

Curriculum Vitae



Evangelos Gidakos, Full Professor (em.)

President and CEO of the Company for the Exploitation & Management of the Property and Technological Park of the Technical University of Crete

Personal Data

Date of Birth:	17/02/1952
Birth Place:	Kanalia - Karditsa, Greece
Nationality:	Greek
Family Status:	Married - two children
Work Address:	Technical University of Crete School of Environmental Engineering, P.C. 73100, Chania, Crete, Greece
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Higher Education

Studies

1977 – 1980: University of Hamburg

Faculty of Physical Sciences - Department of Phycochemistry

Doctor rer. nat. on Material and Environment Technologies

Thesis: «Mahltribologische Untersuchungen zur Wasserstoffversprödung des Eisens»

Grade: Excellent

Supervisors: Prof. Dr. A. Knappwost, Prof. Dr. F. Thieme

Note: This thesis has been published as a book and is available at the following libraries:

- Center for Research Libraries, Chicago, IL, USA
- Staats-und Univeritätsbibliothek, Göttingen, Germany
- University Library, Utrecht, The Netherlands

1971 – 1977: University of Hamburg

Faculty of Physical Sciences - Diploma in Physics

Distinctions

2018: **Award of Excellence as a Professor** for the year 2018 in recognition of his research work and achievements in the field of toxic and hazardous waste treatment and disposal by the Technical University of Crete.

2018: **Election as President of the International Waste Working (IWWG)** for the period 2021-2022 and Vice-President for the Period 2019-2020.

2017: **Chairman of the International Waste Working Group (IWWG) Task Group Leaders**

2015: **Member of International Waste Working Group (IWWG) Managing Board**

2008: International Conference CONSOIL 2008, Milan, Italy - Award Prize

2005: International Conference CONSOIL 2005, Bordeaux, France - Award Prize

2002: Organization of Greek Scientists in Germany, Honorable Discrimination, Frankfurt, DE

1999-1989: Battelle Ingenieurtechnik, Frankfurt, DE – **Award of excellence for the remediation of the military airport FLIEGERHORST – US AIR FORCE / US NAVY**

Battelle Memorial Institute, Columbus, Ohio, USA

Several discreminations and awards for the conduction of different research programs

- 1989: Freie und Hansenstadt Hamburg – Internationales Umweltkongress, Hamburg, DE
- 1978-1980: GKSS-Forschungszentrum Geesthacht, Geesthacht, DE - Scholarship for PhD studies
- 1976: University of Hamburg, Hamburg, DE - Scholarship for Thesis conduction
- 1971: Studienkolleg der Universität Hamburg

Attendance of Educational Specialization Programs (1991-1994)

- Attendance of Specialization Programs on the following fields:

- Waste Management and Treatment
- Waste Disposal (Toxic, Explosive and Radioactive Waste)
- Remediation of Contaminated Soils and Groundwater
- EXXON VALDEZ accident, Alaska

at the following Technological and Research Centers

1. Battelle Memorial Institute, Columbus, Ohio, USA
2. Pacific Northwest National Lab. (PNNL) Richland, Washington, USA
3. Battelle Ocean Science, Duxbury, Massachusetts, USA

Professional Experience

- 2019-today: **Emeritus Professor**
School of Environmental Engineering
Technical University of Crete (Greece)
“Toxic and Hazardous Waste Treatment and Disposal”
- 2009-2019: **Full Professor**
School of Environmental Engineering
Technical University of Crete (Greece)
“Toxic and Hazardous Waste Treatment and Disposal”
- 2002-2009: **Associate Professor**
Department of Environmental Engineering
Technical University of Crete (Greece)
“Toxic and Hazardous Waste Treatment and Disposal”
- 1997 – 2002: **Vice-President and Director**
Battelle Ingenieurtechnik
Eschborn (Germany)
- 1993 – 1997: **Director**
Environmental Engineering Department
Battelle Institute
Eschborn (Germany)
- 1985 – 1993: **Director Researcher**
Environmental Systems and Technologies Department
Battelle Institute
Frankfurt (Germany)
- 1980 – 1985: **Scientific Associate / Researcher**
Research Centre GKSS-Forschungszentrum Geesthacht
Geesthacht (Germany)
- 1977 – 1980: **Scientific Associate**
University of Hamburg
Hamburg (Germany)

