

# Ioannis Manariotis

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## Curriculum Vitae

### EDUCATION:

2000 Doctorate in Civil Engineering, Civil Engineering Department, University of Patras, Patras, Greece.

1990 Diploma, Civil Engineering Department, University of Patras, Patras, Greece.

### RESEARCH INTERESTS:

- RESEARCH INTERESTS:

### ACADEMIC EXPERIENCE:

1991-92 Research Assistant, Civil Engineering Department, University of Patras, Patras, Greece

1992-95 & 1996-98 Research and Teaching Assistant, Civil Engineering Department, University of Patras, Patras, Greece

1998-2000 & 2005-2009 Research Associate, Civil Engineering Department, University of Patras, Patras, Greece

2001-2002 & 2004-2014 Associate Educational Staff in Environmental Design of Cities and Buildings Post Graduate Program, Hellenic Open University, Patras, Greece

2001-2008 Adjunct Lecturer, Civil Engineering Department, University of Patras, Patras, Greece

2009-2013 Lecturer, Civil Engineering Department, University of Patras, Patras, Greece

2013-present Assistant Professor, Civil Engineering Department, University of Patras, Patras, Greece

### PROFESSIONAL EXPERIENCE:

2001-2009 Environmental Engineer, Directorate of Environment and Planning and Directorate of Water Resources, Region of Western Greece (responsible for the evaluation of environmental impact studies related to infrastructure and environmental protection works, and for water resources management).

#### FELLOWSHIPS:

- Award from the Technical Chamber of Greece, 1989-90
- Graduate scholarship, Them. and Nik. Valsamakis Foundation, Athens, Greece, 1991-92
- Predoctoral fellowship in Civil Engineering, University of Patras, Patras, Greece, 1992-95 & 1996-98

#### MILITARY SERVICE:

1995-97      Hellenic Air Force

#### PROFESSIONAL REGISTRATION AND AFFILIATIONS:

Licensed Civil Engineer, Greece  
Hellenic Civil Engineers Association  
Technical Chamber of Greece (TCG)  
European Geosciences Union (EGU)  
International Water Association (IWA)  
Sigma Xi, The Scientific Research Society  
Water Environment Federation (WEF)

#### DOCTORAL DISSERTATION:

"The Anaerobic Process as the Initial Stage in the Treatment of Low-Strength Wastewater," (2000). Department of Civil Engineering, University of Patras, Patras, Greece

#### CHAPTER IN BOOK:

Manariotis, I.D., Grigoropoulos, S.G. and Hung, Y.T. (2010). "Anaerobic Treatment of Low-Strength Wastewater by a Biofilm Reactor." Handbook of Environmental Engineering, Vol. 11 *Environmental Bioengineering*, edited by L.K. Wang, J.H. Tay, S.T.L. Tay and Y.T. Hung, Humana Press, Springer Science+Buiseness, Totowa, NY, USA, DOI: 10.1007/978-1-60327-031-1

#### REFEREED PUBLICATIONS:

- A41 Orfanos, A.G. and Manariotis, I.D. (2019). "Algal Biofilm Ponds for Polishing Secondary Effluent and Resource Recovery." *Journal of Applied Phycology*, 31(3), 1765-1772.  
<https://doi.org/10.1007/s10811-018-1731-8> IF: 2,616

- A40 Marioglou, E., Frontistis, Z., Vakros, J. and Manariotis, I.D. and Mantzavinos, D. (2019). "Activation of Persulfate by Biochars from Valorized Olive Stones for the Degradation of Sulfamethoxazole." *Catalysts*, 9(5), 419. *Special Issue: Trends in Catalytic Wet Peroxide Oxidation Processes* <https://doi.org/10.3390/catal9050419>. IF: 3,444
- A39 Orfanos, A.G., Manariotis, I.D. and Karapanagioti, H.K. (2018). "Removal of Methylene Blue from Water by Food Industry by-Products and Biochars." *Desalination and Water Treatment* 103, 113-121. doi:10.5004/dwt.2018.21999. IF: 1,631
- A38 Kemmou, L., Frontistis, Z., Vakros, J., Manariotis, I.D. and Mantzavinos, D. (2018). "Degradation of Antibiotic Sulfamethoxazole by Biochar-Activated Persulfate: Factors Affecting the Activation and Degradation Processes." *Catalysis Today*, 313, 128-133. <https://doi.org/10.1016/j.cattod.2017.12.028> IF: 4,636
- A37 Aravantinou, A.F., Andreou, F, and Manariotis, I.D. (2017). "Long-Term Toxicity of ZnO Nanoparticles to *Scenedesmus Rubescens* Cultivated in Different Media." *Scientific Reports* 7:13454, 1-11, DOI:10.1038/s41598-017-13517-7. IF: 4,259
- A36 Aravantinou, A.F., Barkonikou, E, and Manariotis, I.D. (2017). "Microalgae Biomass Growth and Lipid Production Using Primary Treated Wastewater." *Desalination and Water Treatment* 91, 228-234. doi: 10.5004/dwt.2017.21069 IF: 1,631
- A35 Bloutsos, A.A., Manariotis, I.D. and Yannopoulos, P.C. (2017). "Levels of Metals Pb, Mn and Fe in the Period 2006-2007 in the Surface Water and Groundwater of Alfeios Catchment, Greece." *Environmental Processes* 4 (Suppl 1):S23–S34 doi:10.1007/s40710-017-0233-z
- A34 Manariotis, I.D., Karapanagioti, H.K., and Werner, D. (2017). "In Focus: Novel Sorbents for Environmental Remediation." *Journal of Chemical Technology and Biotechnology* 92(8), 1861. DOI 10.1002/jctb.5329. IF: 3,135
- A33 Boutsika, L.G., Karapanagioti, H.K., and Manariotis, I.D. (2017). "Effect of Chloride and Nitrate Salts Effect on Hg(II) Sorption by Raw and Pyrolyzed Malt Spent Rootlets." *Journal of Chemical Technology and Biotechnology*, 92(8), 1912-1918. DOI 10.1002/jctb.5215. IF: 3,135
- A32 Handakas, E., Manariotis, I.D., Yannopoulos, P., Zarkadas, I., and Sarigiannis, D. (2017). "Decision Support Tool for Urban Solid Waste Management." *Fresenius Environmental Bulletin* 26(1), 405-412. IF 0,425
- A31 Aravantinou, A.F., Frementiti, A., and Manariotis, I.D. (2016). "Post Treatment of Primary and Secondary Effluent by *Chlorococcum* sp." *Environmental Processes*, 3 (Suppl 1), S35-S45. DOI 10.1007/s40710-016-0153-3 IF: -
- A30 Toufexi, E., Dailianis, S., Vlastos, D., and Manariotis, I.D. (2016). "Mediated Effect of Ultrasound Treated Diclofenac on Mussel Hemocytes: First evidence for the Involvement of Respiratory Burst Enzymes in the Induction of DCF-Mediated non Specific Mode of Action." *Aquatic Toxicology*, 175, 144-153. DOI: 10.1016/j.aquatox.2016.03.017 IF: 4,129
- A29 Sfaelou, S., Papadimitriou, H., Manariotis I.D., Rouse, J., Vakros, J., and Karapanagioti, H.K. (2016). "Treatment of Low Strength Municipal Wastewater Containing Phenanthrene Using Activated Sludge and Biofilm Process". *Desalination and Water Treatment*, 57(26), 12047-12057. DOI:10.1080/19443994.2015.1048735 IF: 1,631
- A28 Vergini, S., Aravantinou, A.F., and Manariotis, I.D. (2016) "Harvesting of Freshwater and Marine Microalgae by Common Coagulants and Magnetic Microparticles". *Journal of Applied Phycology*, 28(2), 1041-1049. DOI: 10.1007/s10811-015-0662-x IF: 2,616
- A27 Aravantinou, A.F., and Manariotis, I.D. (2016). "Effect of Operating Conditions on *Chlorococcum* sp. Growth and Lipid Production." *Journal of Environmental Chemical Engineering*, 4(1), 1217-1223. <http://dx.doi.org/10.1016/j.jece.2016.01.028> IF: -

