

GEORGIOS D. GIKAS

CURRICULUM VITAE

1. PERSONAL INFORMATION

Surname : Gikas
Name : Georgios
Current work address : Department of Environmental Engineering,
School of Engineering
Democritus University of Thrace
67100 Xanthi, Greece
Tel/Fax : 25410 79381, 25410 79393
E-mail : ggkikas@env.duth.gr

2. EDUCATION

2.1. Evidence of basic degrees or diplomas:

- a) **B.Sc.:** Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, 1979.
- b) **Diploma:** Department of Civil Engineering, Democritus University of Thrace, Xanthi, Greece, 1996 (5-Year Curriculum).

2.2. Graduate degrees

- a) **Ph.D.:** Department of Civil Engineering, Democritus University of Thrace, Xanthi, Greece, May 2002.
- b) **Postdoctoral:** Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece, May 2004.

2.3 Continuing education

- European Diploma in Computer Training (ECDL). Organization: Greek Association of Science Computer.
- National Certificate of knowledge of computing. Organization: Ministry of Education.

3. WORK AND RESEARCH EXPERIENCE

- **July 2022 – Present:** Professor, Department of Environmental Engineering, School of Engineering, Democritus University of Thrace. Scientific field: “Environmental Management and Modeling of Rivers, Lakes and Wetlands”.
- **August 2018 – June 2022:** Associate Professor, Department of Environmental Engineering, School of Engineering, Democritus University of Thrace. Scientific field: “Environmental Management and Modeling of Rivers, Lakes and Wetlands”.
- **August 2013 – August 2018:** Assistant Professor, Department of Environmental Engineering, School of Engineering, Democritus University of Thrace. Scientific field: “Environmental Management and Modeling of Rivers, Lakes and Wetlands”.
- **January 2009 – July 2013:** Lecturer, Department of Environmental Engineering, School of Engineering, Democritus University of Thrace. Scientific field: “Environmental Management and Modeling of Rivers and Lakes”.
- **September 2002 – January 2009:** Lecturer (Contract Presidential Decree 407/80), Department of Environmental Engineering, School of Engineering, Democritus University of Thrace.
- **September 2004 – December 2009:** Director, Second Chance School of Xanthi.

- **September 2002 – August 2004:** Assistant Director, junior High School.
- **September 1988 – August 2002:** Teacher, Secondary Education.
- **July 1981 - August 1988:** Head of production and quality control in food industry.

4. TEACHING EXPERIENCE

4.1 Undergraduate curriculum

Lecturing in the Department of Environmental Engineering, Democritus University of Thrace the following courses:

1. Introduction to the science of environmental engineering, 2002-2012.
2. Ecological engineering and technology I (Management of runoff, pollutant and sediments), 2011, 2013-2022.
5. Ecological engineering and technology II (Natural Methods of Wastewater Treatment), 2011-2022.
3. Geodesy, 2011-2022.
4. Environmental management of internal and coastal ecosystems I, 2006-2016.
5. Ecological engineering and technology II (Natural Methods of Wastewater Treatment, laboratory section), 2008-2022.
6. Engineering hydrology, 2009-2011, 2020-2021.
7. Technology of measurements, 2009-2015.
8. Aquatic chemistry (laboratory section), 2008-2018.
9. Instrument analysis (laboratory section), 2009-2013.
10. Analytical chemistry (laboratory section), 2014-2018.
11. Applied Hydraulics (laboratory section), 2010-2014.
12. Environmental management of internal and coastal systems, 2016-2022

4.2 Postgraduate curriculum

Lecturing in the Department of Environmental Engineering, Democritus University of Thrace. Course Title:

1. Agricultural pollution – Models and management, 2009-2017.
2. Aquatic chemistry, 2010-2017.
3. Ecological engineering and technology, 2013-2018.
4. Environmental chemistry, 2017.
5. Ecological engineering and technology - Ecohydrology, 2018-2022.