Member of Scientific and Professional Organizations

- IWWG:** International Waste Working Group (*Presiding & Board Member – Chairman of the IWWG Task Group (TG) Leaders, Leader of the TG Industrial Waste Management*)
- BIOREM. J.:** Editorial Board of the **Bioremediation Journal** (*member*)
- ISWA:** International Solid Waste Association (*member*)
- DECHEMA:** Deutsche Gesellschaft für **Chemisches Apparatewesen**,
Chemie Technik und Biotechnologie e.V. (*member*)
- ASME:** The American Society of Mechanical Engineers (*member*)
- IRPA:** International Radiation Protection Association (*member*)
- ISEB:** International Society of Environmental Biotechnology (*member*)
- ATV:** Abwassertechnische Vereinigung (*member*)

Teaching Experience

Technical University of Crete

Undergraduates

- 2002-2019: Toxic and Hazardous Waste Treatment and Management
8th Semester (MII438) Obligatory
- 2003-2019: Soil and Groundwater Restoration Technologies
9th Semester (MII539) Optional (Obligatory in 2003, 2004)
- 2011-2019: Municipal Solid Waste (MSW): Management and System Design
7th Semester (MII338) Obligatory
- 2004-2011: Municipal Solid Waste Management and Treatment
6th Semester (MII338) Obligatory
- 2005-2011: Municipal Solid Waste Transfer Stations and Sanitary Landfills
Design
7th Semester (MII439) Obligatory
- 2003: Field Exercise II
8th Semester, Obligatory
- 2004: Field Exercise II
8th Semester, Obligatory

Postgraduates

- Management of Solid and Toxic Waste (B-202)
- Toxic and Hazardous Waste Treatment (IIΔΠ840)
- Environmental Toxicology (IIMΠ807)
- Soils and Groundwater Remediation Technologies (IIMΠ830)
- Introduction to Solid Waste – Management and Treatment (IIMΠ605)

ERASMUS (lectures in English)

Toxic and Hazardous Waste Treatment and Management, 8th Semester (MII438)
Obligatory

Solid Waste Management and Treatment, 7th Semester (MII338) Obligatory

Soil and Groundwater Restoration Technologies, 9th Semester (MII539) Optional
(Obligatory in 2003, 2004)

ERASMUS (lectures in English) at other Educational Institutes (2008-2010)

1. Technical University of Dresden, Germany (Prof. Dr. B. Bilitewski)
Teaching: October 2010
 April 2011
2. University of Padua, Italy (Prof. Dr. R. Cossu)
Teaching: March 2010
3. University of Hamburg, Germany (Prof. Dr. R. Stegmann)
Teaching: - October 2017

University Notes (in Greek)

Undergraduate

- Toxic and Hazardous Waste Management and Treatment
- Soil and Groundwater Restoration Technologies
- Municipal Solid Waste Management
- Municipal Solid Waste Transfer Stations and Sanitary Landfills Design
- Tutorial and Laboratory Exercises on Toxic and Hazardous Waste Management and Treatment
- Tutorial and Laboratory Exercises on Municipal Solid Waste Management
- Tutorial Exercises on Soil and Groundwater Restoration Technologies
- Tutorial Exercises on Municipal Solid Waste Transfer Stations and Sanitary Landfills Design

Postgraduate

- Special Issues of Environmental Engineering: Municipal Solid Waste – Management and Treatment
- Toxic and Hazardous Waste Management and Treatment
- Soil and Groundwater Restoration Technologies
- Introduction to Environmental Toxicology

Other Educational Institutes

- University of Hamburg, Germany: Undergraduates
 - 1982-1985: Treatment and restoration of radioactive fission products in nuclear reactors (Freisetzungsverhalten der Spalt- und Aktivierungsprodukte in Leichtwasserreaktoren)
 - 1983-1986: Radioactive residues and restoration (Physikalisch – chemische Probleme der Nuclearen Entsorgung)
 - 1986-1996: Special – toxic and hazardous – waste restoration (Entsorgung von Sonderabfällen)
- Technical University of Dresden, Germany: Postgraduates (In co-operation with Prof. Dr. P. Werner)
 - 1996-1998: Special issues on contaminated soils restoration (Ausgewählte Themen aus der Sanierung kontaminierter Standorte)
- Technical University of Cottbus, Germany: Postgraduates (In co-operation with Prof. Dr. P. Ay)
 - 1992-2001: Special issues on waste management and treatment (Ausgewählte Themen aus der Abfallwirtschaft und Abfallbehandlung)

