

CURRICULUM VITAE

CHRISTOS STELIOS AKRATOS

ADDRES

Office:

Department of Civil Engineering
University Campus of Kimmeria
Democritus University of Thrace
Xanthi, 67100

Phone: 2541079660, Fax: 2541079024

Home:

E. Pontou 14
Xanthi, 67100

Cell phone: +30 6974-817734

E-mail: cakratos@civil.duth.gr cakratos@yahoo.gr

Personal information

Birth date: 30 January 1980

Family condition: Married with 3 children

Citizenship: Greek

ACADEMIC TITLES

- November 2002: Environmental Engineering Diploma, School of Engineering, Democritus University of Thrace, Rank 8,47/10.
- June 2006: PhD, Department of Environmental Engineering, School of Engineering, Democritus University of Thrace (Subject: "Optimization of design parameters of subsurface flow constructed wetlands using pilot-scale units").

ACADEMIC AND PROFESSIONAL EXPERIENCE:

- **August 2020-today**: Associate Professor in Water Resources and wastewater Management, Department of Civil Engineering, Democritus University of Thrace, Xanthi, Greece.
- **May 2018-August 2020**: Assistant Professor in Water Resources and wastewater Management, Department of Civil Engineering, Democritus University of Thrace, Xanthi, Greece.
- **May 2013-May 2018**: Assistant Professor in Water Resources and wastewater Management, Department of Environmental and Natural Resources Management, University of Patras, Agrinio, Greece.
- **May 2009 – May 2013**: Lecturer in Water Resources emphasizing in Wetlands Management, Department of Environmental and Natural Resources Management, University of Patras, Agrinio, Greece.
- **August 2007-May 2009**: Post doctoral researcher, Department of Environmental Engineering, School of Engineering, Democritus University of Thrace
- **August 2006-August 2007**: Compulsory Military Service

FOREIGN LANGUAGES

1. English: Level C2. Certificates:

- June 2003: Certificate of Proficiency in English (University of Cambridge)
- March 2003: Certificate of Proficiency in English (University of Michigan)
- June 1995: First Certificate in English (University of Cambridge)

2. German: Level C1. Certificates:

- March 2017: Goethe Zertifikat in Deutsch C1

SCLORASHIPS

- Scholarship of Labor home 1999 and 2000 (during under-graduate studies)
- Scholarship of Scholarship State Foundation 2001 (during under-graduate studies)
- Scholarship of Technical Chamber of Greece 2002 (during under-graduate studies)
- Scholarship of REVOIL S.A. during academic year 2003 – 2004 (during post-graduate studies)
- Scholarship of Bodossaki Foundation 2003 – 2006 (during post-graduate studies)

PARTICIPATION IN RESEARCH PROJECTS

- **Research project title:** Study of full scale constructed wetlands units for wastewater treatment
Budget: 80000 Euros
Source of funding: European Union - European Social Fund (ESF) & National Sources, in the framework of the program EPEAEK-Pythagoras II Operational Program of Ministry of Education
Role: Member of the main research team
Starting and ending dates: 1/1/2005 until 31/12/2006
- **Research project title:** Risk assessment of Lake Poliftos waters, Prefecture of Kozani
Budget: 150000 Euros
Source of funding: European Union - European Social Fund (ESF) & National Sources, in the framework of the program EPEAEK Environment – Archimedes Operational Program of Ministry of Education
Role: Member of the main research team
Starting and ending dates: 1/1/2004 until 31/12/2005
- **Research project title:** HYDRANET
Budget: 2000000 Euros
Source of funding: European Union - European Social Fund (ESF) & National Sources, in the framework of the program INTERREG IIIB-MEDDOC
Role: Member of the main research team
Starting and ending dates: 1/1/2006 έως 30/6/2007
- **Research project title:** A pilot monitoring program for the transboundary basin of River Nestos
Budget: 411800 Euros
Source of funding: European Union - European Social Fund (ESF) & National Sources, in the framework of the program INTERREG IIIA / PHARE CBC Greece – Bulgaria
Role: Member of the main research team
Starting and ending dates: 1/1/2006 until 31/7/2008
- **Research project title:** Integrated sludge treatment and wastewater treatment using natural systems
Budget: 675750 Euros
Source of funding: European Union - European Social Fund (ESF) & National Sources, in the framework of GSRT's Regional operational program
Role: Member of the main research team
Starting and ending dates: 1/1/2007 until 31/3/2008
- **Research project title:** Monitoring program of surface waters and groundwater of River Nestos
Budget: 170710 Euros
Source of funding: Regional Authority of Eastern Macedonia and Thrace
Role: Member of the main research team