Lecturing in the Department of Civil Engineering, Democritus University of Thrace Course Title:

1. Natural systems, 2011-2015.

Participation in teaching the following courses:

1. Management and modeling of environmental systems, Department of Civil Engineering, Democritus University of Thrace, 2003-2012.
2. Physical, chemical and biochemical water processes (laboratory section), Department of Civil Engineering, Democritus University of Thrace, 2004-2006.

4.3 Supervision of B.Sc, M.Sc. and Ph.D. theses

Supervision of B.Sc. theses: 39
 Supervision of M.Sc. theses: 21
 Supervision of Ph.D. theses: 1
 Examiner of Ph.D. theses: 11

5. PARTICIPATION IN RESEARCH PROJECTS

1. Participation in the Program “PYTHAGORAS II” (team member). Topic: Study of existing constructed wetlands facilities for wastewater treatment. Scientific director: Professor V.A. Tsihrintzis.
2. Participation in the Program “Improving environmental conditions in the sewers of N. Ikismos, Korestia municipality, district of Kastoria” (team member). Scientific director: Professor V.A. Tsihrintzis.
3. Program “MEDOCC–HYDRANET, INTERREG IIIB” (team member). Research title: “Study of environmental projects and design of constructed wetlands unit”.
4. Participation in the Program “INTERREG IIIA – Pilot system for monitoring transboundary watershed of river Nestos” (team member). Scientific director: Professor V.A. Tsihrintzis.
5. Participation in the research project titled: “Phosphorus and Nitrogen release conditions of eutrophic marine sediments”.
6. Participation in the research project titled: “Integrated management of sludge municipal wastewater treatment plant and wastewater with natural systems” for the implementation of the research project titled: “Activated sludge treatment using subsurface flow constructed wetlands”.
7. Participation in the research project titled: “FIGARO: Flexible and Precise Irrigation Platform to Improve Farm Scale Water Productivity”. Funding: EE 7th Framework Program.
8. Participation in the research project titled: “WASTEnet – A Black Sea Network Promoting Natural Systems for the Integrated Water and Wastewater Management at Drainage Basin Scale”. Funding: Joint Operational Program “BLACK SEA 2007-2013”.
9. Participation in the research project titled: “MARE NOSTRUM: Mitigate implementation gaps in integrated coastal zone management by facilitating cross-border cooperation and the removal of legal and institutional obstacles in the Mediterranean basin”.

6. SCIENTIFIC PUBLICATIONS AND PRESENTATIONS

6.1. Research Theses

1. **Gikas G.D.** (1996). *Operation of central heating in Thrace. (Λειτουργία Κεντρικών Θερμάνσεων στη Θράκη)*. Thesis, Department of Civil Engineering, Democritus University of Thrace, Xanthi, Greece, 153p. (in Greek).
2. **Gikas G.D.** (2002). *Study of the Aquatic Ecosystem of Vistonis*, Doctoral Dissertation, Department of Civil Engineering, Democritus University of Thrace, Xanthi, Greece, 454p. (in Greek).
3. **Gikas G.D.** (2007). *Study of existing constructed wetlands facilities for wastewater treatment (Μελέτη Λειτουργουσών Εγκαταστάσεων Τεχνητών Υγροβιοτόπων για την Επεξεργασία Υγρών Αποβλήτων)*. Postdoctoral thesis, Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece (in Greek).

6.2. Book Chapters

1. Akrotos C.S., Melidis P., Stefanakis A., **Gikas G.D.** and Tsihrintzis V.A., (2008). Dewatering and composting sludge of biological treatment facilities in vertical flow constructed wetlands. In “Management of biosolids to focus on National and international law”. Editorial: V.A. Tsihrintzis, P. Gikas and A. Angelakis. Publications: Union of Municipal Water Supply and Sewerage, pp. 77-96 (in Greek).

