

Curriculum Vitae



PERSONAL INFORMATION

Name/Surname: Ifigenia Kagalou
Position: Professor, Division of Hydraulics, Department of Civil Engineering, School of Engineering Democritus University of Thrace
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EDUCATION

Higher education

1984: B.Sc. Biology, University of Thessaloniki
1990: PhD in Water resources ecology, University of Ioannina, Greece

Post Doctoral studies

Clyde River Purification Board - University of Glasgow, England
Centre of Water Research, University of Western Australia, Perth, Australia

PROFESSIONAL & ACADEMIC EXPERIENCE

1994: Municipal Enterprise of water & sewages, Ioannina, Greece
1997: Professor, Technological Educational Institute of Epirus, Greece (Ecology of Aquatic Ecosystems)
2001-2006: Contracted Scientist, Department of Biological Applications & Technologies, University of Ioannina (Freshwater Ecology)
2010: Assistant Professor, Department of Ichthyology & Aquatic Environment, University of Thessaly (Hydrology, Freshwater Ecology)
2013: Professor, Department of Civil Engineering, School of Engineering, Democritus University of Thrace, Greece (Ecology)

COURSES TAUGHT

Freshwater ecology(undergraduate/postgraduate)
Limnology (undergraduate)
Hydrology(undergraduate)
Ecology(undergraduate)
Water Quality (undergraduate)
Physical-Chemical- Biochemical processes in hydroecosystems (post graduate)
Water Resources Management (post graduate)
Management and restoration technology in hydroecosystems (post graduate)
Environmental & Water Policy (post graduate)

RESEARCH INTERESTS

More specifically, my research interests are focused on aquatic ecology and management of water resources, the aquatic systems responses to eutrophication, management and conservation of lakes and wetlands, river eco-hydrology and restoration strategies of

freshwater ecosystems. The structure and function of shallow Mediterranean lakes also included in my research area. Last years, research activities focus to understand the consequences of environmental dynamics for aquatic communities and ecosystem functioning at various temporal and spatial scales and furthermore how changes affect ecosystem structure and function. More recently, the implementation of the EU Water Framework Directive and the uncertainties concerning Greek/Mediterranean lakes are also included to research interests.

EVALUATION OF SCIENTIFIC ACTIVITY

Citations: 1297
RG 25,58
score:
h-index: 14,8

EXPERTISE POSITIONS

2001 - 2004: Chairman of the Management Authority of the protected Lake Pamvotis, Ioannina, Greece.

2010 - today: Chairman of the Management Body of the Ecodevelopment Area of Lake Karla-Thessaly, Greece.

2014 - today: Member of the National Committee on Water Framework Directive

SCIENTIFIC PUBLICATIONS

Journal publications (selected overall 53)

1. Latinopoulos D., Ntislidou Ch., **Kagalou I.**(2018). A multi-approach Lake Habitat Survey method for impact assessment in two heavily modified lakes: a case of two Northern Greek lakes. *Environ Monit. Assess.* 190-658 doi.org/10.1007/s10661-018-7045-0
2. Latinopoulos D., Sidiropoulos P., **Kagalou I.**(2018). Addressing gaps in environmental water policy issues across five Mediterranean freshwater protected areas. *Water* 10(12),1853.
3. Mavromati E.,**Kagalou I.**, Kemitzoglou D., Apostolakis A., Seferlis M., Tsiaousi V.(2018).Relationships among land use patterns, Hydromorphological features and Physico chemical parameters of surface waters: WFD Lake monitoring in Greece. *Environ. Processes*, Volume 5 (1):139–151
4. Bobori D., Ntislidou Ch.,Petriki O., Chronis I., **Kagalou I.**, Lazaridou M.(2018). Macroinvertebrate and fish communities in the watershed in a re-constructed Mediterranean water body: link to ecological potential. *Environ Monit Assess.*190:106. doi.org/10.1007/s10661-018-6484-y
5. Sidiropoulos P., Chamoglou M., **Kagalou I.** (2017) Combining conflicting, economic, and environmental pressures: Evaluation of the restored Lake Karla (Thessaly-Greece). *Ecology and Hydrobiology*, 17: 177-189. DOI: 10.1016/j.ecohyd.2017.04.002
6. Gkelis S., Panou M., Chronis I., [...], **Kagalou I.**, Lazaridou M. (2017). Monitoring a newly re-born patient: water quality and cyanotoxin occurrence in a reconstructed shallow Mediterranean lake. *Advances in Oceanography and Limnology*, DOI: 10.4081/aiol.2017.6350
7. Theologou I., **Kagalou I.**, Papadopoulou M., Karantzas K. (2016). Multitemporal Mapping of Chlorophyll- α in Lake Karla from High Resolution Multispectral Satellite data. *Environmental Processes*, 3: 681-691. DOI: 10.1007/s40710-016-0163-1
8. Latinopoulos D., Ntislidou C., **Kagalou I.** (2016). Multipurpose Plans for the sustainability of Greek Lakes: Emphasis on multiple stressors. *Environmental Processes*, 3: 589-602. DOI: 10.1007/s40710-016-0152-4
9. Chamoglou M., Papadimitriou T., **Kagalou I.** (2014). Key-Descriptors for the Functioning of a Mediterranean Reservoir: The Case of the New Lake Karla-Greece. *Environmental Processes*, 1: 127-135. DOI: 10.1007/s40710-014-0011-0
10. **Kagalou I.**, Psilovikos A. (2014). Assessment of the typology and trophic status of two Mediterranean lake ecosystems in Northwestern Greece. *Water Resources*, 41: 335-343. DOI: 10.1134/S0097807814030105