Starting and ending dates: 14/7/2008 until 31/10/2008

- **Research project title:** Hexavalent Chromium REDUCTION from contaminated groundwater and from wastewaters (CREDUCTION)

Budget: 600000Euros

Source of funding: European Union - European Social Fund (ESF) & National Sources, in the framework of the program “THALIS” of the “Operational Program Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) 2007-2013

Role: Member of the main research team

Starting and ending dates: 1/4/2012 until 31/3/2015

TEACHING ACTIVITIES (2007-2019)

Teaching – Undergraduate Courses

- Introduction on Environmental Engineering 2009-2013
- Hydrogeology 2008-2013
- Applied Hydraulics 2009-2017
- Technical Hydrology 2008-2017
- Natural Systems for wastewater management 2009-2019
- Environmental Measurements 2007-2009
- Solid waste management 2015-2017
- Wastewater management 2015-2019

Teaching – Postgraduate Courses

- “Constructed wetlands for wastewater and sludge treatment”, in the M.Sc. programs “Hydraulic engineering and environment”, Democritus University of Thrace (2017-today).
- “Constructed wetlands for wastewater and sludge treatment”, in the M.Sc. programs “Water Resources Engineering and Management” and “Air Quality Control, Solid Waste and Waste Water Process Engineering”, University of Stuttgart (2015-today).
- «Wastewater management» in the M.Sc. program “Waste Management”, Hellenic Open University (2015-today).
- “Advanced Environmental Technologies” and “Environmental Laboratory Techniques” in the M.Sc. program “Applications for Environmental Protection and Management, University of Patras (2015-2017).
- “Environmental pollution – remediation of degraded elements in protected areas – ecotoxicology and biotechnological applications” in the M.Sc. program “Sustainable Management of Protected Areas”, University of Patras, (2 semesters) - (2009-2011)
- “Environmental Impact Assessment Studies” in the M.Sc. program “Sustainable Management of Protected Areas”, University of Patras, (2 semesters) - (2009-2011)
- M.Sc. “Ecological and Environmental Engineering”, Department of Environment, University of Aegean). Ecological Engineering lectures.

POSTGRADUATE SUPERVISION

Ph.D. Students

1. Sultana M. (2010-2014) “Wastewater treatment using constructed wetlands” –Supervisor.
2. Chowdhury A. (2010-2014) “Composting of agro-industrial by-products” – Co-supervisor.
3. Eleftheriadou E. (2018-today) Co-supervisor
4. Anastasopoulos P. (2019-today) Supervisor

M.Sc. Students

1. Theodori C. (2009-2010)
2. Herouveim E. (2009-2011)
3. Tassoula Evangelia (2013-2014).
4. Agathou Dimitra (2015-2016)
5. Karampasis George (2015-2017)
6. Theodoridou Anatoli (2016-2017)
7. Anagnostidou Ekaterini (2016-2017)
8. Zamvrakidou Afroditi (2016-2017)
9. Theodoridou Anatoli (2017-2018)
10. Theochari Charouls (2017-2018)
11. Mastrandreou Ioannis (2017-2018)
12. Gavriilidis Gerorgios (2017-2018)
13. Karametos Ioannis (2017-2018)
14. Skatharos Grigorios (2018-2019)
15. Roubou Eleni (2018-2019)
16. Efthimiadis Konstantinos (2018-2019)
17. Giapamtzis Christos (2018-2019)

