

EVAN DIAMADOPOULOS

Professor

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EDUCATION

PhD, Department of Chemical Engineering, McMaster University, Canada (1985). Title of doctoral thesis: "Interaction between natural and synthetic organics in the coagulation process".

M. Eng., Department of Chemical Engineering, McMaster University, Canada (1982). Title of Master's thesis: "Aluminum hydrolysis effects on phosphorus removal from wastewater".

Diploma in Chemical Engineering, Department of Chemical Engineering, Aristotle University of Thessaloniki (1978).

PROFESSIONAL EXPERIENCE

June 2003 - Today

Professor, Department of Environmental Engineering, Technical University of Crete.

September 2011-December 2011

Visiting Professor, Department of Environmental Science and Technology, Cyprus University of Technology

December 1999 – June 2003

Professor, Department of Production Engineering and Management, Technical University of Crete.

April 1995 - December 1999

Associate Professor, Department of Production Engineering and Management, Technical University of Crete.

October 1995 - January 1996

Visiting Associate Professor, Department of Chemical Engineering, McMaster University, Canada.

June - Aug 1994

Visiting scientist at the Lyonnaise des Eaux research centre CIRSEE in Paris, France.

Sept 1990 - March 1995

Assistant Professor, Department of Production Engineering and Management, Technical University of Crete.

1987 - 1990

Member of the Research Staff of the Chemical Process Engineering Research Institute, Thessaloniki, Greece.

Jan 1979 - May 1984

Teaching Assistant at McMaster University, Department of Chemical Engineering.

AREAS OF ACADEMIC INTEREST

Environmental Technology with emphasis on

- Water quality
- Water and wastewater treatment
- Solid waste management

Undergraduate courses taught

Chemical Methods for Water and Wastewater Treatment

Physical Methods for Water and Wastewater Treatment

Principles of Environmental Science and Technology

Engineering Economics

Mass and Energy Balances

Graduate courses taught

Wastewater treatment (for non-environmental engineers)

Regression Analysis and Experimental Design

Analysis and Design of Biological Environmental Processes

Water Chemistry and Water Quality

OTHER PROFESSIONAL ACTIVITIES

- A. Reviewer of research project proposals for DG XII.
- B. Reviewer of research project proposals for the Greek General Secretariat for Research and Technology and Ministry of Education.
- C. Reviewer for research proposals for the Research Authorities in Israel and Turkey
- D. Reviewer of articles submitted to over 25 international scientific journals including
 - Environmental Science and Technology
 - Water Research
 - Water Science and Technology
 - Bioresource Technology
 - Chemosphere
 - Chemical Engineering Journal
 - Journal of Environmental Engineering
 - Journal of Hazardous Materials
 - Journal of Chemical Technology and Biotechnology
 - Journal of Environmental Management
 - Journal of Air and Waste Management Association
 - Environmental Technology
 - Desalination
- E. Organizer and co-organizer of the following international conferences:
 - 2ND International Symposium on Wastewater Reclamation and Reuse (1995)

- Protection and Restoration of the Environment III (1996)

I have participated in the scientific committee of various scientific conferences.

- E. Coordinator for various activities and projects related to environmental education in the secondary education.
- F. Member of the following associations:
- Technical Chamber of Greece
 - Greek Association of Chemical Engineers
 - Water Environment Federation (Formerly WPCF)
 - International Solid Waste Association
 - International Water Association
- G. Instructor for continuing education courses on Wastewater Treatment for various organisations including the Hellenic Centre for Productivity and the Technical Chamber of Greece.
- H. Consulting engineer in projects related to water quality, and management and treatment of wastes.