6.3. Published refereed journals

1. **Gikas G.D.**, Economopoulos A. (1998). Operation of space heating boiler systems in Thrace. *Technika Chronika Journal TCG*, IV(1), pp. 43-54 (in Greek).
2. **Gikas G.D.**, Yiannakopoulou T. and Tsihrintzis V.A. (2006). Modeling of non-point source pollution in a Mediterranean drainage basin. *Environmental Modeling and Assessment*, 11, pp. 219-233. (I.F. 2011: 0.971)
3. **Gikas G.D.**, Yiannakopoulou T. and Tsihrintzis V.A. (2006). Water quality trends in a lagoon impacted by non-point source pollution after implementation of protective measures, *Hydrobiologia*, 563, pp. 385-406. (I.F. 2011: 1.784)
4. Markou D.A., Sylaios G.K., **Gikas G.D.**, Tsihrintzis V.A. and Haralambidou K. (2006). Assessment of bottom sediment contribution to lagoon eutrophication, *Fresenius Environmental Bulletin*, 15(9b), pp.1168-1173. (I.F. 2011: 0.716)
5. Markou D.A., Sylaios G.K., Tsihrintzis V.A., **Gikas G.D.** and Haralambidou K. (2007). Water quality of Vistonis Lagoon, Northern Greece: seasonal variation and impact of bottom sediments. *Desalination* 210, pp. 83-97. (I.F. 2011: 2.509, 5-Year: 2.403)
6. **Gikas G.D.**, Akratos C.S. and Tsihrintzis V.A. (2007). Performance monitoring of a vertical flow constructed wetland treating municipal wastewater. *Global NEST Journal* 9(3), pp. 277-285. (I.F. 2011: 0.536)
7. Tsihrintzis V.A., Akratos C.S., **Gikas G.D.**, Karamouzis D. and Angelakis A.N. (2007). Performance and cost comparison of a FWS and a VSF constructed wetland system, *Environmental Technology*, 28(6), pp. 621-628. (I.F. 2011: 1.406)
8. **Gikas G.D.**, Tsihrintzis V.A., Akratos C.S. and Haralambidis G. (2009). Water quality trends in Polyphytos reservoir, Aliakmon river, Greece. *Environmental Monitoring and Assessment*, 149, pp. 163-181, DOI 10.1007/s10661-008-0191-z. (I.F. 2011: 1.400)
9. **Gikas G.D.**, Yiannakopoulou T. and Tsihrintzis V.A. (2009). Hydrodynamic and nutrient modeling in a Mediterranean coastal lagoon, *Journal of Environment Science and Health Part A*, 44(13), pp. 1400-1423. DOI: 10.1080/10934520903217336. (I.F. 2011: 1.190, 5-Year: 1.344)
10. Stefanakis A.I., Akratos C.S., **Gikas G.D.** and Tsihrintzis V.A. (2009). Effluent quality improvement of two pilot-scale horizontal subsurface flow constructed wetlands using natural zeolite (clinoptilolite), *Microporous and Mesoporous Materials*, 124, pp. 131-143. (I.F. 2011: 3.285, 5-Year: 3.254)
11. Pisinaras V., Petalas C., **Gikas G.D.**, Gemitzi A. and Tsihrintzis V.A. (2010). Hydrological and water quality modeling in a medium-sized basin using the Soil and Water Assessment Tool (SWAT), *Desalination*, 250, pp 274-286. DOI:10.1016 /j.desal.2009.09.044. (I.F. 2011: 2.509, 5-Year: 2.403)
12. Melidis P., **Gikas G.D.**, Akratos C. and Tsihrintzis V.A. (2010). Dewatering of primary settled urban sludge in a vertical flow wetland, *Desalination*, 250, pp 395-398. DOI: 10.1016/j.desal.2009.09.063. (I.F. 2011: 2.509, 5-Year: 2.403)
13. Tsihrintzis V.A., **Gikas G.D.** (2010). Constructed wetlands for wastewater and activated sludge treatment in North Greece: a Review, *Water Science and Technology*, 61(10), pp. 2653-2672. (I.F. 2011: 1.122)
14. **Gikas G.D.** and Tsihrintzis V.A. (2010). On-site treatment of domestic wastewater using a small-scale horizontal subsurface flow constructed wetland, *Water Science and Technology*, 62(3), pp. 603-614. (I.F. 2011: 1.122)
15. Kotti I.P., **Gikas G.D.** and Tsihrintzis V.A. (2010). Effect of operational and design parameters on removal efficiency of pilot-scale FWS constructed wetlands and comparison with HSF systems, *Ecological Engineering*, 36(7), pp. 862-875. DOI:10.1016/j.ecoleng.2010.03.002. (I.F. 2011: 3.106; 5-Year=3.415)
16. Boskidis I., **Gikas G.D.**, Pisinaras V. and Tsihrintzis V.A. (2010). Spatial and temporal changes of water quality, and SWAT modeling of Vosvozis river basin, North Greece, *Journal of Environment Science and Health Part A*, 45(11), pp. 1421-1440. DOI:10.1080/10934529.2010.500936. (I.F. 2011: 1.190, 5-Year: 1.344)
17. **Gikas G.D.**, Tsihrintzis V.A., and Akratos C.S. (2011). Performance and modeling of a vertical flow constructed wetland – maturation pond system, *Journal of Environmental Science and*