DISTINCTIONS

- 2012: The most cited articles published since 2007: “C.S. Akratos and V.A. Tsihrintzis. (2007). Effect of Temperature, HRT, Vegetation and Porous Media on Removal Efficiency of Pilot-Scale Horizontal Subsurface Flow Constructed Wetlands, Ecological Engineering, Vol. 29, pp. 173-191”

INVITED TALKS AND ORGANIZING – SCIENTIFIC COMMITTEES

- June 2001: Conference secretariat in International Conference of Ecological Protection of the Planet Earth I, June 5-8 2001, Xanthi Greece.
- July 2009: Member of organizing committee in International Conferences «2nd International Conference on Water Economics, Statistics, and Finance» και «Asset Management of Small and Medium Wastewater Utilities» 3-5 July, Alexandroupoli.
- July 2010: Member of scientific committee in X Protection and Restoration of Environment International Conference
- April 2013: Member of scientific committee in 1st EWaS-MED International Conference
- October 2013: Member of scientific committee in International 4th Conference of Decentralized Wastewater Treatment Plants
- March 2014: Member of scientific committee in 4th Environmental Conference of Macedonia
- Horizon 2020 Capacity Building/Mediterranean Environment Programme, “Best environmental practices in olive mill waste management and new technologies” Lecture on “Post-treatment of Olive Mill Waste Water in pilot-scale and full-scale constructed wetlands”

NATIONAL AND INTERNATIONAL COOPERATIONS

- Institute for Sanitary Engineering, water quality and solid waste management, University of Stuttgart (Prof. Heidrun Steinmetz): June – August 2014: Visiting researcher

- Linnaeus University, Sweden (Prof. William Hogland)
- Dublin City University, Ireland (Dr. Enrico Marsili)
- Institute of Chemical Engineering, Bulgarian Academy of Sciences, Bulgaria (Prof. Venko Beschkov)
- Czestochowa University of Technology, Czech (Dr. Ewa Neczaj)
- National Research Center, Egypt (Dr. Ahmed Mahmoud Shaban)
- Cartif Technology Centre, Spain (Dr. Dolores Hidalgo-Barrio)
- Versuchs- und Lehranstalt für Brauerei in Berlin, Germany (Dr. Gerhard Andreas Schreiber)
- Ceramic Technology Institute, Spain (Dr. Mar Rodrvuez Rodrigo)
- EU Voronezh State University, Russia (Anna Kamynina)
- Asociación de Investigación de la Industria Metalmeccánica, afines y conexas, Spain (Dr. Ana Valero Gomez)
- Leitat Technological Center, Spain (Dr. Anna Serra)
- T.E. Laboratories, Ireland (Dr. Niamh Walsh)
- Konectia (Natural Connections and Consulting S.L.), Spain (Juan Carlos Barrera)
- Mekorot, Israel (Dr. Roy Elkayam)
- Hebrew University of Jerusalem (Prof. Ovadia Lev)
- Shenyang Jianzhu University, China (Dr. Yunan Gao)
- Department of Chemical Engineering, University of Patras (Prof. S. Pavlou)
- Department of Biology, University of Patras (Prof. G. Aggelis)
- FORT/ICE-HT, Patras
- Department of Chemistry, Aristotle University of Thessaloniki (Prof. A. Zouboulis)
- Department of Biology, Aristotle University of Thessaloniki (Prof. M. Yiangou)
- Department of Chemical Engineering, Aristotle University of Thessaloniki (Assist. Prof. M. Mitrakas)
- Department of Environmental Engineering, Democritus University of Thrace (Asc. Prof. P. Melidis)
- School of Rural and Surveying Engineering, National Technical University of Athens (Prof. V. Tsihrintzis)
- Department of Biochemistry and Biotechnology, University of Thessaly (Assoc. Prof. T.D. Karpouzas)
- Department of Chemical Engineering, National Technical University of Athens (Prof. G. Lyberatos)
- Olive mill of Mr. C. Theodorou, Amfilochia
- Union of Agricultural Cooperatives of Agrinio
- Cheese dairy Papathanasiou, Agrinio