RESEARCH PROJECTS

1. Study of the production of activated carbon from Greek lignite and its use to remove pollutants from water.
Source of Funding: General Secretariat of Research and Technology (1988).
2. Treatment of leachate from a domestic solid waste disposal site.
Source of Funding: General Secretariat of Research and Technology (1990).
3. Optimisation of recycling.
Source of Funding: Regional Municipality of Chania and Technical University of Crete (1991).
4. Coagulation of biological colloids by means of pre-hydrolysed aluminum and iron coagulants.
Source of Funding: General Secretariat of Research and Technology (1993).
5. Box-Jenkins stochastic modelling of air pollution time series.
Source of Funding: Technical University of Crete (1993).
6. Analytical determination of trihalomethanes in drinking water.
Source of Funding: Water and Sewerage Municipal Enterprise of Chania (1994).
7. Production of toxic organic substances during the uncontrolled burning of municipal solid wastes (In co-operation with the Institute of Ecological Chemistry, GSF Munchen).
Source of Funding: General Secretariat of Research and Technology (Scientific co-operation with Germany) (1994).
8. Organohalides in drinking water.
Source of Funding: General Secretariat of Research and Technology (1995).
9. Reclamation and reuse of wastewater from the Chania Wastewater Treatment Plant.

- Source of Funding: Water and Sewerage Municipal Enterprise of Chania (1995).
10. Analytical determination of trihalomethanes in drinking water of the Karditsa County.
Source of Funding: Association of Municipalities of the Karditsa County (1996, 1997).
 11. Occupational health and safety study of the Herakleion Sewage Treatment Plant.
Source of funding: Water and Sewerage Municipal Enterprise of Herakleion (1996).
 12. Distance Learning: Alternative Energy Sources and Environmental Management (with TEI of Chania).
Source of Funding: Ministry of Education (1998).
 13. Development of active materials from waste products.
Source of Funding: General Secretariat of Research and Technology (Scientific co-operation with Bulgaria, 1998).
 14. Interregional co-operation for the integrated management of wetlands-NETWET.
Source of Funding: European Union (Programme INTERREG, 1998).
 15. New products from glassy combustion residues - PROGRES.
Source of Funding: European Union (Programme BRITE-EURAM, 1998).
 16. Risk management of industrial accidents.
Source of Funding: General Secretariat of Research and Technology (1998).
 17. The use of constructed wetlands for wastewater treatment (In co-operation with the Institute of Ecological Chemistry, GSF Munchen).
Source of Funding: General Secretariat of Research and Technology (1998).
 18. Innovative management of olive oil mill wastewater through technological upgrading of olive kernel treatment factories.
Source of Funding: General Secretariat of Research and Technology (1999).
 19. Production of high added-value materials from clean coal gasification by-products (HIVALUE).
Source of Funding: European Union (ECSC, 2002).
 20. Innovative biological wastewater treatment.
Source of Funding: General Secretariat of Research and Technology (2002).
 21. Training on efficient water use technologies for environment educators using virtual application sites (ED-WAVE).
Source of Funding: European Union (Asia-Link Curriculum Development, 2003).
 22. Networking perspectives of transnational co-operation and participatory planning for spatial and sustainable development at the sector of integrated water management (NETWET 2).
Source of Funding: European Union (Programme INTERREG, 2003).
 23. ERIS – Intelligent Environmental Systems: Application in olive oil mill wastewater treatment.
Source of Funding: General Secretariat of Research and Technology (2003).
 24. Immersed Membrane Bioreactor Technology for Municipal Wastewater Treatment in Greece (IMBioTech)
Source of Funding: General Secretariat of Research and Technology (2003).

25. Development of analytical protocols for the determination of a wide range of organic micro-pollutants in water and wastewater.
Source of funding: Ministry of Education, Heraclitus programme (2003).
26. Production of high added value products for environmental applications from agricultural by-products in India: Activated carbon production from bagasse and rice husks (HARMONICA).
Source of Funding: European Union (Programme EU-India Cross Cultural Programme, 2003).
27. Ballast water disinfection through in situ electrolytic generation of chlorine (Ballast Water)
Source of Funding: General Secretariat of Research and Technology (2005).
28. New forms of territorial governance for the promotion of landscape policies in the field of water resources management at water territories (NETWET 3).
Source of Funding: European Union (Programme INTERREG IIIB ARCHIMED, 2006).
29. Sustainable management of environmental issues related to water stress in Mediterranean islands (MEDIWAT)
Source of Funding: European Union (Programme MED, 2010).
30. Removal of Endocrine Disrupting Substances (EDS) from Water Using Membrane Separation Methods (REMESEP)
Source of Funding: General Secretariat of Research and Technology (Scientific co-operation with Turkey, 2011).
31. Removal of Endocrine Disrupting Substances from wastewater and sludge (Ministry of Education – Heraclitus Programme, 2011).
32. Water quality control in the Amari reservoir with emphasis on manganese, iron and taste compound levels (Organization for the Development of Western Crete, 2011).
33. Development of advanced oxidation processes using nanomaterials and solar light for the removal of toxic organic compounds, endocrine disrupting compounds and cystotoxins from natural water and treated wastewater. (Ministry of Education – Thalys Programme, 2012).
34. TRITON EC – Development of a new system for the electrochemical treatment of black and grey water in ships in accordance to MEPC 227(64) (Environmental Protection Engineering S.A., 2014).