- A26 Sygouni, V., Manariotis, I.D., and Chrysikopoulos, C.V. (2016). "Experimental Investigation of the Effect of Carbon Dioxide on *Pseudomonas putida* Biofilms in a Two-Dimensional Glass Network Micromodel." *International Journal of Greenhouse Gas Control*, 46, 240-247. <http://dx.doi.org/10.1016/j.ijggc.2016.01.016> IF: 3,741
- A25 Manariotis, I.D., Fotopoulou, K.N. and Karapanagioti, H.K. (2015). "Preparation and Characterization of Biochar Sorbents Produced from Malt Spent Rootlets." *Industrial & Engineering Chemistry Research*, 54(39), 9577-9584. DOI: 10.1021/acs.iecr.5b02698 IF: 2,843
- A24 Sfaelou, S., Vakros, J., Manariotis, I.D., and Karapanagioti, H.K. (2015). "The Use of Potentiometric Mass Titration (PMT) Technique for Determining the Acid-base Behavior of Activated Sludge". *Global Nest*, 17 (2), 397-405. IF: 0,665
- A23 Aravantinou, A.F., Tsarpali, V., Dailianis, S., and Manariotis, I.D. (2015). "Effect of cultivation media on the toxicity of ZnO nanoparticles to freshwater and marine microalgae." *Ecotoxicology and Environmental Safety*, 114, 109-116. <http://dx.doi.org/10.1016/j.ecoenv.2015.01.016> IF: 3,743
- A22 Leftheriotis, G., Liveri, M., Galanopoulou, M., Manariotis, I.D., and Yianoulis, P. (2014). "A Simple Method for the Fabrication of WO<sub>3</sub> Films with Electrochromic and Photo Catalytic Properties". *Thin Solid Films*, 573, 6-13. <http://dx.doi.org/10.1016/j.tsf.2014.10.087> IF: 1,879
- A21 Dailianis, S., Tsarpali, V., Melas, K., Karapanagioti, H.K., and Manariotis, I.D. (2014). "Aqueous Phenanthrene Toxicity after High-frequency Ultrasound Degradation." *Aquatic Toxicology*, 147, 32-40. <http://dx.doi.org/10.1016/j.aquatox.2013.12.006> IF: 4,129
- A20 Boutsika, L.G., Karapanagioti, H.K., and Manariotis, I.D. (2014). "Aqueous Mercury Sorption by Biochar from Malt Spent Rootlets." *Water, Air & Soil Pollution* 225 (1), Article 1805. DOI 10.1007/s11270-013-1805-9 IF: 1,702
- A19 Manariotis, I.D. and Yannopoulos, P.C. (2014). "Impact of Human Activities and Infrastructure Works on Hydro Morphological Characteristics of Alfeios River, Greece." *Global Nest*, 16 (1), 136-145. IF: 0,710
- A18 Aravantinou, A.F., Theodorakopoulos, M.A., and Manariotis, I.D. (2013). "Selection of Microalgae for Wastewater Treatment and Potential Lipids Production." *Bioresource Technology*, 147, 130-134. <http://dx.doi.org/10.1016/j.biortech.2013.08.024> IF: 5,651
- A17 Valili, S., Siavalas, G., Karapanagioti, H.K., Manariotis, I.D., and Christanis, K. (2013). "Phenanthrene Removal from Aqueous Solutions Using Well-Characterized, Raw, Chemically Treated, and Charred Malt Spent Rootlets." *Journal of Environmental Management*, 128, 252-258. <http://dx.doi.org/10.1016/j.jenvman.2013.04.057> IF: 4,010
- A16 Chrysikopoulos, C.V., Manariotis, I.D. and V. Sigouna. (2013). "Virus Inactivation by High Frequency Ultrasound in Combination with Visible Light." *Colloids and Surfaces B: Biointerfaces*, 107(1), 174-179. <http://dx.doi.org/10.1016/j.colsurfb.2013.01.038> IF: 3,887
- A15 Anagnostopoulos, V.A., Manariotis, I.D., Karapanagioti, H.K. and Chrysikopoulos, C.V. (2012). "Removal of Mercury from Aqueous Solutions by Malt Spent Rootlets." *Chemical Engineering Journal*, 213, 135-141. <http://dx.doi.org/10.1016/j.cej.2012.09.074> IF: 6,216
- A14 Yiannopoulos, A.C., Manariotis, I.D. and Chrysikopoulos, C.V. (2012). " Assessment of the Effectiveness of a Solar System Heating an Anaerobic Bioreactor." *Water Air and Soil Pollution*, 223 (4), 1443-1454. doi 10.1007/s11270-011-0956-9 IF: 1,702
- A13 Manariotis, I.D., Karapanagioti, H.K., and Chrysikopoulos, C.V. (2011). "Degradation of PAHs by high frequency ultrasound." *Water Research*, 45, 2587-2594. doi:10.1016/j.watres.2011.02.009, 2011. IF: 6,942