11. Anastasiadou C., Gkenas C., **Kagalou I.**, Leonardos I.D. (2014). Shrimps of an ancient Balkan lake: Bionomy and conservation. *Biologia*, 69: 895-904. DOI: 10.2478/s11756-014-0388-2
12. Berillis P., Papadimitriou T., Petridou E., Kormas K., **Kagalou I.** (2014). Brain and liver histopathological examination of carassius gibelio from a newly reconstructed lake with toxic cyanobacteria. *Turkish Journal of Fisheries and Aquatic Sciences*, 14: 213-219. DOI: 10.4194/1303-2712-v14_1_23
13. Alexakis D., **Kagalou I.**, Tsakiris G.(2013). Assessment of pressures and impacts of surface water bodies in the Mediterranean: case study Pamvotis Lake- Greece. *Environmental Earth Sciences*, 70: 687-698. DOI: 10.1007/s12665-012-2152-7
14. Papadimitriou Th., Katsiapi M., Kormas K., Moustaka-Gouni M., **Kagalou I.** (2013). Artificially born “killer” lake: Phytoplankton based water quality and microcystin affected fish in a reconstructed lake. *Science of the Total Environment*, 452-453:116-124. DOI: 10.1016/j.scitotenv.2013.02.035
15. Mitsoura A., **Kagalou I.**, Papaioannou N., Berillis P., Mente E., Papadimitriou T. (2013). The presence of microcystins in fish Cyprinus carpio tissues: a histopathological study. *International Aquatic Research*, 5: 16. DOI: 10.1186/2008-6970-5-8
16. Sidiropoulos P., Papadimitriou T., Stabouli Z., Loukas A., Mylopoulos N., Kagalou I. (2012) Past, present and future concepts for conservation of the re-constructed Lake Karla (Thessaly Greece). *Fresenius Environmental Bulletin*, 21: 3027-3034.
17. Papadimitriou, T., **Kagalou, I.**, & Leonardos, I.D. (2012). Seasonally accumulation of microcystins in the various tissues of an endemic and protected fish species (rutilus panosi) with different sizes. *Clean- Soil, Air, Water*, 40: 402-407. DOI: 10.1002/clen.201000242
18. Papadimitriou, T., Armeni, E., Stalikas, C. D., **Kagalou, I.**, & Leonardos, D.I. (2012). Detection of microcystins in Pamvotis lake water and assessment of cyanobacterial bloom toxicity. *Environmental Monitoring and Assessment*, 184: 3043-3052. DOI: 10.1007/s10661-011-2169-5
19. **Kagalou I.**, Leonardos I., Anastasiadou C., Neofytou C. (2012). The DPSIR Approach for an Integrated River Management Framework. A Preliminary Application on a Mediterranean Site (Kalamas River -NW Greece). *Water Resources Management*, 26: 1677-1692. DOI: 10.1007/s11269-012-9980-9
20. Moutou, K. A., Tsikogias, S., Papadimitriou, T., **Kagalou, I.** (2012). Oxidative stress in cyprinus carpio to analyze microcystin impact in eutrophic shallow lakes: A preliminary study. *Journal of Environmental Monitoring*, 14: 2195-2203 DOI: 10.1039/c2em30129f
21. Papadimitriou T., **Kagalou I.**, Stalikas C., Pilidis G., Leonardos D.I. (2012). Assessment of microcystin distribution and biomagnification in tissues of aquatic food web compartments from a shallow lake and evaluation of potential risks to public health. *Ecotoxicology*, 21: 1155-1166. DOI: 10.1007/s10646-012-0870-y
22. Papadimitriou T., Leonardos I.D., **Kagalou I.** (2011). Environmental factors and phycocyanin associated with microcystin variation in Lake Pamvotis (Greece). *European Journal of Phycology*, 46: 132.
23. Papadimitriou Th., Stabouli Z., and **Kagalou I.** (2011). Preliminary results on the cyanotoxicity of the “new” lake Karla (Thessaly-Greece). Full paper, Proceed. Of the 12 Intern. Confer. on Environmental science & technology, pp.1416-1422
24. Alexakis D., **Kagalou I.**, Tsakiris G. (2011). The application of the DPSIR approach on surface water bodies. Full paper, Proceed. of VIEWRA International Symposium , pp.1-13
25. **Kagalou I.** (2010). Classification and Management issues of Greek lakes under the European Framework Directive: a DPSIR approach. *Journal of Environmental Monitoring*, 12: 2207-2215. DOI: 10.1039/c0em00212g
26. **Kagalou I.**, Kosiori A., Leonardos I.D. (2010). Assessing the zooplankton community and environmental factors in a Mediterranean wetland. *Environmental Monitoring and Assessment*, 170: 445-455. DOI: 10.1007/s10661-009-1245-6
27. Papadimitriou T., **Kagalou I.**, Bacopoulos V., Leonardos I.D. (2010). Accumulation of microcystins in water and fish tissues: An estimation of risks associated with microcystins in most of the Greek lakes. *Environmental Toxicology*, 25: 418-427. DOI: 10.1002/tox.20513