TECHNICAL STUDIES

1. Environmental impact assessment and improvement of the operation of the Thessaloniki Sewage Treatment Plant.
Source of Funding: Technical Chamber of Greece - Branch of Central Macedonia (1989).
2. Study of environmental control measures for the disposal of industrial solid wastes in the greater region of Thessaloniki.
Source of Funding: Organisation for Master Plan and Environmental Protection of Thessaloniki (1989).
3. Integrated solid waste management at the Chania County.

- Source of Funding: Prefecture of Chania and Technical Chamber of Greece/Section of Western Crete (1997).
4. Environmental problems originating from the coal power plants in the greater area of Kozani-Ptolemaida.
Source of Funding: Prefecture of Kozani (1997).
 5. Environmental Impact Assessment of the Chania-Kolybari Area Sewage Treatment Plant.
Source of Funding: Organisation for the Development of Western Crete (1998)
 6. Study of the Water Treatment Plant of the Amari Reservoir.
Source of Funding: Water and Sewerage Municipal Enterprise of Rethymno (1998).
 7. Tertiary treatment of the Chania-Kolybari Treatment Plant effluent by means of a Constructed Wetland.
Source of Funding: Organisation for the Development of Western Crete (1998).
 8. Master plan for the Management of Wastewater (Collection, Treatment, Disposal) of Crete.
Source of Funding: Regional Government of Crete (1999).
 9. Comparative evaluation of three sites in the Chania county for the siting of Municipal Solid Waste Treatment and Disposal Facilities.
Source of Funding: Prefecture of Chania and Technical Chamber of Greece/Section of Western Crete (1999).
 1. Environmental Impact Study of the siting of Municipal Solid Waste Treatment and Disposal Facilities at Kouroupitos site.
Source of Funding: Prefecture of Chania (2000).
 11. Environmental Impact Study from the siting of Fuel Storage Facilities in the area of Kokkino Horio, Chania, Crete.
Source of Funding: Municipality of Vamos (2002).

ENVIRONMENTAL EDUCATION PROJECTS

1. "Theory and practice of Environmental Education" Short course for secondary education teachers of Crete.
Source of Funding: Ministry of the Environment and National Youth Foundation (1996)
2. "Environmental Education through the natural and technological sciences: Water as a natural resource" Short course for secondary education teachers of Greece.
Source of Funding: Ministry of Education (1997 and 1998)
3. SCHOOLNET-A computer network for Environmental Education in Greece.
Source of Funding: Ministry of Education (1997)

PUBLICATIONS IN REFERREED INTERNATIONAL JOURNALS

1. Diamadopoulos E. and Benedek A., "The precipitation of phosphorus from wastewater through pH variation in the absence and presence of coagulants" *Water Research* 18, 9, 1175 (1984).
2. Diamadopoulos E. and Benedek A., "Aluminum hydrolysis effects on phosphorus removal from wastewaters" *J. Wat. Poll. Contr. Feder.* 56, 1165 (1984).

