ministry of Education and Religions, Pythagoras Programme, 2004-2006

76. 'Promotion and Implementation of Systems for the Production of High Quality Compost from Biodegradable Household Waste separated at Source, COMWASTE', LIFE Environment Project, 2003- 2006 ([www.uest.gr/comwaste](http://www.uest.gr/comwaste))
77. "Integrated Product Policy in the Telecommunication Sector, IPP-TEL", LIFE Environment Project, 2004- 2007 (<http://www.ipp-tel.gr/>)
78. "Starting with the promotion of IPP approach in Mediterranean countries", LIFE Environment Project, 2004- 2007 (<http://www.startipp.gr/>)
79. Sustainable Construction in Public and Private Works through IPP approach, LIFE Environment Project, 2005 – 2008, ([www.uest.gr/suscon](http://www.uest.gr/suscon))
80. Promotion of integrated environmental and safety management practices for industry in the Kaliningrad Region European Commission, LIFE-3rd Countries, 2006 – 2008 (<http://www.esmak.ru/esmak/index-en.php>)
81. Design and Application of an Innovative Composting Unit for the Effective Treatment of Sludge and other Biodegradable Organic Waste in Morocco, LIFE-3rd Countries, 2006 – 2008 ([www.uest.gr/Morocomp](http://www.uest.gr/Morocomp))
82. Implementation and enforcement of the environmental Acquis focused on domestic waste management – REPA Bacau, European Commission, Twinning Project RO 2004/IB/EN/06, 2006 – 2007
83. The Mediterranean Islands sustainable Iso-based plan "2006-2015", MED\_ISOLAE, Interreg Project, European Commission, European Regional Development Fund, 2006-2008
84. Management and Valorisation of Solid Domestic Waste for the Small Urban Communities in Morocco, LIFE-3rd Countries, 2007 – 2009 ([www.uest.gr/wastesum](http://www.uest.gr/wastesum))
85. Capacity Building of State Hazardous Waste Management Agency, European Commission, Twinning Light Project LV 2006/IB/EN/01 TL, 2007-2008
86. Assistance in promoting solutions regarding recycling and use of recycled materials from End-of-Life Vehicles, EuropeAid/122959/D/SER/RO, 2007-2008
87. Waste Network for sustainable solid waste management planning and promotion of integrated decision tools in the Balkan Region, BALKWASTE, LIFE07/ENV/GR/686, LIFE+, Environment Policy and Governance, 2009 ([www.balkwaste.eu](http://www.balkwaste.eu))
88. Integrated management of industrial wastewater and sewage of the greater area of Oinofita - Sximatari, 2009, Ministry of Environment
89. Preparation of Solid Waste Management Measures in Levski, Borovo, Veliko Tarnovo and Varna Regions (EuropeAid/124485/D/SV/BG), 2009-2010, Ministry of Environment and Water in the Republic of Bulgaria (in collaboration with ENVIROPLAN SA & KOCKS)
90. Pilot application of thermal waste treatment system using plasma technology on Mykonos, 2009 – 2010
91. Development and Application of Model Processing System for brackish water to drinking water to communities in Jordan, Greek Ministry of Exterior, 2009 – 2013 (<http://uest.ntua.gr/brawa>)
92. Development and demonstration of an innovative household dryer for the treatment of organic waste, DRYWASTE, European Commission, LIFE+, LIFE08 ENV/GR/000566, 2010 – 2012 ([www.uest.gr/drywaste](http://www.uest.gr/drywaste))
93. Demonstration of an integrated waste-to-energy system for energy generation from biodegradable organic waste and wastewater, INTERWASTE, European Commission, LIFE+, LIFE 08/ENV/CY/00457, 2010 – 2013 ([www.interwaste.org](http://www.interwaste.org))