Research Programs

Technical University of Crete

Scientific Director

- 2010-2020
«Immediate Intervention for the Restriction of the Existing Contamination (Free Oil Phase) Around the Area of PYRKAL»
Funding: Hellenic Petroleum S.A.
- 2007-2020
«Watertable / Underground Monitoring at the Industrial Facilities of Asprospyrgos»
Funding: Hellenic Petroleum S.A.
- 2009-2011 & 2013-2016
«Qualitative and Quantitative Characterization of Hazardous and Toxic Substances at the SEA DIAMOND Shipwreck - Environmental Impacts (Present and Future)»
Funding: Prefecture of Cyclades
- 2017 - 2020
«Investigation of Sitting Options of the New Landfill for the Prefecture of Rethimnon»
Funding: Municipality of Amari
- 2016 - 2020
«Evaluation of the Prevailing Conditions of the Amari Landfill (biogas) and Determination of Necessary Measures»
Funding: Region of Crete
- 2015 - 2016
«Research for potential contamination of the area of the Amari Landfill , Risk Assessment and Determination of Restoration Measures»
Funding: Region of Crete
- 2013 - 2016
«TIWaSiC (Advanced Training in Integrated Sustainable Waste Management for Siberian Companies and Authorities)» -TEMPUS.
Funding: European Union
- 2008-2009
«Conduction of a Study on the Exploration, Evaluation and Restoration of Uncontrollably Industrial and Hazardous Waste Contaminated Sites / Facilities in Greece »
Funding: Development Program “Environment and Sustainable Development”, Hellenic Ministry for the Environment, Physical Planning and Public Works

- 2009
 «Hydrogeological Study at the Industrial Facilities of Aspropirgos and the nearby Koumoundourou Lake»
 Funding: Hellenic Petroleum S.A.
- 2009-2010
 «Asbestos-Containing Material Removal from a Building of the Municipality of Chania at Kiprou – Thessalonikis and Dodekanisou Street»
 Funding: Municipality of Chania
- 2007-2009
 «Asbestos-Containing Materials Removal from the Chania Court and Prefecture Building »
 Funding: Prefecture of Chania
- 2007-2008
 «Final Disposal of the Biodegradable Municipal Solid Waste of the Municipality of Elefsina »
 Funding: Municipality of Elefsina
- 2008
 «Conduction of Soil Sampling and Analyses at the US Military Base of Souda»
 Funding: Private Company
- 2007-2008
 «Knowledge Transfer on Petroleum Contaminated Fields Management and Remediation»
 Funding: Environmental Protection Engineering S.A.
- 2007
 «Recording and Assessment of Sludge Treatment and Disposal Opportunities in the Region of Crete»
 Funding: Region of Crete
- 2007
 «Thermal Methods for Municipal Solid Waste Treatment»
 Funding: Hellenic Institute of Local Administration
- 2007-2008
 «RDF Analyses from the Korakia Unit»
 Funding: Intra-Municipal Solid Waste Management Association
- 2005-2006
 «Utilization of the MABE Asbestos Mine as a Hazardous Waste Disposal Site»
 Funding: LIFE – European Union (LIFE 03 ENV/GR00214)
- 2005-2006
 «Studies on Heavy Metals (Cd) Adsorption and Transfer in Soils and Application of the Electrokinetic Technique for their Restoration».
 Funding: Hellenic Ministry for the National Education and Religious Affairs, PYTHAGORAS II – Support of Universities Research Teams

- 2005-2006
 «Development of Optimum Data Base for Efficient WEEE Management»
 Funding: Asia Pro ECO - European Union
 In cooperation with India (TERI) and Germany (Technical University of Dresden)

- 2005-2006
 «Asbestos Contamination Evaluation/ Risk Assessment at the Refinery of the Industrial Facilities of Elefsina»
 Funding: Hellenic Petroleum S.A.