3. Diamadopoulos E. and Woods D. R., "The effect of filter pore size on the evaluation of aluminum coagulants to remove fulvic acid from water" *Water Research* 18, 11 1455 (1984).
4. Diamadopoulos E. and Woods D. R., "Fulvic acid removal with aluminum and a non-ionic polymer" *Water Poll. Res. Jour. Can.* 20, 1, 54 (1985).
5. Diamadopoulos E. and Woods D. R., "An investigation of the factors affecting the removal of fulvic acid from water with aluminum and polymers" *Water Poll. Res. Jour. Can.* 22, 337 (1987).
6. Diamadopoulos E. and Woods D. R., "Design criteria for the removal of organic matter from water" *AQUA*, 4, (1988).
7. Diamadopoulos E., Zoubourtikoudis I. and Kyparissidis C. "Aggregation phenomena in the suspension polymerization of PVC" *Colloid Polym. Sci.*, 268, 306 (1990).
8. Samaras P., Diamadopoulos E. and Sakellaropoulos G. P. "The effect of demineralization on lignite activation" *CARBON*, 29, 1181, (1991).
9. Diamadopoulos E., Samaras P. and Sakellaropoulos G. P. "The effect of activated carbon properties on the adsorption of toxic substances" *Water Sci. Technol.*, 25, 153 (1992).
10. Diamadopoulos E., Ioannidis S. and Sakellaropoulos G. P. "As (V) removal from aqueous solutions by fly ash" *Water Research* 27, 1773 (1993).
11. Samaras P., Diamadopoulos E. and Sakellaropoulos G. P. "Acid treatment of lignite and its effect on activation" *CARBON* 32, 771 (1994).
12. Diamadopoulos E. "Characterization and treatment of recirculation-stabilized leachate" *Water Research*, 28, 2439 (1994).
13. Diamadopoulos E., Koutsantonakis Y. and V. Zaglara "Optimal design of municipal solid waste recycling systems" *Resources, Conservation and Recycling*, 14, 21 (1994).
14. Samaras P., Diamadopoulos E. and Sakellaropoulos G. P. "Relationship between the activated carbon surface area and adsorption model coefficients for removal of phenol from water" *Water Qual. Res. Jour. Can.* , 30, 325 (1995).
15. Angelakis A. and Diamadopoulos E. "Water Resources Management in Greece: Current Status and Prospective Outlook" *Water Sci. Technol.*, 32, No. 9-10, 267 (1996).
16. Samaras P., Diamadopoulos E. and Sakellaropoulos G.P. "The effect of mineral matter and pyrolysis conditions on the carbon dioxide gasification of Greek lignite" *Fuel*, 1108 (1996).
17. Vlachos C. and Diamadopoulos E. "Coagulation of secondary effluents by means of pre-hydrolyzed coagulants" *Water Sci. Technol.*, 33, No. 10-11, 193 (1996).
18. Koukouraki E., Berkhoudt R. A. and Diamadopoulos E. "Determination of Volatile Chlorination By-products in Drinking Water in Greece" *Fresenius Environ. Bulletin*, 6, 160 (1997).
19. Diamadopoulos E., Samaras P., Dabou X. and Sakellaropoulos G. P. "Combined treatment of leachate and sewage in a Sequencing Batch Reactor", *Water Sci. Technol.*, 36, 2-3, 61 (1997).
20. Katsamaki A., Willems S. and Diamadopoulos E. "Time Series Analysis of Municipal Solid Waste Generation Rates" *Jour. Environ. Engineering* 124, 2, 178 (1998).
21. Drakonaki S., Diamadopoulos E., Vamvouka D. and Lahaniatis M. "Leaching behaviour of lignite fly ash" *Journal of Environmental Science and Health Part A - Toxic/Hazardous Substances and Environmental Engineering* A33, 2, 237 (1998).
22. Martens D., Balta-Brouma K., Michalke B., Henkelmann B., Oxynos K., Schramm K.-W., Brotsack R., Diamadopoulos E. and Kettrup A. "Environmental impact of

