



TECHNICAL UNIVERSITY OF CRETE

School of Chemical and Environmental Engineering

Polytechnioupolis (Akrotiri Campus)

73100 Chania, GREECE

CURRICULUM VITAE



Alexandros Stefanakis, M.Sc., Ph.D., P.Eng.

Assistant Professor

Laboratory of Environmental Engineering & Management

School of Chemical and Environmental Engineering

Technical University of Crete

astefanakis@enveng.tuc.gr

<https://www.leem.tuc.gr>

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1. PERSONAL INFORMATION

Name	Alexandros Ioannis Stefanakis, M.Sc., Ph.D., P.Eng. Assistant Professor of Water and Wastewater Treatment Processes
Address	Polytechnioupolis, Building K3, Office A23, 73100 Chania, Greece
Affiliation	Laboratory of Environmental Engineering & Management School of Chemical and Environmental Engineering, Technical University of Crete
Tel	+30 2821006121 (office)
Email	astefanakis@enveng.tuc.gr ; stefanakis.alexandros@gmail.com
Website	https://www.enveng.tuc.gr/en/personnel/faculty/alexandros-stefanakis/
Laboratory	http://www.leem.tuc.gr
Linkedin	www.linkedin.com/in/stefanakisalexandros
ResearchGate	https://www.researchgate.net/profile/Alexandros_Stefanakis
GoogleScholar	https://scholar.google.gr/citations?user=o66_VaQAAAAJ&hl=el&oi=ao
Scopus	https://www.scopus.com/authid/detail.uri?authorId=6602375154
Linktree	https://linktr.ee/astefanakis
Nationality	Greek
Date of Birth	1982

1.1 CV Highlights

Dr A. Stefanakis is an Assistant Professor at the School of Chemical and Environmental Engineering, Technical University of Crete, Greece. He is the Regional Coordinator for Africa and Middle East for the 'Wetlands for Water Pollution Control' Specialist Group of the International Water Association.

He is also the Editor-in-Chief of the Springer journal 'Circular Economy and Sustainability', Associate Editor in Ecological Engineering (Elsevier) and Environmental Science and Pollution Research (Springer), and editorial board member of other journals. He is also the Chief Editor of the book series 'Circular Economy and Sustainability' (Springer).

In the past, he worked as a Researcher and Lecturer at the School of Environment and technology, University of Brighton in the UK, the Helmholtz Center for Environmental Research – UFZ in Germany, the University of Beira Interior in Portugal, and the Democritus University of Thrace in Greece. He was also employed by the multinational group Bauer Resources GmbH as Tender Manager & Wetlands Specialist in the Middle East, and by the Greek environmental company Ecosafe SA.

He is a graduate Environmental Engineer of the Democritus University of Thrace in Greece with MSc and PhD in ecological engineering and technology. His expertise lies in water and wastewater engineering and particularly in the field of nature-based solutions for water and wastewater management. He also studies the content and the principles of circular economy across different disciplines and fields towards the transition to a sustainable society.

He is an Expert on sustainable and decentralized water and wastewater management with over 15 years' experience in the research, design, construction and operation of eco-technologies. He has implemented Constructed Wetland facilities across Europe, Middle East, Africa, USA and South America for a wide range of applications, including municipal wastewater treatment, various industrial effluents, oilfield produced water, and sludge dewatering. His professional portfolio includes the world's largest industrial constructed wetland system for oilfield wastewater management in the desert of Oman, where he was involved in the design, construction and operation of this flagship facility. He has also designed the largest constructed wetland system in the world for municipal waste treatment in Saudi Arabia, as well as one of the largest constructed wetland systems for mine drainage in Brazil.

He has published several papers in international peer-review journals, books, book chapters and conference proceedings and given several keynote and plenary talks. He has and still is participating in various national and international research projects in many countries.

1.2 Summary of bibliographic data

Articles published in peer review journals: **39**

Scientific books: **4**

Chapters in scientific books: **38**

Conference abstracts and presentations: **49**

	<u>Scopus</u>	<u>Google Scholar</u>
Citations:	1105	1939
<i>h</i> -index:	20	24

URLs: [[Scopus](#)] [[Google Scholar](#)] [[Linkedin](#)] [[ResearchGate](#)] [[ORCID](#)]

1.3 Research Interests

- Water and wastewater treatment processes
- Nature-based solutions
- Constructed Wetlands for wastewater treatment: pollutants removal & transformations processes, design optimization
- Treated effluents reuse in sustainable agriculture
- Sustainable management of industrial and agro-industrial effluents
- Sludge dewatering and reuse/recycling, resource recovery
- Circular economy principles and content
- Applied research studies, full-scale systems implementation
- The role of nature-based solutions to reach the Sustainable Development Goals
- Sustainable urban water management
- New concepts and principles of circular economy towards a sustainable society