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. G.K. Sylaios, V.A. Tsihrintzis, C. Akratos, A. Tsikliras and K. Haralambidou. (2003). Residual Currents and Fluxes through the Mouth of Vassova Lagoon, Mediterranean Marine Science, Vol. 4, No. 2, pp 39-52.
2. G.K. Sylaios, V.A. Tsihrintzis, C. Akratos and K. Haralambidou. (2004). Monitoring and Analysis of Water, Salt and Nutrient Fluxes at the Mouth of a Lagoon, Water, Air and Soil Pollution – Focus, Vol. 4, pp. 111-125. (IF 2012: 1.748, Cited: 5)
3. G.K. Sylaios, V.A. Tsihrintzis, Ch. Akratos, A. Tsikliras and K. Haralambidou. (2005). Exchange Dynamics through the Mouth of a Coastal Lagoon, Journal of Marine Environmental Engineering, Vol. 8, No. 1., pp. 1-19. (Cited: 0)

4. K.I. Haralampidou, V.A. Tsihrintzis, G.K. Sylaios and C. Akratos. (2005). Seasonal and Spatial Characteristics of Water Quality in the Estuary of Strymon River, *Journal of Marine Environmental Engineering*, Vol. 7, No. 4, pp. 231-239. (Cited: 4)
5. G.K. Sylaios, V.A. Tsihrintzis, C. Akratos and K. Haralambidou. (2006). Quantification of Water, Salt and Nutrient Exchange Processes at the Mouth of a Mediterranean Coastal Lagoon, *Environmental Monitoring & Assessment*, Vol 119, pp. 275-301. (IF 2012: 1.592, Cited 8)
6. C.S. Akratos, V.A. Tsihrintzis, I. Pechlivanidis, G.K. Sylaios and H. Jerrentrup. (2006). A Free Water Surface Constructed Wetland for the Treatment of Agricultural Drainage Entering Vassova Lagoon, Kavala, Greece, *Fresenius Environmental Bulletin*, Vol. 15, pp. 1553-1562. (IF 2012: 0.641, Cited: 5)
7. P. Melidis, C. Akratos, V.A. Tsihrintzis and E. Trikoilidou. (2007). Characterization of Rain and Roof Drainage Water Quality in Xanthi, Greece, *Environmental Monitoring & Assessment*, Vol. 127, pp. 15-27. (IF 2012: 1.592, Cited: 19)
8. C.S. Akratos and V.A. Tsihrintzis. (2007). Effect of Temperature, HRT, Vegetation and Porous Media on Removal Efficiency of Pilot-Scale Horizontal Subsurface Flow Constructed Wetlands, *Ecological Engineering*, Vol. 29, pp. 173-191. (IF 2012: 3.272, Cited: 155)
9. V.A. Tsihrintzis, C.S. Akratos, G.D. Gikas, D. Karamouzis, and A.N. Angelakis. (2007). Performance and Cost Comparison of a FWS and a VSF Constructed Wetland Systems, *Environmental Technology*, Vol. 28, pp 621-628. (IF 2012: 1.606, Cited: 24)