- Health Part A*, 46(7), pp. 692-708. DOI: 10.1080/10934529.2011.571579. (I.F. 2011: 1.190, 5-Year: 1.344)
18. Boskidis I., **Gikas G.D.**, Sylaios G. and Tsihrintzis V.A. (2011). Water quantity and quality assessment of lower Nestos river, Greece, *Journal of Environment Science and Health Part A*, 46(10), pp. 1050-1067. <http://dx.doi.org/10.1080/10934529.2011.590381>. (I.F. 2011: 1.190, 5-Year: 1.344)
 19. Papaevangelou V.A., **Gikas G.D.** and Tsihrintzis V.A. (2012). Evaluation of evapotranspiration in small on-site HSF constructed wetlands, *Journal of Environmental Science and Health Part A: Toxic/Hazardous Substances and Environmental Engineering*, 47(5), pp. 766-785. <http://dx.doi.org/10.1080/10934529.2012.660111>. (I.F. 2011: 1.190, 5-Year: 1.344)
 20. Boskidis I., **Gikas G.D.**, Sylaios G.K. and Tsihrintzis V.A. (2012). Hydrologic and water quality modeling of lower Nestos River basin, *Water Resources Management*, 26, pp. 3023–3051. DOI 10.1007/s11269-012-0064-7. (I.F. 2011: 2.054)
 21. **Gikas G.D.** and Tsihrintzis V.A. (2012). A small-size vertical flow constructed wetland for on-site treatment of household wastewater, *Ecological Engineering*, 44, pp. 337– 343. <http://dx.doi.org/10.1016/j.ecoleng.2012.04.016>. (I.F. 2011: 3.106, 5-Year: 3.415)
 22. **Gikas G.D.** and V.A. Tsihrintzis (2012) Assessment of water quality of first-flush roof runoff and harvested rainwater, *Journal of Hydrology*, 466-467, pp. 115-126. <http://dx.doi.org/10.1016/j.jhydrol.2012.08.020>. (I.F. 2011: 2.656, 5-Year: 3.271)
 23. Papaevangelou V.A., Tsihrintzis V.A. and **Gikas G.D.** (2012). Qualification of constructed wetland evapotranspiration using lysimeters. *Fresenius Environmental Bulletin*, 21(10A), pp. 3083-3093. (I.F. 2011: 0.716)
 24. **Gikas G.D.**, Dimou D. and Tsihrintzis V.A. (2013). River water quantity and quality monitoring in an agricultural basin in North Greece. *Fresenius Environmental Bulletin*, 22(7A), pp. 2006-2016. (I.F. 2011: 0.716)
 25. **Gikas G.D.** and Tsihrintzis V.A. (2014). Stabilization pond systems for wastewater treatment: Facility costs and environmental footprint assessment. *Global Nest Journal*, 16(2), pp. 375-385.