- A12 Kordulis, C.H., Lycourghiotis, A., Karapanagioti, H.K., Papaefthymiou, H., Koutsoukos, P.G., Chrysikopoulos, C.V., K.V., Manariotis, I.D., Christanis, K. And Bouropoulos, N. (2010). University of Patras Intranetwork ARYs "Development and Evaluation of Sorbent Materials for Environmental Applications." *Global Nest Journal*. 12 (3), 340-341. *IF: 0,665*
- A11 Chrysikopoulos, C.V., Masciopinto, C., La Mantia, R. and Manariotis, I.D. (2010). "Removal of Biocolloids Suspended in Reclaimed Wastewater by Injection into a Fracture Aquifer Model." *Environmental Science and Technology*, 44(3), 971-977, 2010. doi: [10.1021/es902754n](https://doi.org/10.1021/es902754n) *IF: 6,198*
- A10 Yiannopoulos, A.C., Manariotis, I.D. and Chrysikopoulos, K.V. (2008). "Design and Analysis of a Solar Reactor for Anaerobic Wastewater Treatment." *Bioresource Technology*, 99 (16), 7742-7749. doi:[10.1016/j.biortech.2008.01.067](https://doi.org/10.1016/j.biortech.2008.01.067). *IF: 5,651*
- A9 Manariotis, I.D. and Grigoropoulos, S.G. (2008). "Restart of Anaerobic Filters Treating Low-Strength Wastewater." *Bioresource Technology*, 99 (9), 3759-3589. doi: [10.1016/j.biortech.2007.07.048](https://doi.org/10.1016/j.biortech.2007.07.048). *IF: 5,651*
- A8 Manariotis, I.D. and Grigoropoulos, S.G. (2006). "Municipal Wastewater Treatment Using Upflow Anaerobic Filters." *Water Environment Research*, 78 (3), 233-242. doi: [10.2175/106143005X90029](https://doi.org/10.2175/106143005X90029). *IF: 0,910*
- A7 Manariotis, I.D. and Grigoropoulos, S.G. (2006). "Anaerobic Filter Treatment of Municipal Wastewater: Biosolids Behavior." *Journal of Environmental Engineering, ASCE*, 132 (1), 23-31. doi [10.1061/\(ASCE\)0733-9372\(2006\)132:1\(23\)](https://doi.org/10.1061/(ASCE)0733-9372(2006)132:1(23)). *IF: 1,541*
- A6 Manariotis, I.D. and Yannopoulos, P.C. (2005). "Environmental Impact of Solids Waste Management Methodologies and Perspectives". *Technika Chronika, Scientific Journal of TCG I*, 2-3, 21-34, (In Greek with extended summary in English). *IF: -*
- A5 Manariotis, I.D. and Yannopoulos, P.C. (2004). "Adverse Effects on Alfeios River Basin and an Integrated Management Framework Based on Sustainability." *Environmental Management*, 34 (2), 261-269. doi: [10.1007/s00267-004-0069-y](https://doi.org/10.1007/s00267-004-0069-y). *IF: 1,878*
- A4 Hiras, D.N., Manariotis, I.D. and Grigoropoulos, S.G. (2004). "Organic and Nitrogen Removal in a Two-Stage Rotating Biological Contactor Treating Municipal Wastewater." *Bioresource Technology*, 93 (1), 91-98. doi:[10.1016/j.biortech.2003.06.005](https://doi.org/10.1016/j.biortech.2003.06.005). *IF: 5,651*
- A3 Manariotis, I.D. and Grigoropoulos, S.G. (2003). "Anaerobic Treatment of Low-Strength Wastewater in a Biofilm Reactor." *Journal of Environmental Science and Health, Part A-Toxic/Hazardous Substances & Environmental Engineering*, A38 (10), 2057-2068. doi: [10.1081/ESE-120023332](https://doi.org/10.1081/ESE-120023332). *IF: 1,425*
- A2 Manariotis, I.D. and Grigoropoulos, S.G. (2002). "Municipal Wastewater Treatment with an Anaerobic Filter - Stabilization Pond System." *Technika Chronika, Scientific Journal of TCG I*, No. 1-2, 49-60(In Greek with extended summary in English). *IF: -*
- A1 Manariotis, I.D. and Grigoropoulos, S.G. (2002). "Low-Strength Wastewater Treatment Using an Anaerobic Baffled Reactor." *Water Environment Research*, 74 (2), 170-176. doi: [10.2175/106143002X139884](https://doi.org/10.2175/106143002X139884). *IF: 0,910*

\* IF: Impact factor, Web of Science, 2016.

#### PUBLICATIONS IN CONFERENCE PROCEEDINGS:

- B39 Tzachristas, A., Papanicolaou, P., Tzepkini, V., Manariotis, I.D. and Karapanagioti, H.K. (2018). "Biochars Made from Agro-Industrial By-Products Remove Chlorine and Chlorination By-Product (Chloroform) from Water and Wastewater." *EGU, European Geoscience Union General Assembly 2018*, April 8-13, Vienna, PICO SSS8.2, Vol. 20, EGU2018-10457, 2018.