- 2006
 «Study on the Restoration and Utilization of the Mesomouri Area at Akrotiri, Chania»
 Funding: Intra-Municipal Solid Waste Management Association – In cooperation with the Technical University of Hamburg (Germany)

- 2003-2006
 «Leakages Prevention, Pumping and Subsurface Restoration»
 Funding: Hellenic Petroleum S.A.

- 2005
 «By-products Incorporation in the Solid Waste Residues Composting Facilities at Chania»
 Funding: Municipal Enterprise for Water and Sewage of Chania

- 2005-2006
 «Asbestos Waste Stabilization/ Solidification Technology Development for Future Restoration of the Asbestos Mines of Northern Greece»
 Funding: Research Committee of the Technical University of Crete

- 2003-2005
 «Heavy Metals Contaminated Soils Restoration with emphasis on Cadmium»
 Funding: Marie Curie – In cooperation with the Technical University of Hamburg (Germany)

- 2003-2004
 «Qualitative and Quantitative Analysis of Solid Waste in the Region of Crete»
 Funding: Cretan United Association for Waste Management

Scientific Associate

- 2005-2008:
«Re-organization and step-up of the operation of the Career Services Office of the Technical University of Crete by the General Secretariat for Research and Technology»
Funding: Operational Program «Competitiveness»,
General Secretariat for Research and Technology,
Hellenic Ministry for the National Education and Religious Affairs

- 2004-2005
«Development of current and integrated pollution control methods in municipal solid waste landfills»
Funding: ARCHIMIDIS - EPEAEK. II.
Hellenic Ministry for the National Education and Religious Affairs

Co-operation with other institutes

At the Technical University of Crete

1. University of Hamburg, Germany
 - Marie Curie Program
(Prof. Dr. W. Calmano)
 - Contaminated sites and municipal solid waste landfill restoration
(Prof. Dr. R. Stegmann)
2. Technical University of Dresden, Germany
 - WEEE (ASIA PRO ECO program)
 - ERASMUS
(Prof. Dr. B. Bilitewski)
3. TERI, The Energy and Resources Institute, India
 - E-Waste (ASIA PRO ECO PROGRAMME)
4. University of Padua, Italy
 - ERASMUS
(Prof. Dr. R. Cossu)
5. University of Modena, Italy
 - Co-operation, student exchange program and conduction of experiments on asbestos-containing materials stabilization/ solidification
(Prof. Dr. C. Leonelli)
6. URS, Germany
 - Soil and groundwater restoration
(Dr. J. Thomas)
7. BOKU, Technical University of Vienna, Austria
 - Nitrification / Denitrification and aftercare of municipal solid waste landfills
(Prof Dr. P. Lechner)
8. Nanyang Technological University, Singapore
 - Special waste management
(Prof Dr. R. Stegmann, Prof. Dr. J.-Y. Wang)

9. University Montan Leoben, Austria
 - ERASMUS
(Prof Dr. K. Lorber)
10. Rome University “La Sapienza”, Italy
 - ERASMUS
(Prof Dr. R. Pomi)

Before the Technical University of Crete

- 1985 – 2002
Head Researcher and Director
BATTELLE Institute (Germany)
Close co-operation with the BATTELLE MEMORIAL INSTITUTE, Ohio, USA, the PACIFIC NORTHWEST NATIONAL LABORATORIES (PNNL), Washington, USA and the BATTELLE OCEAN SCIENCES, Massachusetts, USA for the conduction of many national and international scientific technological programs.