 26. Gkika D., **Gikas G.D.** and Tsihrintzis V.A. (2014). Construction and operation costs of constructed wetlands treating wastewater. *Water Science and Technology*, 70(5), pp. 803-810.
 27. **Gikas G.D.** (2014). Water Quality of Drainage Canals and Assessment of Nutrient Loads Using QUAL2Kw. *Environmental Processes*, 1, pp. 369-385. DOI 10.1007/s40710-014-0027-5.
 28. **Gikas G.D.** and Tsihrintzis V.A. (2014). Municipal Wastewater Treatment Using Constructed Wetlands. *Water Utility Journal*, 8, pp. 57-65.
 29. Gkika D., **Gikas G.D.** and Tsihrintzis V.A. (2015). Environmental footprint of constructed wetlands treating wastewater. *Journal of Environment Science and Health, Part A*, 50, pp. 1-8. DOI: 10.1080/10934529.2015.994970.
 30. **Gikas G.D.**, Tsihrintzis V.A., Sykas D. (2016). Effect of trees on the reduction of nutrient concentrations in the soils of cultivated areas. *Environmental Monitoring and Assessment*, 188(6), paper 327, pp. 1-19. (I.F. 2016: 1.686, Αναφορές: Scopus 0, Scholar 3)
 31. Papaevangelou V.A., **Gikas G.D.**, Tsihrintzis V.A., Antonopoulou M., Konstantinou I.K. (2016). Removal of Endocrine Disrupting Chemicals in HSF and VF Pilot-scale Constructed Wetlands. *Chemical Engineering Journal*, 294, pp. 146–156. (I.F. 2016: 6.216/6.159, Αναφορές: Scopus 14, Scholar 16)
 32. Papaevangelou V.A., **Gikas G.D.**, Tsihrintzis V.A., (2016). Effect of operational and design parameters on performance of pilot-scale horizontal subsurface flow constructed wetlands treating university campus wastewater. *Environmental Science and Pollution Research*, DOI 10.1007/s11356-016-7162-7. (I.F. 2016: 2.741, Αναφορές: Scopus 1, Scholar 3)
 33. Alexakis D., Tsihrintzis V.A., Tsakiris G., **Gikas G.D.** (2016). Suitability of water quality indices for application in lakes in the Mediterranean. *Water Resources Management*, 30, pp. 1621-1633. (I.F. 2016: 2.848, Αναφορές: Scopus 6, Scholar 11)
 34. Papaevangelou V.A., **Gikas G.D.**, Tsihrintzis V.A. (2016). Effect of operational and design parameters on performance of pilot-scale vertical flow constructed wetlands treating university campus wastewater. *Water Resources Management*, 30, pp. 5875-5899. DOI 10.1007/s11269-016-1484-6. (I.F. 2016: 2.848, Αναφορές: Scopus 3, Scholar 2)