28. Papastergiadou E., **Kagalou I.**, Stefanidis K., Retalis A., Leonardos D.I. (2010). Effects of Anthropogenic Influences on the Trophic State, Land Uses and Aquatic Vegetation in a Shallow Mediterranean Lake: Implications for Restoration. *Water Resources Management*, 24: 415-435. DOI: 10.1007/s11269-009-9453-y
29. **Kagalou I.**, Leonardos I.D. (2009). Typology, classification and management issues of Greek lakes: implication of the Water Framework Directive (2000/60/EC). *Environmental Monitoring and Assessment*, 150: 469-484. DOI: 10.1007/s10661-008-0245-2
30. **Kagalou I.** Papastergiadou E., Leonardos I. 2008. Long term changes on eutrophication process in a shallow Mediterranean lake ecosystem of W. Greece: response after the reduction of external load. *Journal of Environmental Management*. 87: 497–506. DOI: 10.1016/j.jenvman.2007.01.039
31. Leonardos D.I., **Kagalou I.**, Tsoumani M., Economidis P.S. (2008). Fish fauna in a Greek lake: biodiversity, introduced fish species over a 80-year period and their impacts on the ecosystem. *Ecology of Freshwater Fish*. 17: 165-173. DOI: 10.1111/j.1600-0633.2007.00268.x
32. **Kagalou I.**, Papadimitriou T., Bacopoulos V., Leonardos I.D. (2008). Assessment of microcystins in lake water and the omnivorous fish (*Carassius gibelio*, Bloch) in Lake Pamvotis (Greece) containing dense cyanobacterial bloom. *Environmental Monitoring and Assessment*, 137: 185-195. DOI: 10.1007/s10661-007-9739-6.
33. Beklioglu M., Romo S., **Kagalou I.**, Quintana X., Becares E. (2007). Shallow Mediterranean Lakes: Variation in the Theme. *Hydrobiologia*, 584: 317-326. DOI: 10.1007/s10750-007-0577-x
34. Kagalou I., Economidis G., Leonardos I.D., Papaloukas C. (2006). Assessment of a Mediterranean shallow lentic ecosystem (Lake Pamvotis, Greece) using benthic community diversity: Response to environmental parameters. *Limnologica*, 36: 269-278. DOI: 10.1016/j.limno.2006.08.002
35. Tsoumani M., Liasko R., Moutsaki P., **Kagalou I.**, Leonardos I.D. (2006). Length-weight relationships of an invasive cyprinid fish (*Carassius gibelio*) from 12 Greek lakes in relation to their trophic states. *Journal of Applied Ichthyology*, 22: 281-284. DOI: 10.1111/j.1439-0426.2006.00768.x
36. **Kagalou I.**, Papastergiadou, E., Beza, P., Giannouris, E. (2006). Assessment of the trophic state of Kalodiki wetland, Western Greece. *Fresenius Environmental Bulletin*, 15: 136-140.