- uncontrolled solid waste combustion in the Kouroupitos ravine, Crete" *Chemosphere* 36, 14, 362 (1998).
23. Diamadopoulos E., Sakellariadis D. and Koukouraki E. "The effect of humic acid on the transport of volatile chlorinated hydrocarbons in soil" *Water Research* 32, 11, 3325 (1998).
 24. Navarro-Esbri J., Diamadopoulos E. and Ginestar D. "Time series analysis and forecasting techniques for municipal solid waste management" *Resources, Conservation and Recycling*, 35, 3, 201 (2002).
 25. Koukouraki E. and Diamadopoulos E. "THM formation during chlorination of treated municipal wastewater" *Water Science and Technology*, 2, 3, 235 (2002).
 26. Koukouraki E. and Diamadopoulos E. "Modelling the formation of THM during chlorination of treated municipal wastewater" *Water Science and Technology: Water Supply*, 3, 4, 277-284 (2003).
 27. Tyrovolas K. and Diamadopoulos E. "Bromate formation during ozonation of groundwater in coastal areas in Greece", *Desalination*, 176, 201-209 (2005).
 28. Gizgis N., Georgiou M. and Diamadopoulos E. "Sequential anaerobic/aerobic biological treatment of olive mill wastewater and municipal wastewater" *J. Chem. Technol. Biotechnol.*, 81, 1563-1569 (2006).
 29. Paraskeva P. and Diamadopoulos E. "Technologies for olive mill wastewater (OMW) treatment: A review" *J. Chem. Technol. Biotechnol.*, 81, 1475-1485 (2006).
 30. Diamadopoulos E., Megalou K., Georgiou M. and Gizgis N. "Coagulation and Precipitation as Post-Treatment of Anaerobically Treated Primary Municipal Wastewater" *Water Environment Research* 79, 131-139 (2007).
 31. Antoniou C., Koukouraki E. and Diamadopoulos E. "Determination of Chlorinated Volatile Organic Compounds in Water and Municipal Wastewater Using Headspace Solid Phase Microextraction - Gas Chromatography" *Journal of Chromatography A* 1132, 310-314 (2006)
 32. Antoniou C., Koukouraki E. and Diamadopoulos E. "Analysis Of Volatile And Semivolatile Organic Compounds In Municipal Wastewater Using Headspace Solid-Phase Microextraction And Gas Chromatography" *Water Environment Research* 79, 921-930 (2007)
 33. Tassoula E., Diamadopoulos E. and Vlachos C. "Tertiary Physico-chemical Treatment of Secondary Effluent from the Chania Municipal Wastewater Treatment Plant" *Glogal NEST Journal* 9, 166-173 (2007)
 34. Gyparakis S. and Diamadopoulos E. "Formation and Reverse Osmosis Removal of Bromate Ions during Ozonation of Groundwater in Coastal Areas" *Separation Science and Technology* 42, 1465-1476 (2007)
 35. Giannis A., Kalaitzakis M. and Diamadopoulos E. "Electrochemical treatment of olive mill wastewater" *Journal of Chemical Technology and Biotechnology* 82, 663-671 (2007)
 36. Paraskeva P., Diamadopoulos E., Balakrishnan M., Batra V. S., Kraslawski A., Avramenko Y., Gutierrez D., Anson O., Ratnayake N., Gunawardana B. and Mungcharoen T. "Ed-Wave: An educational software for training on wastewater technologies using virtual application sites" *Intern. Jour. Engineer. Education* 23 (6), 1172-1181 (2007).
 37. Dialynas E. and Diamadopoulos E. "Integration of immersed membrane ultrafiltration with coagulation and activated carbon adsorption for advanced treatment of municipal wastewater" *Desalination* 230 (1-3) 113-127 (2008).