35. Sylaios G., **Gikas G.D.**, Tsihrintzis V.A. (2016). Sustainable solutions to wastewater management: Maximizing the impact of territorial co-operation. *Environmental Processes*, 3, (Suppl. 1), S1-S3, Editorial. (Αναφορές: Scopus 1, Scholar 1)
36. Sylaios G., **Gikas G.D.**, Tsihrintzis V.A. (2016). Editorial. *Water Utility Journal*, 14, 3-4. http://www.ewra.net/wuj/issue_14.htm
37. Sylaios G., **Gikas G.D.**, Tsihrintzis V.A. (2016). Editorial, Special issue on WASTEnet international conference. *European Water*, 53, 3-4. http://www.ewra.net/ew/pdf/EW_2016_53_01.pdf
38. Papaevangelou V.A., **Gikas G.D.**, Vryzas Z., Tsihrintzis V.A. (2017). Treatment of agricultural equipment rinsing water containing a fungicide in pilot-scale horizontal subsurface flow constructed wetlands. *Ecological Engineering*, 101, pp. 193-200. (I.F. 2016: 2.914/3.422, Αναφορές: Scopus 2, Scholar 2)
39. Tsakmakis, I., Kokkos, N., Pinaras, V., (...) **Gikas G.D.**, (...), Battilani, A., Sylaios, G. (2017) Operational precise irrigation for cotton cultivation through the coupling of meteorological and crop growth models. *Water Resources Management*, 31(1), pp. 563-580. DOI 10.1007/s11269-016-1548-7. (I.F. 2016: 2.848, Αναφορές: Scopus 1, Scholar 1)
40. Papaevangelou V.A., **Gikas G.D.**, Tsihrintzis V.A. (2017). Chromium removal from wastewater using HSF and VF pilot-scale constructed wetlands: Overall performance, and fate and distribution of this element within the wetland environment. *Chemosphere*, 168, pp. 716-730. (I.F. 2016: 4.208/4.506, Αναφορές: Scopus 5, Scholar 6)
41. **Gikas G.D.**, Tsihrintzis V.A. (2017). Effect of first-flush device, roofing material, and antecedent dry days on water quality of harvested rainwater. *Environmental Science and Pollution Research*, 24, pp. 21997–22006. DOI 10.1007/s11356-017-9868-6. (I.F. 2016: 2.741)
42. **Gikas G.D.** (2017). Water quantity and hydrochemical quality monitoring of Laspias River, North Greece. *Journal of Environmental Science and Health, Part A*, 52(14), pp. 1312-1321. DOI: 10.1080/10934529.2017.1357408 (I.F. 2016: 1.425/1.455)
43. **Gikas G.D.**, Tsakmakis I.D., Tsihrintzis V.A. (2017). Hybrid natural systems for treatment of olive mill wastewater. *Journal of Chemical Technology and Biotechnology*, 93(3), pp. 800-809. DOI: 10.1002/jctb.5430. (I.F. 2016: 3.135)
44. **Gikas G.D.**, Papaevangelou V.A., Moutsopoulos K., Tsihrintzis V.A. (2017). Evaluation of clogging in HSF pilot-scale CWs using tracer experiments. *European Water*, 58, pp. 179-184.
45. **Gikas G.D.**, Pérez-Villanueva M., Tsioras M., Alexoudis C., Pérez-Rojas G., Masís-Mora M., Lizano-Fallas V., Rodríguez-Rodríguez C.E., Vryzas Z., Tsihrintzis V.A. (2018). Low-cost approaches for the removal of terbuthylazine from agricultural wastewater: Constructed wetlands and biopurification system. *Chemical Engineering Journal*, 335, pp. 647-656. (I.F. 2016: 6.216/6.159)
46. Zoidou M., Tsakmakis I.D., **Gikas G.D.**, Sylaios G. (2017). Water footprint for cotton irrigation scenarios utilizing CROPWAT and AquaCrop models. *European Water*, 59, pp. 285-290.
47. **Gikas G.D.**, Vryzas Z., Tsihrintzis V.A. (2018). S-metolachlor herbicide removal in pilot-scale horizontal subsurface flow constructed wetlands. *Chemical Engineering Journal*, <https://doi.10.1016/j.cej.2018.01.056> (in press) (I.F. 2016: 6.216/6.159)
48. Tsakmakis I.D., Zoidou M., **Gikas G.D.**, Sylaios G. (2018). Impact of irrigation technologies and strategies on cotton water footprint using AquaCrop and CROPWAT models. *Environmental Processes*, 5(1), pp. 181-199. <https://doi.org/10.1007/s40710-018-0289-4>
49. Zotou I., Tsihrintzis V.A., Gikas G.D. (2018). Comparative Assessment of Various Water Quality Indices (WQIs) in Polyphytos Reservoir-Aliakmon River, Greece. *Proceedings*, 2(11), 611. <https://doi.org/10.3390/proceedings2110611>
50. Tsakmakis I.D., Kokkos N.P., **Gikas G.D.**, Pinaras V., Hatzigiannakis E., Arampatzis G., Sylaios G.K. (2019). Evaluation of AquaCrop model simulations of cotton growth under deficit irrigation with an emphasis on root growth and water extraction patterns. *Agricultural Water Management*, 213, pp. 419-432.
51. Zotou I., Tsihrintzis V.A., **Gikas G.D.** (2019). Performance of Seven Water Quality Indices (WQIs) in a Mediterranean River. *Environmental Monitoring and Assessment*, 191, article 505, pp. 1-14. DOI: <https://doi.org/10.1007/s10661-019-7652-4>