94. New generation, high energy and power density supercapacitor based storage system, HESCAP, European Commission, FP7, 2010 – 2012 ([www.hescap.eu](http://www.hescap.eu))
95. Strategic Planning Towards Carbon Neutrality in Tourism Accommodation Sector, CARBONTOUR, European Commission, LIFE+, LIFE09 ENV/GR/000297, 2010-2012 (<http://uest.ntua.gr/carbontour>)
96. Development of an advanced innovative energy autonomous system for the treatment of brine from seawater desalination plants, SOL-BRINE, European Commission, LIFE+, LIFE09 ENV/GR/000299, 2010-2013 (<http://uest.ntua.gr/solbrine>)
97. Development of knowledge-based web services to promote and advance Industrial Symbiosis in Europe, ESYMBIOSIS, European Commission, LIFE+, LIFE09 ENV/GR/000300, 2010-2014 (<http://www.esymbiosis.gr>)
98. Study for the optimization of the production processes and waste management in the Hellenic Air Corporation, Hellenic Air Corporation, 2010 – 2011
99. Research and Revision of the Peripheral Planning for the Management of Solid Waste in Crete, Crete Region, 2010-2011
100. Research and Strategic Environmental Assessment Study for the Peripheral Planning for the Management of Solid Waste in Crete, Crete Region, 2010 – 2011
101. Integrated management of bio-waste in Greece – The case study of Athens, ATHENS-BIOWASTE, European Commission, LIFE+, LIFE10 ENV/GR/000605, 2011-2014 ([www.biowaste.gr](http://www.biowaste.gr))
102. Development of a national strategy for adaptation to climate change adverse impacts in Cyprus, CYPADAPT, European Commission, LIFE+, LIFE10 ENV/CY/000723, 2011-2014 (<http://uest.ntua.gr/cypadapt/>)
103. Development and implementation of a demonstration system on Integrated Solid Waste Management for Tinos in line with the Waste Framework Directive, ISWM-TINOS, European Commission, LIFE+, LIFE10 ENV/GR/000610, 2011-2015 (<http://iswm-tinos.uest.gr>)
104. Development and demonstration of an innovative method of converting waste into bioethanol, European Commission, Waste2Bio, LIFE+, LIFE11 ENV/GR/949, 2012-2016 ([www.waste2bio.eu](http://www.waste2bio.eu))
105. Development and demonstration of an ecological, innovative system for in house waste recycling, European Commission, Recycling@Home, LIFE+, LIFE11 ENV/GR/950, 2012-2015 ([www.recyclingathome.eu](http://www.recyclingathome.eu))
106. Development and application of environmental management systems in the framework of Integrated Product Policy at the industrial sectors of textile and food production, IPP-TEXFOOD, General Secretariat for Research & Technology, 2012-2015 (<http://ipp-texfood.uest.gr>)
107. Development of an innovative, compact system that combines biological treatment technologies for the sustainable and environmental management of organic waste streams that are produced from different types of food processing industries, FOODINBIO, ARISTEIA, 2012-2015 (<http://foodinbio.uest.gr>)
108. Development of a system for the integrated management of municipal solid waste of the Municipality of Sparti, Municipality of Sparti, 2014
109. Development of a system for the integrated management of the separated at source biowaste in the Municipality of Heraklion in Attica, 2014-2015
110. Research project for the determination of the optimum integrated management scheme for biowaste and green waste of the Municipality of Dionysos, 2015
111. Integrated management of biowaste of the Municipality of Athens, 2016-2017