38. Deligiorgis A., Xekoukoulotakis N. P., Diamadopoulos E. and Mantzavinos D. "Electrochemical oxidation of table olive-processing wastewater over boron-doped diamond electrodes: treatment optimization by factorial design" *Water Research* 42 (4-5) 1229-1237 (2008).
39. Kalderis D., Tsolaki E., Antoniou C. and E. Diamadopoulos "Characterization and treatment of wastewater produced during the hydro-metallurgical extraction of Germanium from fly ash" *Desalination* 230 (1-3), 162-174 (2008).
40. Paraskeva P., Kalderis D. and Diamadopoulos E. "A review of the production of activated carbon from agricultural by-products" *Journal of Chemical Technology and Biotechnology* 83, 581-592 (2008)
41. Civelekoglu, N.O. Yigit, E. Diamadopoulos, and M. Kitis "Prediction of Bromate Formation Using Multi-Linear Regression and Artificial Neural Networks" *Ozone Science and Engineering* 29, 353-362 (2007)
42. Kalderis D., Bethanis S., Paraskeva P. and Diamadopoulos E. "Production of activated carbon from bagasse and rice husk by a single-stage chemical activation method at low retention times" *Bioresource Technology* 99, 6809-6816 (2008)
43. Kalderis D., Koutoulakis D., Paraskeva P., Diamadopoulos E., Otal E., Olivares del Valle J. and Fernández-Pereira C. "Adsorption of polluting substances on activated carbons prepared from rice husk and sugarcane bagasse" *Chem. Eng. Journal* 144 (1), 42-50 (2008).
44. Mavros M., Xekoukoulotakis N. P., Mantzavinos D. and Diamadopoulos E. "Complete treatment of olive pomace leachate by coagulation, activated carbon adsorption and electrochemical oxidation" *Water Research* 42 (12), 2883-2888 (2008).
45. Frontistis Z., Xekoukoulotakis N.P., Diamadopoulos E. and Mantzavinos D. "Ozonation of landfill leachates: Treatment optimization by factorial design" *J. Advanced Oxidation Technologies* 11 (2), 370-376 (2008).
46. Katsoni A., Frontistis Z., Xekoukoulotakis N. P., Diamadopoulos E., Mantzavinos D. "Wet air oxidation of table olive processing wastewater: Determination of key operating parameters by factorial design" *Water Research* 42, 3591-3600 (2008).
47. Dialynas M., Mantzavinos D. and Diamadopoulos E. "Advanced treatment of the reverse osmosis concentrate produced during reclamation of municipal wastewater" *Water Research* 42, 4603-4608 (2008).
48. Anastasakis K. Kalderis D. and Diamadopoulos E. "Flocculation behavior of mallow and okra mucilage in treating wastewater" *Desalination* 249, 786-791 (2009).
49. Antoniou C., Koukouraki E. and Diamadopoulos E. "Analysis of selected pharmaceutical compounds and endocrine disruptors in municipal wastewater using Solid-Phase Microextraction and Gas Chromatography" *Water Environment Research* 81 (7), 664-669 (2009).
50. Dialynas E. and Diamadopoulos E. "Integration of membrane bioreactor coupled with reverse osmosis for advanced treatment of municipal wastewater" *Desalination* 238, 302-311 (2009).
51. Chatzisyneon E., Xekoukoulotakis N. P., Diamadopoulos E., Katsaounis A., Mantzavinos D. "Boron-Doped Diamond Anodic Treatment of Olive Mill Wastewaters: Statistical Analysis, Kinetic Modeling and Biodegradability" *Water Research* 34, 3999-4009 (2009).
52. Tsimas E. S., Tyrovola K., Xekoukoulotakis N. P., Nikolaidis N. P., Diamadopoulos E., Mantzavinos D. "Simultaneous photocatalytic oxidation of As(III) and humic acid in aqueous TiO₂ suspensions" *Journal of Hazardous Materials* 169, 376-385 (2009).