Auctorial Work – List of Publications

Books

- 2006: «Hazardous Waste: Management – Treatment – Disposal»
Evangelos Gidarakos, ZYGOS Editions, Thessaloniki
In Greek
- 2005: «Soils and Groundwater Restoration Technologies from Hazardous Contaminants»
Evangelos Gidarakos, Maria Aivalioti, ZYGOS Editions,
Thessaloniki
In Greek
- 1993: «Untersuchung der Möglichkeiten zur Reduzierung der Belastung von Klärschlämmen mit organischen Schadstoffen durch Maßnahmen bei privaten Haushaltungen und im gewerblichen Bereich»
Evangelos Gidarakos, W.Schneider-Fresenius, Umweltbundesamt
1993, Berlin, Germany
- 1984: «Verhalten von Tritium im B₄C- Absorbermaterial»
Evangelos Gidarakos, GKSS 85/E/6, 1895, Germany

Patents

- 1991: **E. Gidarakos**, W. Spalthoff, D.Wittstock: "**Verfahren zur Konditionierung verbrauchter Steuselemente und Brennelement- Siedewasserreaktoren**", - Conditioning spent control rods and fuel cans from boiling water nuclear reactor for final storage
Patent: DE 4017987A1 (1991)
EC: G21C19/37; G21F9/36
- 1992: **E. Gidarakos**, U. Laser, J. Thomas: "**Method of Soil Remediation Suitable for in Situ Application**",
Patent: P 4212322, (1992) DE
- 1990: **E. Gidarakos**, A. Koehling, R.E. Schmitt: "**Method and Apparatus for Breaking a Disperse System in an Electrochemical Cell**",
Patent: P 3739580.7 (1987), US 4, 927, 511 (1990)
- 1989: **E. Gidarakos**, A. Koehling, R.E. Schmitt, B. Fischer: "**Process and Device for Conditioning Sludges which are Difficult to De-Water**",
Patent: P 3824289, P3824289.3 A1 (1989) DE
Designed Status: JP, USA, EU.
- 1986: **E. Gidarakos**, F. Schmidt: "**Verfahren zur Endlagerreifen Verfestigung von Tritium**", - Process for conditioning tritium to make it ready for final storage -
Patent: P 3525772.5, (1986) DE «Επικίνδυνα Απόβλητα : Διαχείριση – Επεξεργασία – Διάθεση»
EC: G21F9/02 (1986)

Book Chapters

1. **E. Gidarakos: “Hazardous Waste: Integrated Management of Hospital Waste”** in “Introduction in the Science of Environmental Engineering”, Publisher: Technical University of Crete, Department of Environmental Engineering (2009) (In Greek)
2. E. Dimitrakakis, **E. Gidarakos: “Extended Producer Responsibility: a key tool for international rules and regulations on E-Waste”** in “E-Waste: Implications, Regulations and Management in India and Current Global Best Practices”, Publisher: The Energy and Resources Institute (TERI) (2008) ISBN: 978-81-7993-153-0
3. **E. Gidarakos: “Inactive Asbestos Mine as a Disposal Site for Asbestos Wastes”** in “Deponietechnik 2008”, Hamburger Berichte zur Abfallwirtschaft, Band 31.
4. E. Dimitrakakis, **E. Gidarakos: “Closed-Loop CRT Glass Recycling Alternatives”** in “Trackling E-Waste Towards Efficient Management Techniques”, Publisher: The Energy and Resources Institute (TERI) (2007) ISBN: 81-7993-110-2
5. V. Friehmelt, **E. Gidarakos: “Innovative Treatment Studied on Sediment Samples”** in “Remediation and Beneficial Reuse of Contaminated Sediments”, Publisher: Battelle (2002) ISBN: 1574771299
6. J. Thomas, **E. Gidarakos: “Development of a Combined In-Situ Technique for the Treatment of Contaminated Sub-aquatic Sediments”** in “Remediation and Beneficial Reuse of Contaminated Sediments”, Publisher: Battelle (2002) ISBN: 1574771299
7. J. Thomas, **E. Gidarakos: "Development of a Combined In-Situ Technique for the Treatment of Contaminated Aquatic Sediments"** Proceedings from the First International Conference on Remediation of Contaminated Sediments, Battelle Press, Columbus, 167-172 (2001).