112. Research for the development and the design of an integrated scheme for the management of the solid waste generated in Naxos, Municipality of Naxos & Small Kyklades, 2015-2016.
113. Investigation of the optimum integrated management scheme for municipal solid waste in the Municipality of Amariou targeting at waste utilization, 2016-2017
114. Sustainable management of livestock waste for the removal/recovery of nutrients, LIVEWASTE, European Commission, LIFE+, LIFE12 ENV/CY/000544, 2013 – 2016 ([www.livewaste.org](http://www.livewaste.org))
115. Development of an integrated strategy for reducing the carbon footprint in the food industry sector, FOODPRINT, European Commission, LIFE+, LIFE13 ENV/GR/000958, 2014-2018 ([www.foodprint.gr](http://www.foodprint.gr))
116. Demonstrating resource efficiency through innovative, integrated waste recycling schemes for remote areas, PAVEtheWAYSTE, European Commission, LIFE+, 2015-2021 ([www.pavethewayste.eu](http://www.pavethewayste.eu))
117. Adaptation to Climate change Impacts on the Mediterranean islands' Agriculture, ADAPT2CLIMA, European Commission, LIFE+, LIFE14 CCA/GR/000928, 2015-2020 ([www.adapt2clima.eu](http://www.adapt2clima.eu))
118. Tool to Reduce waste in South Europe, PAYT, European Commission, LIFE, LIFE15 ENV/PT/000609, 2016-2021 (<http://www.life-payt.eu/en>)
119. Low energy treatment technology for leachate valorization, LEACHLESS, European Commission, LIFE, LIFE15 ENV/ES/000530, 2016-2020 (<http://lifeleachless.eu/en>)
120. Climate Proofing Urban Municipalities, UrbanProof, LIFE, LIFE15 CCA/CY/000086, 2016-2021 (<http://urbanproof.eu/el/>)
121. No Agro-Waste: Innovative approaches to turn agricultural waste into ecological and economic assets, NoAW, HORIZON Project, 2016-2021 (<http://noaw2020.eu>)
122. Zero-Brine: Re-designing the value and supply chain of water and minerals: a circular economy approach for the recovery of resources from saline impaired effluent (brine) generated by process industries, HORIZON Project, 2017 – 2021
123. Adding Sustainability to the fruit and vegetable processing industry through solar-powered algal wastewater treatment, ALGAECAN, European Commission, LIFE, LIFE16 ENV/ES/000180, 2017-2021.
124. Demonstration of water loops with innovative regenerative business models for the Mediterranean region, H2020, HYDROUSA, 2018-2022.
125. WAYSTUP!: Value chains for disruptive transformation of urban biowaste into biobased products in the city context, HORIZON 2020, 2019-2023
126. Sustainable biogas purification system in landfills and municipal solid wastes treatment plants, LIFE BIOGASNET, LIFE18 ENV/ES/000426, 2019-2023 (<https://biogasnet.eu>)
127. Demonstration of an advanced technique for eliminating coal mine wastewater (brines) combined with resource recovery, LIFE BRINE-MINING, LIFE18 ENV/GR/000019, 2019-2023 (<https://brinemining.eu>)
128. A circular economy system for multi-source biomass conversion to added value products, LIFE CIRCforBIO, LIFE18 CCM/GR/001180, 2019-2023 (<https://circforbio.eu>)
129. ECO-WINERY: Eco-innovation for the production of low environmental footprint wine, Research Promotion Foundation, 2019-2021
130. Provision of scientific support for the design of a pilot gasification unit for waste residues, Crete Region, 2020-2021
131. Research for the development of an integrated plan for dealing with the pollution caused by the operation of mills/pomace units, Region of Peloponnesus 2021

132. Next generation water-smart management systems: Large scale demonstrations for a circular economy and society, H2020, WATER-MINING, 2020-2024.
133. NEWFEED: Turn food industry by-products into secondary feedstuffs via circular-economy schemes, PRIMA, 2021-2025
134. WALNUT: Closing waste water cycles for nutrient recovery, H2020, 2021-2025

## PUBLICATIONS

### Indicative Publications in International Journals

1. R.P. Townsend, M. Loizidou  
Ion exchange properties of natural clinoptilolite, ferrierite and mordenite: 1. Sodium - Ammonium equilibria. *Zeolites*, 4, p.p. 191-195, (1984).
2. M. Loizidou, R.P. Townsend  
Ion exchange properties of natural clinoptilolite, ferrierite and mordenite: 2. Lead - Sodium and Lead -Ammonium equilibria. *Zeolites*, 7, p.p. 153-159, (1987).
3. M. Loizidou, R.P. Townsend  
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**b. Indicative Publications in International Conferences**