52. Zotou I., Tsihrintzis V.A., **Gikas G.D.** (2020). Water quality evaluation of a lacustrine water body in the Mediterranean based on different water quality index (WQI) methodologies. *Journal of Environmental Science and Health, Part A*, 55(5), 537-548. DOI: <https://doi.org/10.1080/10934529.2019.1710956>
53. **Gikas G.D.**, Sylaios G.K., Tsihrintzis V.A., Konstantinou I.K., Albanis T., Boskidis I. (2020). Comparative evaluation of river chemical status based on WFD methodology and CCME water quality index. *Science of the Total Environment*, 745, 140849.
54. Keramea P., Spanoudaki K., Zodiatis G., **Gikas G.** and Sylaios G. (2021). Oil Spill Modeling: A Critical Review on Current Trends, Perspectives and Challenges. *Journal of Marine Science and Engineering*, 9, 181. DOI: <https://doi.org/10.3390/jmse9020181>
55. Tsakmakis I.D., **Gikas G.D.**, Sylaios G. (2021). Integration of Sentinel-derived NDVI to reduce uncertainties in the operational field monitoring of maize. *Agricultural Water Management*, 255, 106998. DOI: <https://doi.org/10.1016/j.agwat.2021.106998>
56. **Gikas G.D.**, Papaevangelou V.A., Tsihrintzis V.A., Antonopoulou M., Konstantinou I.K. (2021). Removal of Emerging Pollutants in Horizontal Subsurface Flow and Vertical Flow Pilot-Scale Constructed Wetlands. *Processes*, 9(12), 2200. DOI: <https://doi.org/10.3390/pr9122200>
57. Parlakidis P., Mavropoulos T., Vryzas Z., **Gikas G.D.** (2022). Fluopyram removal from agricultural equipment rinsing water using HSF pilot-scale constructed wetlands. *Environmental Science and Pollution Research*. DOI: <https://doi.org/10.1007/s11356-021-15373-5>
58. **Gikas G.D.**, Vryzas Z., Koshis Z. (2022). Experiments on fluometuron removal from simulated agricultural wastewater in porous media filters. *Environmental Processes*, 9(1), 1-19. DOI: <https://doi.org/10.1007/s40710-021-00549-5>
59. **Gikas G.D.**, Parlakidis P., Mavropoulos T., Vryzas Z. (2022). Particularities of fungicides and factors affecting their fate and removal efficacy: A review. *Sustainability*, 14(7), 4056. DOI: <https://doi.org/10.3390/su14074056>
60. Chamalidou E., Gazis A., **Gikas G.D.** (2022). Removal of polycyclic aromatic hydrocarbons from polluted water using constructed wetlands: a review. *International Journal on Engineering Technologies and Informatics*, 3(1), 1-5. DOI: 10.51626/ijeti.2022.03.00027
61. Keramea P., Kokkos N., **Gikas G.**, Sylaios G. (2022). Operational modeling of North Aegean oil spills forced by real-time met-ocean forecasts. *Journal of Marine Science and Engineering*, 10(3), 411. DOI: <https://doi.org/10.3390/jmse10030411>
62. **Gikas G.D.**, Vryzas Z., Karametos I., Tsihrintzis V.A. (2022). Pyraclostrobin removal in pilot-scale horizontal subsurface flow constructed wetlands and in porous media filters. *Processes*, 10(2), 414. DOI: <https://doi.org/10.3390/pr10020414>
63. Parlakidis P., Rodriguez M.S., **Gikas G.D.**, Alexoudis C., Perez-Rojas G., Perez-Villanueva M., ... Vryzas Z. (2022). Occurrence of Banned and Currently Used Herbicides, in Groundwater of Northern Greece: A Human Health Risk Assessment Approach. *International journal of environmental research and public health*, 19(14), 8877. DOI: <https://doi.org/10.3390/ijerph19148877>