Scientific Journals

1. **Gidarakos E.**, Akcil A., “WEEE under the prism of urban mining, Waste Management, 102, 950-951 (2020)
2. Mymrin V., Presotto P., Alekseev K., Avanci M. A., Rolim P. H.B., Petukhov V., Taskin A., **Gidarakos E.**, Valouma A., Yu G. "Application of hazardous serpentine rocks' extraction wastes in composites with glass waste and clay-sand mix to produce environmentally clean construction materials" Construction and Building Materials, 234 (2020).
3. Savvilotidou V., **Gidarakos E.** "Pre-concentration and recovery of silver and indium from crystalline silicon and copper indium selenide photovoltaic panels" Journal of Cleaner Production, 250 (2020)
4. Kousaiti K., Hahladakis N. J., Savvilotidou V., Pivnenko K., Tyrovola K., Xekoukoulotakis N., Astrup F.T., **Gidarakos E.** "Assessment of tetrabromobisphenol-A (TBBPA) content in plastic waste recovered from WEEE", (2019)
5. Makri C., Hahladakis N.J., **Gidarakos E.** "Use and assessment of “e-plastics” as recycled aggregates in cement mortars" Journal of Hazardous Materials, 379, 120776 (2019).

6. Zeneli A., Kastanaki E., Simantiraki F., **Gidakos E.** "Monitoring the biodegradation of TPH and PAHs in refinery solid waste by biostimulation and bioaugmentation" *Journal of Environmental Chemical Engineering*, 7(3) (2019).
7. Savvilotidou V., Kritikaki A., Stratakis A., Komnitsas K., **Gidakos E.** "Energy efficient production of glass-ceramics using photovoltaic (P/V) glass and lignite fly ash" *Waste Management*, 90, 46-58 (2019).
8. Savvilotidou V., Kousaiti A., Batinic B., Vaccaric M., Kastanaki E., Karagianni K., **Gidakos E.** "Evaluation and comparison of pre-treatment techniques for recovering indium from discarded liquid crystal displays" *Waste Management*, 87, 51-61 (2019).
9. Moukazis I., Pelleri F.-M., **Gidakos E.** "Slaughterhouse by-products treatment using anaerobic digestion" *Waste Management*, 71, 652-662 (2018).
10. Pelleri F.-M., **Gidakos E.** "Chemical pretreatment of lignocellulosic agroindustrial waste for methane production" *Waste Management*, 71, 689-703 (2018).
11. Batinic B., Vaccari M., Savvilotidou V., Kousaiti A., **Gidakos E.**, Marinkovic T., Fiore S. "Applied WEEE pre-treatment methods: Opportunities to maximizing the recovery of critical metals", *Global NEST Journal*, 20(4), 706-711.
12. Valouma, A., Verganelaki A., Tetoros I., Maravelaki-Kalaitzaki P., **Gidakos E.** "Magnesium oxide production from chrysotile asbestos detoxification with oxalic acid treatment" *Journal of Hazardous Materials*, 336, 93-100 (2017).
13. Savvilotidou, V., Antoniou, A., **Gidakos, E.** "Toxicity assessment and feasible recycling process for amorphous silicon and CIS waste photovoltaic panels", *Waste Management*, 59, 394-402 (2017).
14. Pelleri F.-M., **Gidakos, E.** "Microwave pretreatment of lignocellulosic agroindustrial waste for methane production" *Journal of Environmental Chemical Engineering*, 5(1), 352-365 (2017).
15. Pelleri F.-M., **Gidakos E.** "Anaerobic digestion of solid agroindustrial waste in semi-continuous mode: Evaluation of mono-digestion and co-digestion systems" *Waste Management*, 68, 103-119 (2017).
16. Pelleri F.-M., Santori S., Pomi R., Poletti A., **Gidakos E.** "Effect of alkaline pretreatment on anaerobic digestion of olive mill solid waste" *Waste Management*, 58, 160-168 (2016).
17. Hahladakis J.N., Latsos A. **Gidakos E.** "Performance of electroremediation in real contaminated sediments using a big cell, periodic voltage and innovative surfactants" *Journal of Hazardous Materials*, 320, 376-385 (2016).
18. Pelleri F.-M., Pasparakis E., **Gidakos E.** "Consecutive anaerobic-aerobic treatment of the organic fraction of municipal solid waste and lignocellulosic materials in laboratory-scale landfill-bioreactors", *Waste Management*, 56, 181-189 (2016).
19. Pelleri F. M., **Gidakos E.** "Effect of substrate to inoculum ratio and inoculum type on the biochemical methane potential of solid agroindustrial waste" *Journal of Environmental Chemical Engineering*, 4, 3217-3229 (2016).
20. Hahladakis J.N., Vasilaki G., Smaragdaki E., **Gidakos E.** "Application of ecological risk indicators for the assessment of Greek surficial sediments contaminated by toxic metals" *Environmental Monitoring and Assessment*, 188(5), 271-, (2016).
21. Valouma A., Verganelaki A., Maravelaki-Kalaitzaki P., **Gidakos E.** "Chrysotile asbestos detoxification with a combined treatment of oxalic acid