10. G.D. Gikas, C.S. Akratos and V.A. Tsihrintzis. (2007). Performance Monitoring of a Vertical Flow Constructed Wetland Treating Municipal Wastewater, *Global Nest: The International Journal*, Vol. 9, pp. 277-285. (IF 2012: 0.698, Cited: 5)
11. C.S. Akratos, J.N.E. Papaspyros and V.A. Tsihrintzis. (2008). An Artificial Neural Network Model and Design Equations for BOD and COD Removal Prediction in Horizontal Subsurface Flow Constructed Wetlands, *Chemical Engineering Journal*, Vol. 143, pp. 96-100. (IF 2012: 3.473, Cited: 37)
12. K.I. Vatalis, G. Charalampides, O. Manoliadis, C. Akratos and A. Asvesta. (2008). Water quality assessment of the Polyfyto lake in Western Macedonia, Greece, *Journal of Environmental Protection and Ecology*, Vol. 9, pp. 540-549 (IF 2012: 0.259, Cited: 2)
13. C.S. Akratos, J.N.E. Papaspyros and V.A. Tsihrintzis. (2009). Total Nitrogen and Ammonia Removal Prediction in Horizontal Subsurface Flow Constructed Wetlands: Use of Artificial Neural Networks and Development of a Design Equation, *Bioresource Technology*. Vol. 100, pp.586-596. (IF 2012: 4.750, Cited: 21)
14. G. D. Gikas, V. A. Tsihrintzis, C. S. Akratos and G. Haralambidis. (2009). Water quality trends in Polyphytos reservoir, Aliakmon river, Greece. *Environmental Monitoring and Assessment*, Vol 149, pp. 163-181 (IF 2012: 1.592, Cited: 16)
15. C.S. Akratos, J.N.E. Papaspyros and V.A. Tsihrintzis. (2009). Artificial Neural Network Use in Ortho-phosphate and Total Phosphorus Removal Prediction in Horizontal Subsurface Flow Constructed Wetlands, *Biosystems Engineering*, Vol. 102, pp. 190-201 (IF 2012: 1.869, Cited: 17)
16. A.I. Stefanakis, C.S. Akratos, G.D. Gikas and V.A. Tsihrintzis (2009). Effluent quality improvement of two pilot-scale, horizontal subsurface flow constructed wetlands using natural zeolite (clinoptilolite), *Microporous and Mesoporous Materials*, Vol. 12, pp. 131-143. (IF 2012: 3.365, Cited: 19)
17. A.I. Stefanakis, C.S. Akratos, P. Melidis and V.A. Tsihrintzis. (2009). Surplus activated sludge dewatering in pilot-scale sludge drying reed beds, *Journal of Hazardous Materials* 172 (2-3), pp. 1122-1130 (IF 2012: 3.925, Cited: 15)
18. P. Melidis, G.D. Gikas, C.S. Akratos, and V.A. Tsihrintzis. (2010). Dewatering of primary settled urban sludge in a vertical flow wetland, *Desalination* 250, pp. 395-398 (IF 2012: 3.041, Cited: 9)