- B38 Sklivaniotis, L., Manariotis, I. and Karapanagioti, H. (2018). "Removal of Chlorine from Tap Water in Biochar Packed Columns." *EGU, European Geoscience Union General Assembly 2018*, April 8-13, Vienna, PICO SSS8.2, Vol. 20, EGU2018-6312, 2018.
- B37 Tzachristas, A., Manariotis, I. and Karapanagioti, H. (2017). "Biochars Made from Agro-Industrial By-Products Remove Chlorine from Water." *EGU, European Geoscience Union General Assembly 2017*, April 23-28, Vienna, PICO SSS8.7, Vol. 19, EGU2017-494, 2017.
- B36 Kamenidou, C., Manariotis, I. and Karapanagioti, H. (2017). "Efficiency of Biochar Produced from Malt Spent Rootlets to Remove Mercury and Dyes." *EGU, European Geoscience Union General Assembly 2017*, April 23-28, Vienna, PICO SSS8.7, Vol. 19, EGU2017-12067, 2017.
- B35 Aravantinos, K., Isari, E., Karapanagioti, H.K., Manariotis, I.D., and Werner, D. (2016). "Magnetic sorbents added to soil slurries lower Cr aqueous concentration." *EGU, European Geoscience Union General Assembly 2016*, April 17-22, Vienna, PICO SSS8.3, Vol. 18, EGU2016-9572, 2016.
- B34 Dailianis, S., Tsouloufa, A., Antonopoulou, M., Konstantinou, I., Karapanagioti, H.K., and Manariotis, I.D. (2016). "Assessment of biochar safety via its leachate characterization using physicochemical and biological assays." *EGU, European Geoscience Union General Assembly 2016*, April 17-22, Vienna, PICO SSS8.3, Vol. 18, EGU2016-13372, 2016.
- B33 Tzachristas, A., Xirou, M., Manariotis, I.D., Dailianis, S., and Karapanagioti, H.K. (2016). "Biochars made from agro-industrial by-products remove chlorine and lower water toxicity." *EGU, European Geoscience Union General Assembly 2016*, April 17-22, Vienna, PICO SSS8.3, Vol. 18, EGU2016-5108, 2016.
- B32 Barkonikou, E.F., Manariotis, I.D., and Aravantinou, A.F. (2016). "Microalgae biomass growth and lipid production using primary treated wastewater." *13<sup>th</sup> IWA Specialized Conference on Small Water and Wastewater Systems & 5<sup>th</sup> IWA Specialized Conference on Resources-Oriented Sanitation, September 14-17, 2016, Athens, Greece, pp.1-7.*
- B31 Frementiti, A., Manariotis, I.D., and Aravantinou, A.F. (2016). "Culture optimization of Chlorococcum sp. for biomass and lipid production." *Proceedings of the 13<sup>th</sup> International Conference on Protection and Restoration of the Environment, July 3-8, 2016, Mykonos island (Abstract).*
- B30 Aravantinou, A., Bloutsos, A., Tsiboukis, V., Manariotis, I.D., and Yannopoulos, P.C. (2016). "Preliminary results of seawater quality measurements at the new south port of Patras, Greece." *Proceedings of the 13<sup>th</sup> International Conference on Protection and Restoration of the Environment, July 3-8, 2016, Mykonos island.*
- B29 Bloutsos, A.A., Manariotis, I.D., and Yannopoulos P.C. (2015). "Concentrations of Metals Pb, Mn, Fe, in Alfeios River Basin During the period 2006-2007." *Proceedings of the 3<sup>rd</sup> Common Conference (13<sup>th</sup> of Hellenic Hydrotechnical Association, 9<sup>th</sup> of Hellenic Committee on Water Resources Management and 1<sup>st</sup> of the Hellenic Water Association) "Integrated Water Resources Management in the New Era", December 10-12, 2015, Athens, Greece, Vol. II, 689-696 (In Greek).*
- B28 Valili, S., Maneta, A., Manariotis, I.D., and Karapanagioti, H.K. (2015). "Development of Biochar Sorbents from Food-Industry By-Products for the Removal of Phenanthrene and Mercury From Aqueous Solutions." *TINOS 2015 3<sup>rd</sup> International Conference on Sustainable Solid Waste Management, July 2-4, 2015, Tinos, Greece.*
- B27 Frementiti, A., Mannes, A., Aravantinou, A., and Manariotis, I.D. (2015). "Treatment of Primary and Secondary Effluent by *Chlorococcum sp.*" *WASTENET2015 - 1<sup>st</sup> International Scientific Conference on Sustainable Solutions to Wastewater Management, June 19-21, 2015, Kavala, Greece, 1-8.*