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356. S. Vakalis, K. Moustakas, M. Loizidou, The 3T method as an assessment tool for comparing different waste management strategies, WASTEENG 2018, Prague, 2-5 July 2018
357. M. Loizidou, FOOD WASTE: from an environmental problem to a valuable resource, WASTEENG 2018, Prague, 2-5 July 2018
358. G. Konstantzos, D. Malamis, K. Moustakas, M. Loizidou, The role of municipalities in successful implementation of adaptation plans, 2nd ADAPTtoCLIMATE Conference, Heraklion, Crete, 24-25 June 2019 (<http://conference.adapt2clima.eu>)
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360. G. Konstantzos, A. Vasilopoulos, I. Antoniou, F. Salta, K. Moustakas, D. Malamis, M. Loizidou, FOODPRINT: a novel tool for measuring and monitoring carbon footprint in food industries, 2nd ADAPTtoCLIMATE Conference, Heraklion, Crete, 24-25 June 2019 (<http://conference.adapt2clima.eu>)
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363. M.E. Taheri, E. Salimi, E.M. Barampouti, S. Mai, K. Moustakas, D. Malamis, M. Loizidou, Valorization of

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366. A. Vasilopoulos, F. Salta, G. Konstantzos, E. Moschopoulou, K. Moustakas, M. Loizidou, Towards a circular economy in food industries, HERAKLION 2019 7th International Conference on Sustainable Solid Waste Management, Heraklion, Crete, 26-29 June 2019 ([www.heraklion2019.uest.gr](http://www.heraklion2019.uest.gr))
367. V. Stoumpou, J. Novakovic, N. Kontogianni, E.M. Barampouti, S. Mai, K. Moustakas, D. Malamis, M. Loizidou, Assessing straw digestate from anaerobic digestion as feedstock for sugars production, HERAKLION 2019 7th International Conference on Sustainable Solid Waste Management, Heraklion, Crete, 26-29 June 2019 ([www.heraklion2019.uest.gr](http://www.heraklion2019.uest.gr))

### c. Indicative Other Conferences - Seminars

368. M. Loizidou  
Lead, cadmium and ammonium uptake by natural zeolites.  
3rd Seminar for the Environmental Protection "Pollution and Protection of Water", Laboratory of Pollution Control - University of Thessaloniki, The German Institute Goethe, Thessaloniki, November 1984.
369. M. Loizidou  
Combustion and Pyrolysis of municipal refuse.  
Seminar of the Association of Communities and Municipalities of the Attica Region, Athens, October 1984.
370. M. Loizidou  
Pollution of the Eleusis Bay.  
Seminar for the Environmental Pollution, Cyprus Chemist Association, Nicosia, 1985.
371. A. Loukatos, P.O. Sakellaridis, M. Loizidou  
Removal of chromium by natural zeolites.  
11th Greek Chemistry Conference, "Health and Chemistry", Athens, A(80), 1986.
372. M. Varinou, M. Loizidou, C. Varotsos  
Effects of NO<sub>2</sub> and H/C on the ozon concentration.  
5th Greek Symposium of the Physics Society, Athens, December 1989.
373. M. Varinou, M. Loizidou, C. Varotsos  
A study on the ozon concentration of a urban area.  
In Prof. L. Karapiperis Memory Book, Athens University, 1990.
374. D.N. Asimakopoulos, G. Kallos, D.P. Lalas and M. Loizidou  
Determination of the conditions related to the air-pollution episodes in the Greater Athens area.  
Archives of the Greek Medical Society, Vol.7, No.2, p.86-96, 1990.
375. M. Loizidou  
Industrial Activity and Impact on the Coastal Zone. Case Study.  
Seminar of Civil Engineering Dept. NTUA, "Management of the coastal zones", Athens, December 1990.
376. M. Loizidou, A. Papadopoulos, E.G. Kapetanios  
Leachate characterization and treatment.  
7th Seminar for the Protection of the Environment from Industrial Toxic and Urban Wastes Pollution.  
University of Salonika, Goethe German Institute, Seminar Proc. p.121-134, November 1991.