19. A.I. Stefanakis, C.S. Akrotos and V.A. Tsihrintzis. (2011). Effect of wastewater step-feeding on removal efficiency of pilot-scale horizontal subsurface flow constructed wetlands, *Ecological Engineering* 37, pp. 431-443 (IF 2012: 3.272, Cited: 9)
20. M. Michailides, P. Panagopoulos, C.S. Akrotos, A.G. Tekerlekopoulou, and D.V. Vayenas. (2011). A full-scale system for aerobic biological treatment of olive mill wastewater, *Journal of Chemical Technology and Biotechnology* 86, pp. 888-892 (IF 2012: 2.504, Cited: 8)
21. E. Herouvim, C.S. Akrotos, A.G. Tekerlekopoulou and D.V. Vayenas. (2011). Treatment of olive mill wastewater in pilot-scale vertical flow constructed wetlands, *Ecological Engineering* 37, pp. 931-939 (IF 2012: 3.272, Cited: 15)
22. G.D. Gikas, V.A. Tsihrintzis and C.S. Akrotos. (2011). Performance and modeling of a vertical flow constructed wetland-maturation pond system, *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering* 46, pp. 692-708 (IF 2012: 1.252, Cited: 10)
23. M. Michailides, G. Christou, C.S. Akrotos, A.G. Tekerlekopoulou and D.V. Vayenas. (2011). Composting of olive leaves and pomace from a three-phase olive mill plant, *International Biodeterioration and Biodegradation* 65 (3), pp. 560-564 (IF 2012: 2.059, Cited: 2)
24. A.K.M.M.B. Chowdhury, C.S. Akrotos, D.V. Vayenas and S. Pavlou. (2013). Olive mill waste composting: a review. *International Biodeterioration & Biodegradation* 85, 108-119. (IF 2012: 2.059, Cited: 1)
25. M.K. Michailides, M.Y. Sultana, A.G. Tekerlekopoulou, C.S. Akrotos and D.V. Vayenas. (2013). Biological Cr(VI) removal using bio-filters and constructed wetlands, *Wat. Sci. Tech.* 68, pp. 2228-2233. (IF 2012: 1.102, Cited: 0)
26. A.K.M.M.B. Chowdhury, M.K. Michailides, C.S. Akrotos, A.G. Tekerlekopoulou, S. Pavlou and D.V. Vayenas. (2014). Composting of three phase olive mill solid waste using different bulking agents, *International Biodeterioration and Biodegradation* 91, pp. 66-73. (IF 2012: 2.059, Cited: 0)
27. M-Y. Sultana, C.S. Akrotos, S. Pavlou and D.V. Vayenas. (2014) Chromium removal in constructed wetlands: A review, *International Biodeterioration and Biodegradation* 96, pp. 181-190.
28. M.K. Michailides, A.G. Tekerlekopoulou, C.S. Akrotos, S. Coles, S. Pavlou and D.V. Vayenas. (2015). Molasses as an efficient low-cost carbon source for biological Cr(VI) removal, *Journal of Hazardous Materials* 281, pp. 95-105.
29. M. Sultana, A.K.M.M.B. Chowdhury, M.K. Michailides, C.S. Akrotos, A.G. Tekerlekopoulou, and D.V. Vayenas. (2015). Integrated Cr(VI) removal using constructed wetlands and composting, *Journal of Hazardous Materials* 281, pp. 106-113.
30. M.K. Michailides, T. Tatoulis, Mar-Yam Sultana, A.G. Tekerlekopoulou, I. Konstantinou, C. S. Akrotos, S. Pavlou and D.V. Vayenas (2015) "Start-up of a free water surface constructed wetland for treating olive mill wastewater" *Hemijaska industrija (Chemical Industry)* 69, 577-583.
31. T.I. Tatoulis, A.G. Tekerlekopoulou, C.S. Akrotos, S. Pavlou and D.V. Vayenas (2015) "Aerobic Biological Treatment of Second Cheese Whey in Suspended and Attached Growth Reactors" *Journal of Chemical Technology and Biotechnology*, 90, 2040-2049.
32. Abu Khayer Md. Muktaadirul Bari Chowdhury, F. Konstantinou, A. Damati; C.S. Akrotos, D. Vlastos, A.G. Tekerlekopoulou, D.V. Vayenas (2015) "Is physicochemical evaluation enough to characterize olive mill waste compost as soil amendment? The case of genotoxicity and cytotoxicity evaluation" *Journal of Cleaner Production*, 93, 5106, 94-102.
33. Mar-Yam Sultana, T.I. Tatoulis, C.S. Akrotos, A.G. Tekerlekopoulou, D.V. Vayenas (2015) "Effect of operational parameters on the performance of a horizontal subsurface flow constructed wetland treating secondary cheese whey and Cr(VI) wastewater" *International Journal of Civil and Structural Engineering*, Volume 2 : Issue 1 [ISSN : 2372-3971].