- B26 Orfanos, A., Karapanagioti, H.K., and Manariotis, I.D. (2015). "Sorption of Methylene Blue onto Food Industry By-products." *IWWATV-International Conference Water & Wastewater Valorisation and Treatment*, May 21-23, 2015, Athens, Greece, pp. 1-9.
- B25 Fotopoulou, K.N., Manariotis, I.D., and Karapanagioti, H.K. (2014). "Sorbent Biochar Characteristics Produced from Agro-Industrial Waste." *4<sup>th</sup> International Symposium on Green Chemistry for Environment, Health and Development*, September 24-26, 2014, Kos, Greece (Abstract).
- B24 Sygouni, V., Vassilopoulos, D., Manariotis, I.D., and Chrysikopoulos, C.V. (2014). "Transport of TiO<sub>2</sub>Nanoparticles Through Water Saturated Packed Columns." *12<sup>th</sup> International Conference on Protection and Restoration of the Environment*, June 29-July 3, 2014, Skiathos, Greece.
- B23 Manariotis, I.D., Karapanagioti, H.K., and Werner, D. (2014). "Novel Sorbents for Environmental Remediation." PICO presentation. *EGU, European Geoscience Union General Assembly 2014 Vienna*, April 27- May 2, Vienna, Austria, SSS0.1, Vol. 16, EGU2014-10952, 2014.
- B22 Drakopoulou, S., Aravantinou, A.F., and Manariotis, I.D. (2014). "Effects of Nitrogen and Phosphorus Concentrations on the Growth of a Freshwater Microalgae *Chlorococcum sp.*" *YAS2014: Young Algaeneers Symposium 2014, 3-5 Apr 2014, Montpellier-Narbonne, France*.
- B21 Aravantinou, A.F. and Manariotis, I.D. (2014). "Microalgae: From Sewage Treatment to Potential Biofuel Production." *e-Proceedings IWA Regional Symposium on Water, Wastewater and Environment: Traditions and Culture*, edited by I.K. Kalavrouziotis and A.N. Angelakis, Hellenic Open University, March 22-24, 2014, Patras, Greece, 1033-1042.
- B20 Manariotis, I.D., Kamenidou, C., and Karapanagioti, H.K. (2013). "Sorption of mercury by biochar produced from malt spent rootlets: Effect of pyrolysis temperature." *BCD 2013 - International Conference Biochars, Composts, and Digestates. Production, Characterization, Regulation, Marketing, Uses and Environmental Impact*, October 17-20, 2013, Bari.
- B19 Karapanagioti, H.K. and Manariotis, I.D. (2012). "Biochar sorbents produced from food-industry byproducts." *3<sup>rd</sup> International Symposium on Green Chemistry for Environment, Health and Development*, October 3-5, 2012, Skiathos, Greece.
- B18 Boutsika, L., Manariotis, I.D. and Karapanagioti, H.K. (2012). "Biochar produced from Malt Spent Rootlets and its use for mercury removal from aqueous solutions." *3<sup>rd</sup> International Symposium on Green Chemistry for Environment, Health and Development*, October 3-5, 2012, Skiathos, Greece.
- B17 Giannelos, D. and Manariotis, I.D. (2012). "Dewatering of sewage sludge assisted by solar energy." *Ecotechnologies for Wastewater Treatment 2012 International Conference, IWA Specialist Conference*, June 25-27, 2012, Santiago de Compostela, Spain.
- B16 Theodorakopoulos, M., Papadimitriou, C.A., Sfaelou, S., Manariotis, I.D., Vakros, J., Rouse, J.D., and Karapanagioti, H.K. (2011). "Effect of toxic compounds on wastewater treatment in conventional and attached on biocarriers activated sludge." *3<sup>rd</sup> International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference*, Skiathos, Greece June 19-24, 2011.
- B15 Manariotis, I.D., Karapanagioti, H.K., and Chrysikopoulos, C.V. (2009). "High Frequency Ultrasonic Treatment for Phenanthrene Degradation in Aqueous Solutions." *11<sup>th</sup> International Conference on Environmental Science and Technology*, Chania, Crete, Greece, September 3-5, 2009, Vol. B, 597-601.

- B14 Manariotis, I.D., Yiannopoulos, A.Ch., and Chrysikopoulos, C.V. (2008). "Solar reactor for anaerobic wastewater." *4<sup>th</sup> European Bioremediation Conference*, September 3-6, 2008, Chania, Greece, p. 081.
- B13 Manariotis, I.D., La Mantia, R., Masciopinto, C., and Chrysikopoulos, C.V. (2008). "Clogging of a Fractured Filter by Biocolloids During Passage of Reclaimed Wastewater." *PRE9: Protection and Restoration of the Environment IX*, Kefalonia, Greece, June 29 – July 3 2008, 172-179.
- B12 Yannopoulos, P.C., Manariotis, I.D. Ziogas, A.I. and Kaleris, V.K. (2007). "Methodology of River Pollution Assessment and Preliminary Results." *32<sup>nd</sup> Congress of IAHR, Harmonizing the Demands of Art and Nature in Hydraulics*, Venice, Italy, July 1-6 2007.
- B11 Hamalidis, E., Koussathana, M.N. and Manariotis, I.D. (2007). "Transboundary Management Framework of Evros River Basin." *CEMEPE - Proceedings of SECOTOX Conference and the International Conference on Environmental Management, Engineering, Planning and Economics*, Skiathos, edited by A. Kungolos, K. Aravossis, A. Karagiannidis, and P. Samaras, Greece, June 24-28, 2007, 1016-1022.
- B10 Manariotis, I.D. and Yannopoulos, P.C. (2006). "Integrated Management Plan for the Alfeios River Basin." in CD-ROM Proceedings of the *2<sup>nd</sup> International Congress "AQUA2006-Water Science and Technology-Integrated Management of Water Resources*, Athens, Greece, 23-26 November 2006, 6 pages.
- B9 Bili, V. and Manariotis, I.D. (2006). "Wastewater Management - Legal Framework and Administrative Practice." in CD-ROM Proceedings of the *2<sup>nd</sup> International Congress "AQUA2006 - Water Science and Technology-Integrated Management of Water Resources*, Athens, Greece, 23-26 November 2006, 5 pages.
- B8 Yiannopoulos, A.Ch., Syngouna, V.I., Bloutsos, A.A., Manariotis, I.D., Yannopoulos, P.C. and Chrysikopoulos, C.V. (2006). "Solar Reactor for Environmental Applications: Preliminary Design." *Protection and Restoration of the Environment VIII*, 3-7 July 2006, Chania, 1-8.
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- B3 Theodorakopoulos, D.D., Chassiakos, A.P. and Manariotis, I.D. (2001). "Improvements in Highway Maintenance Management in Greece." *9<sup>th</sup> AASHTO/TRB Maintenance Management Conference*, 16-20 July 2000, Juneau, Alaska; in *Conference Proceedings 23: Maintenance Management*, Transportation Research Board, National Research Council, National Academy Press, Washington, DC, 249-256.