Book Chapters publications

- **Kagalou I.**, Kormas K., Papadimitriou T., Katsiapi M., Genitsaris S., Moustaka-Gouni M. (2012). Occurrence, Monitoring and Risk Management of cyano-bacteria and cyanotoxins-Greece. In “Current approaches to cyanotoxin risk assessment, risk management and regulations in different countries”. Edited by Dr. Ingrid Chorus, Federal Environment Agency, Germany. ISSN 1862-4804.
- Τσιαούση Β., **Κάγκαλου Ιφ.** (2017). Νέα λίμνη Κάρλα: υποδέχεται νέα ζωή; Βιολογία Διατήρησης- Μια Εισαγωγή. R.B. Primack, Αριανούτσου Μ., Δημητρακόπουλος Π., University Studio Press, Θεσσαλονίκη 2017, ISBN 978-960-12-2331-5.
- Ellina G., **Kagalou I.**, Papaschinopoulos T., Papadopoulos V. (2018).Eutrophication in a Mediterranean lake using Fuzzy Liner Regression Method with fuzzy data. In “Conventional and Fuzzy Regression:Theory and Engineering Applications” Editors: V.Hrissanthou & M.Spiliotis, Nova science publishers, N.York.
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Conference proceedings (selected overall 125)

1. Latinopoulos D., Sidiropoulos P., **Kagalou I.** (2018). Gap Analysis targeting WFD monitoring and pressure mapping: Lessons learned from “EcoSUSTAIN”, Interreg-MED Project. MDPI Proceed. 3rd EWaS International Conference on “Insights on the Water-Energy-Food Nexus”, Lefkada Island, Greece, 27-30 June 2018.