377. M. Loizidou, K.J. Haralambous, M.I. Loizides  
Industrial Effluents Quality and Treatment.  
7th Seminar for the Protection of the Environment from Industrial Toxic and Urban Wastes Pollution.  
University of Salonika, Goethe German Institute, Seminar Proc. p.147-161, November 1991.
378. M. Loizidou  
Waste Management in Greece  
European Conference - Waste Management in the European Union - Legal Status - Technical Aspects - Existing Situation - Athens, Sept. 1995.
379. A. A. Zorpas, Th. Konstantinides, T.A. Zorpas, A. G. Vlyssides, K.J. Haralambous, M. Loizidou, Composting. An alternative method of solid waste management, Second Greek Scientific Conference of Chemical Engineering, Aristotle University of Thessaloniki, 27-29/5/1999.
380. D. Fatta, A. Papadopoulos, F. Kourmoussis, K. Moustakas, A. Mentzis, E. Sgourou, M. Loizidou, 'Development and use of indicators for the presentation of information regarding the waste generation and management in Europe' Conference of Chemical Engineering, Patra, Greece, 29th –31st May 2003
381. A. Papadopoulos, D. Fatta, Parperis, K. Moustakas, A. Mentzis, M. Loizidou, 'Removal of Ni from wastewater generated by plating industry using natural clinoptilolite', Conference of Chemical Engineering, Patra, Greece, 29th –31st May 2003
382. V.J.Inglezakis, M.D.Loizidou and H.P.Grigoropoulou, Pb<sup>2+</sup> and Cr<sup>3+</sup> Removal Using Natural and Modified Clinoptilolites, 5th Pan Hellenic Conference of Chemical Engineering, Patras, pp.1021-1024 (2003)
383. D. Fatta, A. Papadopoulos, A. Mentzis and M. Loizidou, "Assessment of the existing situation regarding the urban wastewater treatment and reuse in Cyprus, Morocco, and Lebanon", 5<sup>th</sup> National Conference of EEDYP for the Integrated Management of Water Resources based on river basins, Xanthi, Greece, 6-9 April 2005.
384. Maria Loizidou, Industrial symbiosis for the promotion of sustainable development: The case of the eSYMBIOSIS project, «Development and business prospects in Thessaly from the symbiotic utilization of agricultural and industrial solid waste for the production of materials and energy», Monday 24th November 2014, Technical Educational Institute of Thessaly, Larisa.
385. Maria Loizidou, "The ATHENS-BIOWASTE Initiative", Seminar, organised by the Association of Composting Enterprises and the Ecological Recycling Society under the auspices of the Hellenic Recycling Organisation, the City of Athens and the International Social Economy Network Reuse with title: "Composting and Alternative Waste Management by Local Authorities", Amphitheater of the Municipality of Athens & INNOVATHENS Building at Technopolis in Gazi, 26-28 November 2014
386. Maria Loizidou, Industrial Symbiosis & Sustainable Development, Sunday 21st December 2014, Event "Sustainability & Circular Economy" Athens Money Show, Hilton Hotel
387. Maria Loizidou, "Biowaste Management: The ATHENS-BIOWASTE Initiative", WASTE & RECYCLING Conference, Maroussi Plaza Amphitheatre, 29th January 2015 (<http://www.wasteandrecycling.gr/default.asp?pid=4&la=1>)
388. Maria Loizidou, "Waste Management: The role of Citizens" ATHENS-SCIENCE FESTIVAL, Technopolis in Gazi, 20th March 2015
389. Maria Loizidou, "Biowaste Management at municipal level: The ATHENS-BIOWASTE project", Thessaloniki, 2nd April 2015
390. Maria Loizidou, Technological developments for the management of biowaste, 1st Waste Management Forum, The Swedish example; turning Waste into a resource, 24th April 2015, 2016, Radisson Blu Park Hotel, Athens

- 391.M. Loizidou, The Zero Waste Concept towards integrated waste management (Greece), Athens 2015 International Landfill Mining Conference, Divani Palace Acropolis Hotel, Athens, 24-25 September 2015
- 392.Maria Loizidou, Modern technologies for waste management / utilization, CITY CONNECT: FORUM & EXHIBITION, Saturday 27 February 2016
- 393.Maria Loizidou, Prospects and limitations in adopting zero waste strategies in Greece, 2nd Waste Management Forum, Sustainable Solid Waste Management Systems, Wednesday May 18, 2016, Radisson Blu Park Hotel, Athens