- B2 Manariotis, I.D. and Grigoropoulos, S.G. (2000). "Oxidation Pond Treatment of Anaerobically Pretreated Wastewater." *Proceedings International Conference Protection and Restoration of the Environment V*, edited by V.A. Tsihrintzis, G.P. Korfiatis, K.L. Katsifarakis and A.C. Demetracopoulos, 3-6 July 2000, Thassos, I: 599-606.
- B1 Manariotis, I.D. and Grigoropoulos, S.G. (1994). "Anaerobic Treatment of Municipal Wastewater". *Proceedings of the International Conference Restoration and Protection of the Environment II*, edited by A.C. Demetracopoulos, C.D. Hadjitheodorou and G.P. Korfiatis, 24-26 August, 1994, Patras, 201-208.

#### CONFERENCE POSTER PRESENTATIONS:

- C44 Aravantinou, A.F., Andreou, F, and Manariotis, I.D. (2018). "Long-Term Exposure of ZnO Nanoparticles to *Freshwater Microalgae Cultivated in Semi-batch and Continuous Mode.*" *SETAC Europe 28th Annual Meeting, May 13-17, Rome, 2018.*
- C43 Dormousoglou, M., Dailianis,Σ., Tsouloufa, A., Konstantinou, I., Vlastos, D., Antonopoulou, M., Lavranou, A., Karapanagioti, H.K. and Manariotis, I. (2017). "Physicochemical and Biological Characteristics of Leachate from Biochar Produced from Malt Spent Rootlets." *27<sup>th</sup> Annual Meeting of the Society of Environmental Toxicology and Chemistry Europe (SETAC Europe)*, May 7–11, 2017, Brussels, Belgium, p. 324 (TH181).
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- C41 Sklivaniotis, L., Manariotis, I.D. and Karapanagioti, H.K. (2018). "Removal of chlorine from tap water in biochar packed columns." *EGU, European Geoscience Union General Assembly 2018*, April 8-13, Vienna, SSS8.2, Vol. 20, EGU2017-6312, 2018.
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- C37 Orfanos, A., Manariotis, I.D., and Hrissi K. Karapanagioti (2016). "Methylene Blue Removal by Biochars from Food Industry By-Products." *EGU, European Geoscience Union General Assembly 2016*, April 17-22, Vienna, SSS5.10, Vol. 18, EGU2016-921, 2016.
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- C35 Aravantinos, K., Isari, E., Karapanagioti, H.K., Manariotis, I.D., and Werner, D. (2016). "Magnetic sorbents added to soil slurries lower Cr aqueous concentration." *EGU, European Geoscience Union General Assembly 2016*, April 17-22, Vienna, PICO SSS8.3, Vol. 18, EGU2016-9572, 2016.

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- C24 Frementiti, A., Aravantinou, A.F. and Manariotis, I.D. (2015). "Microalgae biomass growth using primary treated wastewater as nutrient source and their potential use for lipids production." *EGU, European Geoscience Union General Assembly 2015*, April 12-17, Vienna, ERE3.7/SSS11.7, Vol. 17, EGU2015-11340, 2015
- C23 Aravantinou, A.F. Mannes, A. and Manariotis, I.D. (2014). "Cultivation of *Chlorococcum sp.* in secondary treated sewage." *12<sup>th</sup> International Conference Protection and Restoration of the Environment –PRE12*, June 29 – July 4, 2014, Skiathos Island, Greece.
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- C19 Fotopoulou, K., Karapanagioti, H.K., and Manariotis, I.D. (2014). Biochar from coffee residues: A new promising sorbent. *EGU, European Geoscience Union General Assembly 2014 Vienna*, April 27- May 2, Vienna, Austria, SSS9.8, Vol. 16, EGU2014-949, 2014.
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- C15 Aravantinou, F.N., Tsarpali, V., Dailianis, S., and Manariotis, I.D. (2013). Zinc Oxide (ZnO) nanoparticles toxic potency on different microalgae species. (Abstract), *EGU, European Geoscience Union General Assembly 2013 Vienna*, April 7-12, Vienna, Austria, SSS2.4/EGU2013-11084, 2013.
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- C13 Aravantinou, F.N., Manariotis, I.D., and Chrysikopoulos, C.V. (2013). E. coli inactivation by high frequency ultrasound. (Abstract), *EGU, European Geoscience Union General Assembly 2013 Vienna*, April 7-12, Vienna, Austria, HS8.1.6/EGU2013-2457, 2013.
- C12 Fotopoulou, K.N., Manariotis, I.D., and Karapanagioti, H.K. (2013). Biochar characteristics produced from malt spent rootlets. (Abstract), *EGU, European Geoscience Union General Assembly 2013 Vienna*, April 7-12, Vienna, Austria, SSS2.4/EGU2013-805, 2013.
- C11 Boutsika, L., Manariotis, I.D., and Karapanagioti, H.K. (2013). Biochar from malt spent rootlets for the removal of mercury from aqueous solutions. (Abstract), *EGU, European Geoscience Union General Assembly 2013 Vienna*, April 7-12, Vienna, Austria, SSS2.4/EGU2013-34, 2013.
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- C7 Sfaelou, S., Vakros, J., Manariotis, I.D. and Karapanagioti, H.K. (2011). The interaction of activated sludge microorganisms with polymer biocarriers, (Abstract), *EGU, European Geoscience Union General Assembly 2011 Vienna*, April 3-8, Vienna, Austria, HS8.1.7/A466-EGU2011-11157, 2011.
- C6 Manariotis, I.D., Kapanagioti, H.K. and Chrysikopoulos, C.V. (2011). Degradation of PAHs and biocolloids by high frequency ultrasound, (Abstract), *EGU, European Geoscience Union General Assembly 2011 Vienna*, April 3-8, Vienna, Austria, HS8.1.7/A467-EGU2011-11157, 2011.
- C5 Chrysikopoulos, C.V., Masciopinto, C., La Mantia, R. and Manariotis, I.D. (2010). Clogging of fractured formations by biocolloids suspended in reclaimed wastewater, *Proceedings of the International Conference Protection and Restoration of the Environment X*, July 5-9, 2010, Corfu, Greece, PRE1093ACT.
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- C3 Chrysikopoulos, C.V., Masciopinto, C., La Mantia, R. and Manariotis, I.D. (2010). "Removal of biocolloids suspended in reclaimed wastewater by injection in a fractured aquifer model", (Abstract), *EGU, European Geoscience Union General Assembly 2010*, May 2-7, 2010, Vienna, Austria, HS7.8/A317-EGU2010-6827, 2010.
- C2 Chrysikopoulos, C.V., Masciopinto, C., La Mantia, R. and Manariotis, I.D. (2009). "Clogging of Fractured Formations by Biocolloids Suspended in Reclaimed Wastewater." *2009 AGU Fall Meeting*, December 14-18, 2009, San Fransisco, (Abstract), *EOS, Transactions, American Geophysical Union*, H53A-0911.
- C1 Manariotis, I.D., Yiannopoulos, A.Ch., and Chrysikopoulos, C.V. (2008). "Performance of a solar reactor for anaerobic wastewater treatment under different climatic conditions." (Abstract), *EGU, European Geoscience Union General Assembly 2008*, April 13-18, 2008, Vienna, Austria, HS2.1/NP1.05-1TU5P-0223.

