

Ioannis Manariotis

Associate Professor of Environmental Engineering



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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:

- Phototrophic wastewater treatment (microalgae; biofilms; biofuels)
- Resource recovery from wastewater
- Physicochemical water and wastewater treatment using novel sorbents
- Biological wastewater treatment with emphasis on the direct anaerobic treatment of low-strength wastewater using biofilm and sludge bed reactors
- Toxicity of nanoparticles on microalgae
- Advanced oxidation processes

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
- 2013-2019 Assistant Professor, Civil Engineering Department, University of Patras, Patras, Greece

2019-present Associate 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:

- A54 Vakros, J., Manariotis, I.D., Dracopoulos, V., Mantzavinos, D. and Lianos, P. (2021). "Biochar from Spent Malt Rootlets and its Application to an Energy Conversion and Storage Device." *Chemosensors*, 9, 57; <https://doi.org/10.3390/chemosensors9030057>
- A53 Tsavatopoulou, V.D. Aravantinou, A.F. and Manariotis, I.D. (2021). "Comparison of *Botryococcus braunii* and *Neochloris vigensis* Biofilm Formation on Vertical Oriented Surfaces." *Biointerface Research in Applied Chemistry*, 11(5), 12843 - 12857; <https://doi.org/10.33263/BRIAC115.1284312857>
- A52 Ntzoufra, P., Vakros, J., Frontistis, Z., Tsatsos, S., Kyriakou, G., Kennou, S., Manariotis, I.D., and Mantzavinos, D. (2021). "Effect of sodium persulfate treatment on the physicochemical properties and catalytic activity of biochar prepared from spent malt rootlets." *Journal of Environmental Chemical Engineering*, 9(2), 105071; <https://doi.org/10.1016/j.jece.2021.105071>
- A51 Aravantinou, A.F., Andreou, F. and Manariotis, I.D. (2020). "Long-Term Toxicity of ZnO Nanoparticles on *Scenedesmus Rubescens* Cultivated in Semi-Batch Mode." *Nanomaterials*, 10(11), 2262; doi:10.3390/nano10112262
- A50 Tsavatopoulou, V.D. and Manariotis, I.D. (2020). "The effect of surface properties on the formation of *Scenedesmus rubescens* biofilm." *Algal Research*, 52, 102095, 1-9. <https://doi.org/10.1016/j.algal.2020.102095>
- A49 Lykoudi, A., Frontistis, Z., Vakros, J. Manariotis, I.D. and Mantzavinos, D. (2020). "Degradation of sulfamethoxazole with persulfate using spent coffee grounds biochar as activator." *Journal of Environmental Management*, 271, 111022, 1-11. <https://doi.org/10.1016/j.jenvman.2020.111022>
- A48 Turlouki, K., Tsavatopoulou, V., Alexandropoulos, D., Manariotis, I.D. and Mazzucato, S. (2020). "A Novel Microalgae Harvesting Method Using Laser Micromachined Glass Fiber Reinforced Polymers." *Photonics*, 7(2), 42, <https://doi.org/10.3390/photonics7020042>
- A47 Tsavatopoulou, V.D., Vakros, J., and Manariotis, I.D. (2020). "Lipid conversion of *Scenedesmus rubescens* biomass into biodiesel using biochar catalysts from malt spent rootlets". *Journal of the Chemical Technology and Biotechnology*, 95, 2421-2429, <https://doi.org/10.1002/jctb.6424>
- A46 Grilla, E., Vakros, J. Konstantinou, I. Manariotis, I.D. and Mantzavinos, D. (2020). "Activation of Persulfate by Biochar from Malt Spent Rootlets for the Degradation of Trimethoprim in the Presence of Inorganic Ions." *Journal of Chemical Technology and Biotechnology*, 95, 2348-2358, DOI 10.1002/jctb.6513
- A45 Paschalidou, P., Paschalidis, I., Manariotis, I.D., and Karapanagioti, H.K. (2020). "Hyper sorption capacity of raw and oxidized biochars from various feedstocks for U(VI)." *Environmental Chemical Engineering Journal*, 8(4), 1-6, <https://doi.org/10.1016/j.jece.2020.103932>
- A44 Tsouloufa, A., Dailianis, S., Karapanagioti, H.K., Manariotis, I.D. (2020). "Physicochemical and Toxicological Assay of Leachate from Malt Spent Rootlets Biochar". *Bulletin of Environmental Contamination and Toxicology*, 104, 634-641. <https://doi.org/10.1007/s00128-020-02839-4>
- A43 Anastopoulos, I., Pashalidis, I., Orfanos, A.G., Manariotis, I.D., Tatarchuk, T., Sellaoui, L., Bonilla-Petriciolet, A., Mittal, A. and Núñez-Delgado, A. (2020). "Removal of caffeine, nicotine and amoxicillin from (waste)waters by various adsorbents. A review." *Journal of Environmental Management*, 261, Article number 110236, 1-9. <https://doi.org/10.1016/j.jenvman.2020.110236>