- and silicates producing amorphous silica and biomaterial" *Journal of Hazardous Materials*, 305, 164-170 (2016).
22. Savvilotidou V., Hahladakis J.N., **Gidakos E.** "Leaching capacity of metals-metalloids and recovery of valuable materials from waste LCDs" *Waste Management*, 45, 314-324 (2015).
 23. Gidakos E. "War and Environmental Impact" *Waste Management*, 35, 1-2, (2015).
 24. Pelleri F.-M., **Gidakos E.** "Effect of dried olive pomace-derived biochar on the mobility of cadmium and nickel in soil" *Journal of Environmental Chemical Engineering*, 3(2), 1163-1176 (2015).
 25. Simantiraki F., **Gidakos E.** "Comparative assessment of compost and zeolite utilisation for the simultaneous removal of BTEX, Cd and Zn from the aqueous phase: Batch and continuous flow study" *Journal of Environmental Management* 15(159), 218-226 (2015).
 26. Pelleri F.M, **Gidakos E.** "Effect of dried olive pomace-derived biochar on the mobility of cadmium and nickel in soil" *Journal of Environmental Chemical Engineering*, 3(2), 1163-1176 (2015).
 27. Gatsios E., Hahladakis J., **Gidakos E.** "Optimization of electrocoagulation (EC) process for the purification of a real industrial wastewater from toxic metals" *Journal of environmental management*, 154, 117-127 (2015).
 28. Aivalioti, M., Cossu, R., **Gidakos, E.** "New opportunities in industrial waste management", *Waste Management*, 34, 1737-1738 (2014).
 29. Tzanakos, K., Mimilidou, A., Anastasiadou, K., Stratakis, A., **Gidakos, E.** "Solidification/stabilization of ash from medical waste incineration into geopolymers" *Waste Management*, 34, 1823-1828 (2014).
 30. Savvilotidou V, Hahladakis J., **Gidakos E.** "Determination of toxic metals in discarded liquid crystal displays (LCDs)", *Resour Conserv Recy* 92(C) 108-115 (2014).
 31. Dimitrakakis E., Hahladakis J., **Gidakos E.** «The "Sea Diamond" shipwreck. Environmental impact assessment in the water column and sediments of the wreck area», *Inter J Environ Sci Technol* 11 (5) 1421-1432 (2014).
 32. Koliass K, Hahladakis J., **Gidakos E.** "Assessment of toxic metals in waste personal computers", *Waste Manage*, 34 (8) 1480-1487 (2014).
 33. Hahladakis J., Smaragdaki E., Vasilaki G., **Gidakos E.** "Use of Sediment Quality Guidelines and pollution indicators for the assessment of heavy metal and PAH contamination in Greek surficial sea and lake sediments", *Environ Monit Assess* 185, 2843-2853(2013).
 34. Hahladakis J., Michailakis S., **Gidakos E.** "Assessment of released heavy metals from electrical and electronic equipment (EEE) existing in shipwrecks through laboratory scale simulation reactor", *Journal of Hazardous Material* 250-251, 256-264 (2013).
 35. Simantiraki F., Kollias C.G., Maratos D., Hahladakis J., **Gidakos E.**, "Qualitative determination and application of sewage sludge and municipal solid waste compost for BTEX removal from groundwater", *Journal of Environmental Chemical Engineering*, Available online 14 March (2013).
 36. Hahladakis J.N., Calmano W., **Gidakos E.** "Use and comparison of the non-ionic surfactants Poloxamer 407 and Nonidet P40 with HP- β -CD cyclodextrin, for the enhanced electroremediation of real contaminated sediments from PAHs", *Sep Purif Technol* 113, 104-113(2013).
 37. Hahladakis J. N., Dimitrakakis E., **Gidakos E.** "The "Sea Diamond" shipwreck. Environmental impact assessment in the water column and