#### PAPERS IN SEMINARS:

- D2 Manariotis, I.D. (2005). "Greek Experience in Project Evaluation." Seminar on Sharing Experience of Environmental Integration "Moving Forward". *Greening Regional Development Programmes (GRDP)*, InterregIIIA, Vienna, Austria, May 18 2005.
- D1 Manariotis, I.D. (1996). "Anaerobic Treatment of Low Strength Wastewater and Sewage". Seminar Treatment and Disposal of Industrial Wastewater. *GSRT Human Resource Networks for R&D Information Dissemination*, Department of Civil Engineering, University of Patras, November 21-22, 1996, Patras, 233-238.

#### RESEARCH PROJECTS:

- E10 2015-2017. "Investigation of Seawater Quality at the New Port of Patras". No. D 935. Patras Port Authority. Project coordinator Dr. P.C. Yannopoulos. Department of Civil Engineering, University of Patras, Patras, Greece.

- E9 2012-2015, "Geomechanics and Environment of CO<sub>2</sub> Geological Storage. "Hellenic Ministry of National Education and Religious Affairs, THALIS. Budget 521,740 €. Project coordinator Dr. E. Papamichos. Department of Civil Engineering, Aristotle University of Thessaloniki, Greece.
- E8 2012-2015, "BioNFate-Fate and Transport of Bio colloids and Nanoparticles in Groundwater and Effects of Polluted Water on Public Health."Hellenic Ministry of National Education and Religious Affairs, ARISTEIA I (No. 1185).Budget 500,000 €. Project coordinator Dr. C.V. Chrysikopoulos. Department of Civil Engineering, University of Patras, Patras, Greece.
- E7 2011-2014, Project coordinator, "Advanced Wastewater Treatment by Microalgae and Feasibility of Microalgae for Biodiesel Production." Program C. Carathéodory. Budget 33,000 €. Department of Civil Engineering, University of Patras, Patras, Greece.
- E6 2007-2008, "PRIMAC-Integrated Actions in Order to Protect Coastal Areas from Anthropogenic Pollution and for Groundwater Restoration by Reversing the Seawater Intrusion in Coastal Aquifers." INTERREG IIIA Greece-Italy 2000-2006. Budget 932.000€, Department of Civil Engineering, University of Patras, Greece, Consiglio Nazionale Delle Ricerche, Istituto di Ricerca Sulle Acque, Bari, Italy.
- E5 2005-2007, "Development of Low-Cost Methodologies for Fast Prediction and Monitoring of Rivers Water Quality", EPEAEK-PYTHAGORAS II, Budget 50,000 €, Civil Engineering Department, University of Patras, Patras, Greece.
- E4 2005-2007, "Reduction of Environmental Pollution with Use of Solar Energy for Drying of Products -Improvement of Biochemical Processes and Rational Installation of Emission of Pollutants Sources", EPEAEK ARCHIMEDES II, Budget 75,000 €, Department of Mechanical Engineering, Technological Educational Institute of Patras, Patras, Greece.
- E3 2005-2007, "Greening Regional Development Programmes", Region of Western Greece, UK Environment Agency.
- E2 1998-00, "ANODOS-Development of a System for Optimum Resources Allocation for Highway Maintenance in Greece", Civil Engineering Department, University of Patras, Patras, Greece.
- E1 1991-92, "Research Investigation of Physical-Chemical Parameters of Seawater and its Biological Pollution Potential on Underwater Construction in the Area of Rio-Antrirrio for the Bridge Project", Civil Engineering Department, University of Patras, Patras, Greece.

#### ADVISEES:

##### Ph.D. Students:

Andriana F. Aravantinou, 2011-2018  
Ioanna Karathanassi, 2014-present  
Vaso Tsavatopoulou, 2017-present

##### M.S. Students (Thesis option):

Georgios Karageorgos, 2018-present  
Eirini Mpiliani, 2018-present  
Savvas Perakis, 2017-present  
Marianthi Ageli, 2019  
Emmanuel Manoussakis, 2018  
George Lekkas, 2018  
Dionyssios Vassilopoulos, 2018  
Alexis Orfanos, 2017  
Leandros Sklivaniotis, 2017  
Charalambos Sinos, 2015  
Ioannis Zaharis, 2015  
Sofia Vergini, 2014

#### Undergraduate Students (Thesis):

Dimos Asimakopoulos, 2019  
Demetrios Fakas, 2018  
Savvas Perakis, 2016  
Marianthi Ageli, 2016  
Eleni Dermati, 2015  
Christos Kolotouros, 2015  
Manolis Manoussakis, 2015  
Eirini Mparkonikou, 2015  
Alexios Orfanos, 2015  
Charoula Kamenidou, 2015  
Demetrios Vassilopoulos, 2015

Styliani Drakopoulou, 2014  
Anastasia Frementiti, 2014  
Fytoula Andreou, 2014  
Maria Eirini Papanicolopoulou, 2014  
Antonios Mannes, 2014  
Mena Mastoraki, 2013  
Ioannis Zaharis, 2013  
Athanasios Sevastopoulos, 2011  
Konstantinos Katsaros, 2011  
Theoni-Maria Massara, 2011