6.4. Refereed Papers in Conference Proceedings

1. **G.D. Gikas**, I. Petropoulos (1993). A first approach to the air pollution of small Greek sites, In: *Proceedings of 3rd conference environmental science and technology* (Μια πρώτη προσέγγιση στην Ατμοσφαιρική Ρύπανση Ελληνικών Επαρχιακών Πόλεων). *Πρακτικά 3ου Συνεδρίου Περιβαλλοντικής Επιστήμης και Τεχνολογίας*, Molyvos Lesvos, Greece, pp. 482-490 (in Greek).
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62. Tsakmakis I.D., Panagopoulos S.G., **Gikas G.D.**, Sylaios G.K. (2019). Aerial spectral index analysis for differential management zone delineation in a maize field. In: Proceeding of 16th International Conference on Environmental Science and Technology (CEST 2019), 4 to 7 September 2019, Rhodes, Greece, CEST2019-00136.
63. Parlakidis P., Mavropoulos Th., **Gikas G.D.**, Vryzas Z. (2020). Removal of a fungicide/nematicide in pilot-scale horizontal subsurface flow constructed wetlands. In: Proceeding of Sixth International Symposium on Green Chemistry, Sustainable Development and Circular Economy, 20-23 September 2020, Thessaloniki, Greece.
64. **Gikas G.D.**, Parlakidis P., Mavropoulos T., Vryzas Z., (2021). Factors affecting fungicide removal efficacy from agricultural runoff by constructed wetlands: A commentary. In Proceeding of the 3rd Euro-Mediterranean Conference for Environmental Integration, 10-13 June 2021, Sousse, Tunisia.
65. Karyatis G., **Gikas G.D.**, (2021). Removal of pharmaceuticals from wastewaters in constructed wetlands: a review. In Proceedings of the Eighth International Conference on Environmental Management, Engineering, Planning & Economics, 20-24 July 2021, Thessaloniki, Greece.
66. Markou D., Margaritou I.E., **Gikas G.D.**, Sylaios G., Tsihrintzis V.A. (2021). Natural wastewater treatment systems in Greek communities: Mesoropi and Moustheni constructed wetlands plants. In Proceedings of the Eighth International Conference on Environmental Management, Engineering, Planning & Economics, 20-24 July 2021, Thessaloniki, Greece.
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6.5. Research and Technical Reports:

1. V.A Tsihrintzis, **G.D. Gikas**, C. Petalas and S. Skias (2005). Pilot application to address the disposal of urban wastewater of Neos Ikismos, Korestia municipality, Kastoria (Study).
2. **G.D. Gikas**, J. Papaspiros, C. Akrotos and V.A Tsihrintzis (2007). Study of existing constructed wetlands facilities for wastewater treatment. Program: PYTHAGORAS-II (in Greek).
3. **G.D. Gikas**, V.A Tsihrintzis and I. Kotti (2007). Natural Systems of Constructed Wetlands for Wastewater Treatment of rural houses. Program: «MEDOCC – HYDRANET, INTERREG IIIB» title: “ Study of environmental projects and design of constructed wetlands unit” (in Greek).

7. RELATED SCIENTIFIC AND RESEARCH ACTIVITIES

7.1. Reviewer of papers in international journals and conferences

1. Journal of Environmental Management
2. Fresenius Environmental Bulletin
3. Water Science and Technology
4. Desalination and Water Treatment
5. Ecological Engineering
6. Environmental Processes
7. Sustainability of Water Quality and Ecology
8. Water Resources Management
9. Science of the Total Environment
10. European Water
11. Sustainable Cities and Society
12. Hydrology
13. Hydrological Processes
14. Engineering Science and Technology, an International Journal
15. Water
16. Processes
17. Environmental Technology & Innovation
18. International Journal of Environmental Research
19. Journal of the Taiwan Institute of Chemical Engineers
20. Agricultural Water Management
21. Resources, Conservation & Recycling
22. Journal of Environmental Science and Health, Part A
23. Heliyon
24. Environmental Pollution
25. Marine Pollution Bulletin
26. Protection and Restoration of the Environment XI
27. Wastenet 2015