- sediments of the wreck area”, *International Journal of Environmental Science and Technology*, (2013).
38. Maragkos K., Hahladakis J. N., **Gidakos E.** “Qualitative and quantitative determination of heavy metals in waste cellular phones”, *Waste management* (2013).
 39. Hahladakis J. N., Smponias A., Lekkas N., **Gidakos E.** “Sequential application of chelating agents and innovative non-ionic surfactants for the enhanced electroremediation of sediments from heavy metals and PAHs”, (2013).
 40. V.Saltas, F.Vallianatos, **E.Gidakos** "Charge transport in diatomaceous earth studied by broadband dielectric spectroscopy", *Applied Clay Science*, 80-81, 226-235.
 41. Pelleri F., Giannis A., Kalderis D., Anastasiadou K., Rainer S., Wang J.-Y., **Gidakos E.:** "Adsorption of Cu(II) ions from aqueous solutions using biochars prepared from agricultural by-products", *Journal of Environmental Management* 96, pp. 35-42 (2012).
 42. **Gidakos E.**, Basu S., Rajeshwari K.V., Dimitrakakis E., Johri R.: “E-Waste recycling environmental contamination: Mandoni India”, *Waste and Resource Management*, Volume 165 Issue WR1, pp. 45-52 (2012).
 43. Aivalioti M., Pothoulaki D., Papoulias P., **Gidakos E.** “Removal of BTEX, MTBE and TAME from aqueous solutions by adsorption onto raw and thermally treated lignite”, *Journal of Hazardous Materials* (2012).
 44. Aivalioti M., Papoulias P., Kousaiti A., **Gidakos E.** “Adsorption of BTEX, MTBE and TAME on natural and modified diatomite”, *Journal of Hazardous Materials* (2012).
 45. Anastasiadou K., Christopoulos K., Mousios E., **Gidakos E.** "Solidification/Stabilization of fly and bottom ash from medical waste incineration facility", (2011)
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Supervisions

- **Phd Thesis**

- 2019** - «Development of recycling techniques in 1st and 2nd generation waste photovoltaic panels» - **VASILIKI SAVVILOTIDOU**
- «Integrated development of asbestos containing materials detoxification and management technologies» - **AIKATERINI VALOUMA**
- 2017:** - «Integrated treatment and utilization of solid organic waste in the Mediterranean area using anaerobic digestion» – Francesca – Maria **PELLERA**
- 2015:** - «Groundwater remediation from organic and inorganic contaminants using the permeable reactive barriers technology» – Fotini **SIMANTIRAKI**
- 2014:** - «Simultaneous removal of heavy metals and polyaromatic hydrocarbons from contaminated sediments using the electrokinetics technique» – Ioannis **HAHLADAKIS**
- 2011:** - «BTEX and MTBE contaminated water restoration using natural and modified diatomite – Comparison to and combination with other natural adsorbents» - Maria **AIVALIOTI**
- «Hydrothermal treatment of asbestos containing materials under sub/ hyper critical conditions» - Kaliopi **ANASTASIADOU**
- 2008:** - «Heavy metals removal from contaminated soils (with emphasis to cadmium) using the electrokinetic and soil washing techniques» – Apostolos **GIANNIS**

- **M.Sc. & Diploma Theses**

46 Master and 90 Diploma theses in total

Establishment & Organization of International Scientific Conference

Since 2008 the organization of a unique in its kind International Scientific Conference on industrial and hazardous waste management has been established, under the title ***INDUSTRIAL AND HAZARDOUS WASTE MANAGEMENT – CRETE***, at Chania, the town of the Technical University of Crete.

This organization is carried out in co-operation with important international institutions and organizations, every two years, aiming at the gathering of recognized scientists and special experts from all over the world for exchanging experiences, knowledge and recent scientific and technological achievements on the extremely significant issue of industrial and hazardous waste management.

The first Conference was held with great success in October 2008 with the participation of more than 350 scientists from 55 different countries, focusing on important national and international issues on industrial and hazardous waste management.