#### SPECIAL ISSUES ORGANIZER:

*Special Issue on: Novel Sorbents for Environmental Remediation, Journal of Chemical Technology and Biotechnology, 92, 1861, 2017.*

#### CONFERENCES: Member of Organizing and Scientific Committees

- Convener, Presenting Interactive Content (PICO), SSS8.4 "Novel Sorbents Materials for Environmental Remediation", PICO Session, European Geophysical Union General Assembly 2019, April 7-12, 2019, Vienna, Austria.
- Convener, Presenting Interactive Content (PICO), SSS8.2 "Novel Sorbents Materials for Environmental Remediation", PICO Session, European Geophysical Union General Assembly 2018, April 8-13, 2018, Vienna, Austria.
- Convener, Presenting Interactive Content (PICO), SSS8.7 "Novel Sorbents Materials for Environmental Remediation", PICO Session, European Geophysical Union General Assembly 2017, April 23-28, 2017, Vienna, Austria.
- Member of the Scientific Committee, "5<sup>th</sup> Panhellenic Conference of Green Chemistry & Sustainable Development", Hellenic Green Chemistry Network, October 20-22, 2017, Patras, Greece.
- Convener, Presenting Interactive Content (PICO), SSS8.7 "Novel Sorbents Materials for Environmental Remediation", PICO Session, European Geophysical Union General Assembly 2017, April 23-28, 2017, Vienna, Austria.
- Convener, Presenting Interactive Content (PICO), SSS8.3 "Novel Sorbents Materials for Environmental Remediation", PICO Session, European Geophysical Union General Assembly 2016, April 17-22, 2016, Vienna, Austria.
- Convener, SSS8.1 "Novel Sorbents Materials for Environmental Remediation", European Geophysical Union General Assembly 2015, April 12-17, 2015, Vienna, Austria.
- Convener, SSS9.8 "Novel Sorbents Materials for Environmental Remediation", European Geophysical Union General Assembly 2014, April 27-May 2, 2014, Vienna, Austria.
- Convener, SSS2.4 "Novel Sorbents Materials for Environmental Remediation", European Geophysical Union General Assembly 2013, April 7-12, 2013, Vienna, Austria.
- Member of the Organizing and Scientific Committee, "Integrated Management of Water Resources Towards Sustainable Development", 2<sup>nd</sup> Conference of Hellenic Hydrotechnical Association and Greek Committee for Water Resources Management, October 11-13, 2012, Patras, Greece.
- Member of the Organizing Committee, EUCEET Association Conference, "New trends and challenges in civil engineering education", November 24-25, 2011, Patras, Greece.
- Co-Convener, HS8.1.7 session on "Fate and Transport of Biocolloids in Environmental Systems", European Geophysical Union General Assembly 2011, April 4, 2011, Vienna, Austria.

#### REVIEWER IN JOURNALS:

- *American Journal of Environmental Engineering*
- *Applied Microbiology and Biotechnology*
- *Canadian Journal of Microbiology*
- *Chemical Engineering Journal*
- *Chemosphere*
- *CLEAN - Soil, Air, Water*
- *Colloids and Surfaces A: Physicochemical and Engineering Aspects*
- *Aquatic Toxicology*
- *Arabian Journal of Chemistry*
- *Desalination and Water Treatment Journal*
- *Ecotoxicology and Environmental Safety*
- *Environmental Pollution*
- *Environmental Processes*
- *Environmental Progress and Sustainable Energy*
- *Environmental Protection Engineering*
- *Environmental Science and Technology*
- *Environmental Technology*
- *Fresenius Environmental Bulletin*
- *Fuel Processing Technology*
- *Global Nest*
- *Hydrological Sciences Journal*
- *Industrial & Engineering Chemistry Research*
- *Journal of Applied Phycology*
- *Journal of Chemical Technology Biotechnology*
- *Journal of Applied Phycology*
- *Journal of Environmental Chemical Engineering*
- *Journal of Hazardous Materials*
- *Journal of Environmental Quality*
- *Journal of Marine Biology & Oceanography*
- *Journal of Water, Sanitation and Hygiene for Development*
- *Land Degradation & Development*
- *Process Biochemistry*
- *Royal Society Open Science*
- *Science of the Total Environment*
- *Scientific Reports*
- *Transport in Porous Media*
- *Water*
- *Water Air & Soil Pollution*
- *Water Environment Research*
- *Water Research*
- *Water Science & Technology*

#### REVIEWER IN INTERNATIONAL CONFERENCES:

- *IWA Regional Symposium on Water, Wastewater & Environment: Traditions & Culture, 22-24 March 2014, Patras, Greece.*
- *IWA World Water Congress & Exhibition, 21- 26 September 2014, Lisbon, Portugal.*
- *IWA World Water Congress & Exhibition, 16- 21 September 2012, Busan, Korea.*

#### EVALUATOR IN RESEARCH PROPOSALS:

- *2015, 2016 ERANETMED Call of Program Owners from EU Member States, Associated Countries and Mediterranean Partner Countries.*
- *2015, German-Egyptian Research Fund GERF, German Ministry of Education and Research.*
- *2014-2019, National Priority Research Programme of Qatar, Qatar.*
- *2010, National Framework Programmes for Research Technological Development and Innovation, Research Promotion Foundation, Cyprus.*

#### TEACHING ACTIVITIES:

##### **University of Patras**

*Undergraduate courses*

Wastewater Treatment  
Environmental Chemistry  
Environmental Measurements  
Ecology for Civil Engineers

*Graduate courses*

Design of Wastewater Treatment Facilities  
Experimental Analysis and Design of Environmental Protection Works  
Natural Wastewater Treatment Systems  
Resource recovery from wastewater

Modelling of wastewater treatment plants

**Hellenic Open University** (*Graduate courses*)

Design, Environmental Consequences and Methods for their Evaluation (PSE51)

Construction Law and Construction Safety (DCHT60)

Liquid Waste Management (DIA60)