34. I. Vasiliadou, Abu Khayer Md. Muktadirul Bari Chowdhury, C.S. Akrotos, A.G. Tekerlekopoulou, S. Pavlou, D.V. Vayenas (2015), "Mathematical modeling of olive mill waste composting process" *Waste Management*, 43, 61-71.
35. M-Y. Sultana, C. S. Akrotos, S. Pavlou and D.V. Vayenas (2015) "Constructed wetlands in the treatment of agro-industrial wastewater: A review" *Hemijiska industrija (Chemical Industry)*, 69, 127-142
36. M-Y. Sultana, C. Mouri, T. Tatoulis, C. Akrotos, A.G. Tekerlekopoulou, D.V. Vayenas (2015) "Effect of hydraulic retention time, temperature, and organic load on a horizontal subsurface flow constructed wetland treating cheese whey wastewater" *Journal of Chemical Technology and Biotechnology*, 91, 726-732.
37. Tatoulis T.I., Zapantiotis S., Frontistis Z., Akrotos C.S., Tekerlekopoulou A.G.*, Pavlou S., Mantzavinos D., Vayenas D.V. (2016), "A hybrid system comprising an aerobic biological process and electrochemical oxidation for the treatment of black table olive processing wastewaters" *International Biodeterioration and Biodegradation, International Biodeterioration & Biodegradation* 109, 104-112.
38. O.N. Tsolcha, A.G. Tekerlekopoulou, C. S. Akrotos, S.Bellou, G. Aggelis, M. Katsiapi, M. Moustaka-Gounic, D.V. Vayenas (2016), "Treatment of second cheese whey effluents using a Choricystis-based system with simultaneous lipid production" *Journal of Chemical Technology and Biotechnology*, 9, 2349-2359.
39. K.A. Karanasios, I.A. Vasiliadou, A.G. Tekerlekopoulou, C.S. Akrotos, S. Pavlou, D.V. Vayenas (2016) "Effect of C/N ratio and support material on heterotrophic denitrification of potable water in bio-filters using sugar as carbon source" *International Biodeterioration & Biodegradation*, 111, 62–73.
40. T. Tatoulis, A. Stefanakis, Z. Frontistis, C.S. Akrotos, A.G. Tekerlekopoulou, D. Mantzavinos, D.V. Vayenas (2017), "Treatment of table olive washing water using trickling filters, constructed wetlands and electrooxidation" *Environmental Science and Pollution Research*, 24, 1085-1092.
41. O.N. Tsolcha, A.G. Tekerlekopoulou, C.S. Akrotos, G. Aggelis, S. Genitsaris, M. Moustaka-Gouni, D.V. Vayenas (2017) "Biotreatment of raisin and winery wastewaters and simultaneous biodiesel production using a *Leptolyngbya*-based microbial consortium" *Journal of Cleaner Production*, 148, 185–193.
42. Tatoulis, T., Akrotos, C.S., Tekerlekopoulou, A.G., Vayenas, D.V., Stefanakis, A.I. (2017) "A novel horizontal subsurface flow constructed wetland: Reducing area requirements and clogging risk" *Chemosphere*, 186, pp. 257-268.
43. Petalas, C.P., Akrotos, C.S., Tsihrintzis, V.A. (2018) *Hydrogeological Investigation of a Karst Aquifer System Environmental Processes*, 5 (1), pp. 155-181.
44. Tatoulis, T.I., Michailides, M.K., Tekerlekopoulou, A.G., Akrotos, C.S., Pavlou, S., Vayenas, D.V. (2018) "Simultaneous treatment of agro-industrial and industrial wastewaters: Case studies of Cr(VI)/second cheese whey and Cr(VI)/winery effluents" *Water (Switzerland)*, 10 (4), art. no. 382
45. Tsolcha, O.N., Tekerlekopoulou, A.G., Akrotos, C.S., Antonopoulou, G., Aggelis, G., Genitsaris, S., Moustaka-Gouni, M., Vayenas, D.V. (2018) "A *Leptolyngbya*-based microbial consortium for agro-industrial wastewaters treatment and biodiesel production" *Environmental Science and Pollution Research*, pp. 1-10. Article in Press.
46. O.N. Tsolcha, A.G. Tekerlekopoulou, C.S. Akrotos, G. Aggelis, S.Genitsaris, M. Moustaka-Gouni, D.V.Vayenas, (2018) "Agroindustrial wastewater treatment with simultaneous biodiesel production in attached growth systems using a mixed microbial culture", *Water (Switzerland)*, 10 (11), art. no. 1693, .
47. A. Kotoulas, D. Agathou, I.E. Triantaphyllidou, T.I. Tatoulis, C.S. Akrotos, A.G. Tekerlekopoulou, D.V. Vayenas, (2019) "Zeolite as a potential medium for ammonium recovery and second cheese whey treatment", *Water (Switzerland)*, 11 (1), art. no. 136, .