53. Chatzisymeon E., Diamadopoulos E., Mantzavinos D. "Effect of key operating parameters on the non-catalytic wet oxidation of olive mill wastewaters" *Water Science and Technology* 59, 12, 2509-2518 (2009).
54. Civelekoglu G., Yigit N. O., Diamadopoulos E. and Kitis M. "Modelling of COD removal in a biological wastewater treatment plant using adaptive neuro-fuzzy inference system and artificial neural network" *Water Science and Technology* 60, 6, 1475-1487 (2009).
55. Raposo F., de la Rubia M.A., Borja R, Alaiz M., Beltrán J., Cavinato C., Clinckspoor M., Demirer G., Diamadopoulos E., Helmreich B, Jenicek P., Martí N., Méndez R., Noguerol J., Pereira F., Picard S., Torrijos M. "An interlaboratory study as useful tool for proficiency testing of chemical oxygen demand measurements using solid substrates and liquid samples with high suspended solid content" *Talanta* 80, 1, 329-337 (2009).
56. Papastavrou C., Mantzavinos D., Diamadopoulos E. "A comparative treatment of stabilized landfill leachate: Coagulation/Activated carbon adsorption vs. electrochemical treatment. *Environmental Technology* 30, 14, 1547-1553 (2009).
57. Kalderis D., Diamadopoulos E. "Valorization of Solid Waste Residues from Olive Oil Mills: A Review" *TAET - Terrestrial and Aquatic Toxicology* 4 (Special Issue 1): 7-20 (2010).
58. Diamadopoulos E., Barndok H., Xekoukoulotakis N., Mantzavinos D. "Treatment of ink effluents from flexographic printing by lime precipitation and BDD electrochemical oxidation". *Water Science and Technology* 60 (10), 2477-2483 (2009).
59. Tsolaki E., Diamadopoulos E. "Technologies for ballast water treatment: a review" *J. Chem. Technol. Biotechnol.* 85, 19-32 (2010).
60. Tsolaki E., Pitta P., Diamadopoulos E. "Electrochemical disinfection of simulated ballast water using *Artemia salina* as indicator" *Chemical Engineering Journal* 156, 305-312 (2010).
61. Grafias P., Xekoukoulotakis N.P., Mantzavinos D., Diamadopoulos E. "Pilot Treatment of Olive Pomace Leachate by Vertical-Flow Constructed Wetland and Electrochemical Oxidation: An Efficient Hybrid Process" *Water Research* 44, 2773-2780 (2010).
62. Klontza E. E., Koukouraki E. and Diamadopoulos E. "Determination of Nonylphenol ethoxylates in wastewater samples with SPME/GC-MS" *Desalination and Water Treatment* 23, 80-88 (2010).
63. Velegraki T., Balayiannis G., Diamadopoulos E., Katsaounis A. and Mantzavinos D. "Electrochemical oxidation of benzoic acid in water over boron-doped diamond electrodes: Statistical analysis of key operating parameters, kinetic modeling, reaction by-products and ecotoxicity" *Chemical Engineering Journal* 160, 538-548 (2010).
64. Bouki C., Dvorakova M. and Diamadopoulos E. "Adsorption of nonylphenol on activated sludge biomass under aseptic conditions" *CLEAN-Soil, Air, Water* 38, 516-520 (2010).
65. Raposo F., Fernández-Cegrí V., De la Rubia M. A., Borja R., Beltrán J., Cavinato C., Clinckspoor M., Demirer G., Diamadopoulos E., Frigon J. C., Koubova J., Launay M., Méndez R., Menin G., Noguerol J., Uellehdahl H., West S. "Quality improvement in determination of chemical oxygen demand in samples considered difficult to analyze, through participation in proficiency-testing schemes" *TrAC Trends in Analytical Chemistry*, 29 826-836 (2011)
66. Klontza E. E., Koukouraki E. and Diamadopoulos E. "An investigation of parameters affecting solid-phase microextraction (SPME) for the quantitative determination of nonylphenol polyethoxylate surfactants" *Fresenius Environmental Bulletin* 20, 206-212 (2010).