- A42 Tsavatopoulou, V.D., Aravantinou, A.F., and Manariotis, I.D. (2019). "Biofuel conversion of *Chlorococcum sp.* and *Scenedesmus sp.* biomass by one and two-step transesterification." Biomass Conversion and Biorefinery" (Online first) <https://doi.org/10.1007/s13399-019-00541-y>
- 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>
- 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>.
- 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.
- 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>
- 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.
- 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
- 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.
- 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.
- 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.
- 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
- 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
- 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

- 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](https://doi.org/10.1007/s10811-015-0662-x)
- 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>
- 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>
- 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](https://doi.org/10.1021/acs.iecr.5b02698)
- 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.
- 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>
- A22 Leftheriotis, G., Liveri, M., Galanopoulou, M., Manariotis, I.D., and Yianoulis, P. (2014). "A Simple Method for the Fabrication of WO₃ Films with Electrochromic and Photo Catalytic Properties". *Thin Solid Films*, 573, 6-13. <http://dx.doi.org/10.1016/j.tsf.2014.10.087>
- 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>
- 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](https://doi.org/10.1007/s11270-013-1805-9)
- 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.
- 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>
- 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>
- 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>
- 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>

- 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](https://doi.org/10.1007/s11270-011-0956-9)
- 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](https://doi.org/10.1016/j.watres.2011.02.009), 2011.
- 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.
- 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)
- 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).
- A9 Manariotis, I.D. and Grigoropoulos, S.G. (2008). "Restart of Anaerobic Filters Treating Low-Strength Wastewater." *Bioresource Technology*, 99 (9), 3759-3589. doi: [1016/j.biortech.2007.07.048](https://doi.org/10.1016/j.biortech.2007.07.048).
- 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).
- 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)).
- 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).
- 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).
- 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).
- 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).
- 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).
- 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).

PUBLICATIONS IN CONFERENCE PROCEEDINGS:

- B50 Grilla, E., Vakros, J., Manariotis, I.D. and Mantzavinos, D. (2020). "Biochar-Activated Persulfate for the Degradation of Trimethoprim." *Protection and Restoration of the Environment XV*, Book of Proceedings, ISBN 978-618-82337-2-0 edited by P.C. Yannopoulos et al., Patras, Greece, 2020, pp. 775–778.
- B49 Tsavatopolou, V., Aravantinou, A.F. and Manariotis, I.D. (2020). "Wastewater Treatment by Algal Biofilm Reactors for Nutrient Removal and Resource Recovery." *Protection and Restoration of the Environment XV*, Book of Proceedings, ISBN 978-618-82337-2-0 edited by P.C. Yannopoulos et al., Patras, Greece, 2020, pp. 761–765.
- B48 Angeli, M.S. and Manariotis, I.D. (2020). "Treatment of Municipal Wastewater in Attached Microalgae Reactors." *Protection and Restoration of the Environment XV*, Book of Proceedings, ISBN 978-618-82337-2-0 edited by P.C. Yannopoulos et al., Patras, Greece, 2020, pp. 531–538.
- B47 Biliari, S.E. and Manariotis, I.D. (2020). "Cultivation of *Chlorella Vulgaris* in Saline Synthetic Medium." *Protection and Restoration of the Environment XV*, Book of Proceedings, ISBN 978-618-82337-2-0 edited by P.C. Yannopoulos et al., Patras, Greece, 2020, pp. 333-337.
- B46 Manariotis, I.D., Kemmou, L., Marioglou, E., Frontistis, Z., Vakros, J. and Mantzavinos, D. (2020). "Activation of Persulfate by Different Biochars for the Deegradation of Sulfamethoxazole." EGU, European Geoscience Union General Assembly 2020, Online May 4-8, Vienna, PICO SSS7.5, EGU2020-13786, 2020. <https://doi.org/10.5194/egusphere-egu2020-13786>
- B45 Tsavatopoulou, V., Aravantinou, A., Vakros, J. and Manariotis, I.D. (2020). "Biochar from Different Feedstocks as Catalyst for the Conversion of Algal Lipid into Biodiesel." EGU, European Geoscience Union General Assembly 2020, Online May 4-8, Vienna, PICO SSS7.5, EGU2020-19912, 2020. <https://doi.org/10.5194/egusphere-egu2020-19912>
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- B43 Karapanagioti, H.K., Tzachristas, Tzepkini, V. and Manariotis, I.D. (2019). "Removal of Chloroform from Water and Wastewater Using Various Sorbents." EGU, European Geoscience Union General Assembly 2019, April 7-12, Vienna, PICO SSS8.4, Vol. 21, EGU2019-8532-1, 2019.
- B42 Manariotis, I.D., Fakas, D., Tzanakis, N. and Karapanagioti, H.K. (2019). "Magnetic Biochar from Different Feedstocks for the Removal of Chromium (VI) from Aqueous Solutions." EGU, European Geoscience Union General Assembly 2019, April 7-12, Vienna, PICO SSS8.4, Vol. 21, EGU2019-12480, 2019.
- B41 Tsavatopoulou, V., Vakros, J. and Manariotis, I.D. (2019). "Biochar as Catalyst for Conversion of Algal Lipid into Biodiesel." EGU, European Geoscience Union General Assembly 2019, April 7-12, Vienna, PICO SSS8.4, Vol. 21, EGU2019-10553, 2019.
- B40 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.
- B39 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.
- B38 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.