48. A. Kotoulas, D. Agathou, I.E. Triantaphyllidou, T.I. Tatoulis, C.S. Akratos, A.G. Tekerlekopoulou, D.V. Vayenas, (2019) “Second cheese whey treatment using zeolite under continuous flow mode and its application on wheat growth”, *Water (Switzerland)*, 11 (5), art. no. 928, .

Years since first publication:	15
Mean number of papers/year:	3,27
Citations (excluding self citations) :	1206
Citations/publication	24.61
H	19

PUBLICATIONS IN INTERNATIONAL CONFERENCES

1. G.K. Sylaios, V.A. Tsihrintzis, C. Akratos and K. Haralambidou. (2002). Monitoring and Analysis of Water, Salt and Nutrient Fluxes at the Mouth of a Lagoon, Proceedings of the International Conference Protection and Restoration of the Environment VI, July 1-5, Skiathos Island, Greece, pp. 435-442.
2. G.K. Sylaios, V.A. Tsihrintzis, Ch. Akratos, A. Tsikliras and K. Haralambidou. (2002). Exchange Dynamics through the Mouth of a Coastal Lagoon, 1st Scientific Conference “Oceanographical Aspects for a Sustainable Mediterranean”, Hellenic Oceanographers Association and European Federation of Marine Science and Technology Societies, 27-29 September, Athens, Greece, in CD-Rom #M13.
3. K. Haralambidou, G. Sylaios, V.A. Tsihrintzis, C.S.. Akratos. (2003). Monitoring program for the study and Management of Strymon river estuary, Proceedings of 9th Conference of Hellenic Hydrotechnical Union.
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RESEARCH INTERESTS

This short profile includes a briefly description of the main elements of my curriculum vitae, presents my main research interests and my future research plants.

I started my research career as an undergraduate student of the Department of Environmental Engineering, Democritus University of Thrace, during my diploma thesis. The theme of my diploma thesis was 'Monitoring and Analysis of Water, Salt and Nutrient Fluxes at the Mouth of Vassova Lagoon'. My diploma thesis results were presented in 4 papers in International scientific journals and 2 publications in International scientific conferences.

After graduating in November 2002, I continued my studies in the same Department as a Ph.D. student. During my doctoral thesis, which was entitled 'Optimization of design parameters of subsurface flow constructed wetlands using pilot-scale units', I developed innovative pilot-scale units, in order to estimate the effect of different operational parameters in CWs efficiency. The experimental results of my doctoral thesis were presented in 4 papers in International scientific journals and one of them was the most cited article for the period 2007-2011 for Ecological Engineering Journal. During my Ph.D. studies I also participated in all the other research activities of Ecological Engineering and Technology Laboratory gaining important experience in water resources management, monitoring of surface and coastal water bodies, coastal erosion and wastewater treatment. I finished my doctoral thesis in June 2006 (after 3.5 years) and after 1 year of obligatory military service I continued working in the same Department as Post-Doctoral researcher until May 2009, when I was appointed Lecturer in the Department of Environmental and Natural Resources Management, University of Ioannina. In January 2013 I was promoted to Assistant Professor in the same Department.

During this 5 years as faculty member of Environmental and Natural Resources Management Department I continued my research activities mainly in the areas of wastewater treatment using constructed wetlands and biological trickling filters (applications mainly for agro-industrial and industrial wastewater treatment), composting of agricultural solid waste. During the years as faculty member I have also taught eight undergraduate and two graduate courses in the general area of water resources and ecological management. In addition, I have supervised to completion 12 diploma Theses and 2 graduate study Theses, and I am the supervisor of 1 and co-supervisor of another one Ph.D. students.

A significant part of my research activities were part of fifteen funded projects, in which I have working as team member. I total until today I have co-authored 23 referred journal publications (12 as first or second author), 36 conference proceedings papers (18 as first or second author), and I have wrote chapters in 3 books.

In the future I intend to continue working on decentralized wastewater treatment systems aiming at developing innovative low cost treatment systems for wastewater treatment of small industries, agro-industries and remote villages and towns. Furthermore I intend to investigate further the biochemical processes, which take place in constructed wetlands in order to optimize or produce new design tools. Specifically I would like to concentrate in examining the removal mechanisms of toxic pollutants (i.e. phenols, Cr(VI), As etc) in constructed wetlands and to use alternative porous materials (e.g. plastic porous materials), which will increase porosity and minimize clogging phenomenon in constructed wetlands. Moreover I would like to work groundwater artificial recharge using treated wastewater and specifically to examine the potential use of the vadose zone as a wastewater post-treatment stage.

C.S. Akratos