67. Anglada A., Urriaga A., Ortiz I., Mantzavinos D. and Diamadopoulos E. "Boron-doped diamond anodic treatment of landfill leachate: Evaluation of operating variables and formation of oxidation by-products" *Water Research*, 45, 828-838 (2011).
68. Anglada A., Urriaga A., Ortiz I., Mantzavinos D. and Diamadopoulos E. "Treatment of municipal landfill leachate by catalytic wet air oxidation: Assessment of the role of operating parameters by factorial design" *Waste Management*, 31, 1833-1840 (2011).
69. Dialynas E. and Diamadopoulos E. "The effect of biomass adsorption on the removal of selected pharmaceutical compounds in an immersed membrane bioreactor system" *J. Chem. Technol. Biotechnol.* 87, 232-237 (2012).
70. Agrafioti E. and Diamadopoulos E. "A strategic plan for reuse of treated municipal wastewater for crop irrigation on the island of Crete" *Agric. Water Managem.* 105, 57-64 (2012).
71. Urriaga A., Ortiz I., Anglada A., Mantzavinos D. and Diamadopoulos E. "Kinetic modelling of the electrochemical removal of ammonium and COD from landfill leachates" *J. Appl. Electrochem.* 42, 779-786 (2012).
72. Venieri D., Markogiannaki E., Chatzisyneon E., Diamadopoulos E. and Mantzavinos D. "Inactivation of *Bacillus anthracis* by photocatalytic, photolytic and sonochemical treatment" *Photochemical & Photobiological Sciences* 12, 645-652 (2013).
73. Loupasaki E. and Diamadopoulos E. "Attached growth systems for wastewater treatment in small and rural communities: A review" *J. Chem. Technol. Biotechnol.* 88, 190-204 (2013).
74. Loupasaki E. and Diamadopoulos E. "A Comparative evaluation of three attached growth systems and constructed wetland for in situ treatment of raw municipal wastewater" *Environ. Technol.* 34, 1503-1512 (2013).
75. Bouki C., Venieri D. and Diamadopoulos E. "Detection and fate of antibiotic resistant bacteria in wastewater treatment plants: A review" *Ecotoxicology and Environmental Safety* 91, 1-9 (2013).
76. Agrafioti A., Bouras G., Kalderis D. and Diamadopoulos E. "Biochar production by sewage sludge pyrolysis" *J. Anal. Appl. Pyrolysis* 101, 72-78 (2013).
77. Lacasa E., Tsolaki E., Sbokou Z., Rodrigo M. A., Mantzavinos D., and Diamadopoulos E. "Electrochemical disinfection of simulated ballast water on conductive diamond electrodes" *Chem. Eng. Journal* 223, 516-523 (2013)
78. Tsigaridas K., Sawidis T., Monokrousos N., Sivropoulou A. and Diamadopoulos E. "Lichens as indicators of heavy metal pollution around a coal-fired power station in W. Macedonia, Greece" Accepted for publication in *Environmental Engineering and Management Journal* (2013)
79. Solak S., Vakondios N., Tzatzimaki I., Diamadopoulos E., Arda M., Kabay N., Yüksel M. "A Comparative Study for Removal of Endocrine Disrupting Compounds (EDCs) from treated wastewater using Highly Crosslinked Polymeric Adsorbents and Activated Carbon" *J. Chem. Technol. Biotechnol.* 89, 819-824 (2013)
80. Ioannou L.A., Michael C., Vakondios N., Drosou K., Xekoukoulotakis N. P., Diamadopoulos E., Fatta-Kassinou D. "Winery wastewater purification by reverse osmosis and oxidation of the concentrate by solar photo-Fenton" *Separation and Purification Technology* 118, 659-669 (2013)
81. Agrafioti A., Kalderis D. and Diamadopoulos E. "Arsenic and chromium removal from water using biochars derived from rice husk, organic solid wastes and sewage sludge" *J. Environ. Manag.* 133, 309-314 (2014).
82. Katsoni A., Mantzavinos D. and Diamadopoulos E. "Sequential treatment of diluted olive pomace leachate by digestion in a pilot scale UASB reactor and BDD

- electrochemical oxidation” *Water Research* 57, 76-86 (2014)
83. Katsoni A., Mantzavinos D. and Diamadopoulos E. “Coupling digestion in a pilot scale UASB reactor and electrochemical oxidation over BDD anode to treat diluted cheese whey” Accepted for publication in *Environmental Science and Pollution Research*, DOI 10.1007/s11356-014-2960-2 (2014).
 84. Vakondios N., Koukouraki E. and Diamadopoulos E. “Effluent organic matter (EfOM) characterization by simultaneous measurement of proteins and humic matter” *Water Research* 63, 62-70 (2014).
 85. Viola F., Sapiano M., Schembri M., Brincat C., Lopez A., Toscano A., Diamadopoulos E., Charalambous B., Molle B., Zoumadakis M., Torrens A., Gallinas Vich M., Noto M. T. “The state of water resources in major Mediterranean Islands” Accepted for publication in *Water Resources* (2014)
 86. Agrafioti A., Kalderis D. and Diamadopoulos E. “Ca and Fe modified biochars as adsorbents of arsenic and chromium in aqueous solutions” Accepted for publication in *Journal Environ. Manag.* (2014).