- B37 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.
- B36 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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CONFERENCE POSTER PRESENTATIONS:

- C36 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.*
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- 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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- 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.
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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:

- E11 2020-2021, Project coordinator, "Development of a Novel Attached Biomass Photobioreactor for Wastewater Treatment and Biomass Production". Project No. MIS5047157. Greece and the European Union (European Social Fund-ESF) through the Operational Program "Human Resources Development, Education and Lifelong Learning 2014-2020". Budget 41.542 €. Department of Civil Engineering, University of Patras, Patras, Greece.
- 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 CO₂ 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 Bocolloids 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:

Styliani Biliani, 2019-present
Vasilliki Tsavatopoulou, 2017-present
Andriana F. Aravantinou, 2011-2018

M.S. Students (Thesis option):

Georgios Karageorgos, 2018-present
Styliani Mpiliani, 2019
Savvas Perakis, 2019
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 | Styliani Drakopoulou, 2014 |
| Demetrios Fakas, 2018 | Anastasia Frementiti, 2014 |
| Savvas Perakis, 2016 | Fytoula Andreou, 2014 |
| Marianthi Ageli, 2016 | Maria Eirini Papanicolopoulou, 2014 |
| Eleni Dermati, 2015 | Antonios Mannes, 2014 |
| Christos Kolotouros, 2015 | Mena Mastoraki, 2013 |
| Manolis Manoussakis, 2015 | Ioannis Zaharis, 2013 |
| Eirini Mparkonikou, 2015 | Athanassios Sevastopoulos, 2011 |
| Alexios Orfanos, 2015 | Konstantinos Katsaros, 2011 |
| Charoula Kamenidou, 2015 | Theoni-Maria Massara, 2011 |
| Demetrios Vassilopoulos, 2015 | |

SPECIAL ISSUES ORGANIZER:

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

CONFERENCES: Member of Organising and Scientific Committees

- Convener, Presenting Interactive Content (virtual PICO), SSS7.8 "Novel Sorbents Materials and Humid Substances for Environmental Remediation", vPICO Session, European Geophysical Union General Assembly 2021, vEGU21 Gather Online: , April 19-30 2021.
- Member of the Organising and Scientific Committee, e-conference Protection and Restoration of the Environment XV, 2020, Greece.
- Convener, Presenting Interactive Content (PICO), SSS7.5 "Novel Sorbents Materials for Environmental Remediation", PICO Session, European Geophysical Union General Assembly 2020 Online, May 4-8, 2020, Vienna, Austria.
- 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, "5th 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", 2nd 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*
- *Applied Sciences*
- *Bulletin of Environmental Contamination and Toxicology*
- *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*
- *Biomass Conversion and Biorefinery*
- *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*
- *International Journal of Phytoremediation*
- *Industrial & Engineering Chemistry Research*
- *Journal of Applied Phycology*
- *Journal of Applied Phycology*
- *Journal of Chemical Technology Biotechnology*
- *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*
- *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.*
- *2014-2015, 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
 Modeling 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)