2. Latinopoulos D., Ntsisliidou Ch. **Kagalou I.** (2018). Impact assessment of habitat and hydromorphological alterations in two heavily modified lakes. MDPI Proceed. 3rd EWaS International Conference on “Insights on the Water-Energy-Food Nexus”, Lefkada Island, Greece, 27-30 June 2018.
3. Nitsa, T., Latinopoulos, D., Mirli, A., **Kagalou I.** (2017): Application of the DPSIR model for pollution assessment in a transboundary river basin (Aoos/Vjosa): success or failure to achieve good ecological status. 15th International Conference on Environmental Science and Technology (CEST 2017), , 31 August- 2 September Rhodes, Greece.
4. Sidiropoulos P., Chamoglou M., **Kagalou I.** (2016). Evaluating of the ecological restoration of a Mediterranean reservoir. *Sustainable Hydraulics in the Era of Global Change - Proceedings of the 4th European Congress of the International Association of Hydroenvironment engineering and Research*, Liege, Belgium.
5. Ellina G., **Kagalou I.** (2016). Fuzzy logic uses on eutrophication and water quality predictors. *Sustainable Hydraulics in the Era of Global Change - Proceedings of the 4th European Congress of the International Association of Hydroenvironment engineering and Research*, Liege, Belgium.
6. Papadimitriou T. & **Kagalou I.** (2013) Assessment of cylindrospermopsins in lake water and the commercial fish species in an artificially lake. *9th International Conference on Toxic cyanobacteria*, South Africa.
7. Papadimitriou T., Klaimber M., Moutou K., & **Kagalou I.** (2015). Assessment of cyanotoxins in a reconstructed lake: impacts on fish. *International Shallow lakes Conference*, Antalya, Turkey.
8. Alexakis D., **Kagalou I.**, Tsakiris G. (2011). The application of the DPSIR approach on surface water bodies. *VI EWRA International Symposium*, Catania, Italy.
9. **Kagalou I.**, Psilovikos A. (2011). Assessment of the typology and the trophic status of two Mediterranean lake ecosystems: application of the WFD. *VI EWRA International Symposium*, Catania, Italy.
10. Papadimitriou T., Stabouli Z., **Kagalou I.** (2011). Preliminary results on the cyanotoxicity of the “new” lake Karla. *12th International Conference on Environmental Science & Technology*, Rhodes, Greece.
11. Sidiropoulos P., Papadimitriou T., Stabouli Z., **Kagalou I.** (2011). Past, present and future concepts for conservation of the re-constructed lake Karla (Thessaly, Greece). *16th International Symposium of MESAEP*, Ioannina, Greece.
12. Tsolakou Th., Papadimitriou Th., **Kagalou I.**, Leonardos I. (2011). Risk assessment of cyanobacterial bloom in lake Pamvotis (NW Greece). *16th International Symposium of MESAEP*, Ioannina, Greece.
13. Latsiou A., Papageorgiou C., Papastergiadou E, **Kagalou I.** (2009). An assessment of the attitudes of the local population in two Greek protected areas: towards a framework for sustainable development? *International Conference of Conservation*, Prague, Czech Republic.
14. **Kagalou I.**, Antonopoulos A., Leonardos I. (2010). Zooplankton community and environmental conditions in five Mediterranean lakes. *Academy Colloquium, Predictability of Plankton Communities in an Unpredictable world*, Amsterdam, Netherlands.
15. Papadimitriou T., Leonardos I., **Kagalou I.** (2010). Seasonal variation of microcystin and phycocyanin concentration in a Mediterranean shallow lake. Link with environmental factors. *8th International Conference on Toxic cyanobacteria*, Instabul, Turkey.
16. Klaoudatos S., **Kagalou I.**, Panagiotaki P., Seretidou G., Neofitou C. (2009). Water quality trends in Vistonis lake (Greece): a long-term approach. *6th Symposium for European Freshwater Sciences*, Bucurest, Romania.
17. **Kagalou I.**, Kowalczevska- Madura K., Antonopoulos A., Dondajewska R., Leonardos I., Goldyn R. (2008). *International Shallow lakes Conference*, Punta del Este, Uruguay.
18. Antonopoulos A., **Kagalou I.**, Leonardos I. (2008). *International Shallow lakes Conference*, Punta del Este, Uruguay.

19. **Kagalou I.**, Moutou K., Kalfakakou V. (2008). An Integrated water quality management project (INTERREG III) for Kalamas river basin (NW-Greece): towards EU-WFD implementation? *WSEAS International Conference*, Porto, Portugal.
20. **Kagalou I.**, Latsiou A. (2007). Perceptions and attitudes of local community in a protected lake ecosystem: an environmental education issue? *SECOTOX Conference and the International Conference on Environmental Management Engineering, Planning and Economics*, Skiathos, Greece.
21. Papadimitriou T., **Kagalou I.**, Leonardos I. (2007). Occurrence of Microcystins in Lake Pamvotis (Greece) and tissue distribution in the fish species, *Carassius gibelio* (Bloch). *Sefs-5 Symposium for European sciences*. Palermo, Italy.

RESEARCH PROJECTS (selected)

SMIRES-COST ACTION 15113 “Science and Management of Intermittent Rivers and Ephemeral Streams.

DNAqua-Net COST ACTION 15219 “Developing new genetic tools for bioassessment of aquatic ecosystems in Europe”

EcoSustain, Ecological sustainable Governance of Mediterranean protected Area via Scientific, Technical and Managerial Knowledge Base. Interreg- Med 2014-2020.

Environment educational issues concerning the integrated management and the sustainable development of two river areas: Ofanto - Italy & Kalamas- Greece. INTERREGIII A GREECE-ITALY.

Thyamis, Actions for the promotion of integrated coastal zone management in the catchment areas and estuaries of two rivers: the case of Kalamas river (Greece) and Lynher (U K). LIFE Program, 99ENV/GR000557.

Environment educational issues concerning the integrated management and the sustainable development of two river areas: Ofanto - Italy & Kalamas- Greece. INTERREGIII A GREECE-ITALY.

Thyamis, Actions for the promotion of integrated coastal zone management in the catchment areas and estuaries of two rivers: the case of Kalamas river (Greece) and Lynher (U K). LIFE Program, 99ENV/GR000557.