2. EDUCATION

- 2011 **Ph.D.**
Thesis: "Optimization of design parameters of Vertical Flow Constructed Wetlands for wastewater treatment and sludge dewatering using pilot-scale units"
Laboratory of Ecological Engineering and Technology, Department of Environmental Engineering, Faculty of Engineering, Democritus University of Thrace, Greece.
Supervisor: Professor Vassilios Tsihrintzis
- 2007 **Master of Science (M.Sc.)**
Thesis: "Operational alterations of pilot-scale Horizontal Subsurface Flow Constructed Wetlands for wastewater treatment"
Postgraduate Studies "Hydraulic Engineering - Hydraulic Works and Environment", Department of Civil Engineering, Faculty of Engineering, Democritus University of Thrace, Greece.
Supervisor: Professor Vassilios Tsihrintzis
- 2005 **Diploma of Environmental Engineer**
Thesis: "Tertiary stage of wastewater treatment using Activated Carbon Filters and Ultrafiltration Membranes"
Laboratory of Wastewater Treatment and Technology, Department of

Environmental Engineering, Faculty of Engineering, Democritus University of Thrace (5-year Curriculum), Greece.

Supervisor: Professor Alexandros Aivazides

1999 **High school diploma**, Schools “Ellinogermaniki Agogi”

3. PROFESSIONAL EXPERIENCE

- 2019-present **Assistant Professor**, School of Chemical and Environmental Engineering, Technical University of Crete, Chania, Greece.
- 2019-present **Regional Coordinator for Africa & Middle East**, Specialist Group “Wetland Systems for Water Pollution Control”, International Water Association
- 2016-2020 **Visiting Lecturer**, Department of Engineering, Faculty of Engineering & Computer Science, German University of Technology, Muscat, Oman
- 2015-2019 **Tender Manager - Constructed Wetlands Expert**, Bauer Nimr LLC, Muscat, Oman & Bauer Resources GmbH, Schrobenhausen, Germany
- 2013-2018 **Constructed Wetlands Specialist & Wastewater Specialist**, Ecosafe Environmental Applications, Ippokratous Street 2, GR10679, Athens, Greece.
- 2014-2016 **Research Fellow**, Greek State Scholarship Foundation – IKY. Fellowships of Excellence for Postgraduate Studies in Greece – Siemens Program. Department of Environmental and Natural Resources Management, University of Patras, Patras, Greece.
- 2014-2015 **Lecturer**, School of Environment and Technology, University of Brighton, Brighton, UK
- 2013-2014 **Researcher**, Department of Environmental Microbiology, Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany.
- 2012 **Lecturer**, Postgraduate Studies “Environmental Engineering and Science”, Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece.
- 2012-2014 **Research Consultant**, Department of Civil Engineering and Architecture, University of Beira Interior, Covilha, Portugal.
- 2011-2012 **Scientific Consultant**, Engineer Directorate, Hellenic Army General Staff, Thessaloniki, Greece.
- 2008-2011 **Lecturer**, Postgraduate Studies “Systems Engineering and Management”, Departments of Civil Engineering and Electrical Engineering & Computer Engineering of the Democritus University of Thrace & Department of

- Business Management & Administration of the University of Macedonia, Xanthi, Greece.
- 2007-2010 **Teaching & Laboratory Assistant**, Department of Petroleum and Natural Gas Technology, Kavala Institute of Technology, Kavala, Greece.
- 2007-2011 **Research Assistant**, Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece.
- 2007-2007 **Research Assistant**, Department of Civil Engineering, Democritus University of Thrace, Xanthi, Greece.

4. TEACHING EXPERIENCE

- 2021 **Lecturer**, Online Lecture Series, EURECA-PRO, The European University Alliance on Responsible Consumption and Production, December 15
Lecture title:
- Nature-based solutions for sustainable wastewater management in the new circular economy paradigm
- 2021 **Lecturer**, three all-day long online Water Academies workshops, Cross-KIC project “Finding innovative solutions for water scarcity in Southern Europe”, led by four innovation communities (EIT Climate, EIT Digital, EIT Food, EIT Manufacturing). Funded by the European Union.
Lecture titles:
- A circular approach for sustainable management of industrial water pollution
 - Produced water management in the oil and gas industry using circular approaches and techniques
 - Nature-based solutions (NBS) for sustainable wastewater management
 - Current treatment technologies for textile wastewater treatment
- 2021 **Lecturer**, Online Course “Nature based solutions in cities”, Institute of Science and Environment, USJ-University of Saint Joseph, Macau-China
Lecture title:
- Constructed Wetlands for sustainable wastewater treatment and reuse: case studies and opportunities
- 2021 **Lecturer**, Online Training Program “Shiraka Water Management and Food Security Nexus in Iran 2020-2021”, The Hague Academy for Local Governance, The Netherlands

Lecture titles:

- Overview of wastewater management in the Middle East
- The need for new wastewater solutions
- Introduction to Constructed Wetlands technology
- Design and function of Constructed Wetlands technology

2021 **Lecturer**, Online Training Program “Nature Based Solutions for Water and Land Management”, Cranfield University, UK

Lectures titles:

- The role of Constructed Wetlands in the Circular Economy paradigm
- Constructed Wetlands for industrial wastewater treatment
- Constructed Wetlands case study: oily water treatment
- Design and applications of Surface Flow Constructed Wetlands
- Introduction to Sludge Treatment Wetlands

2020 **Lecturer**, Online Training Program “Shiraka Water Management in Iraq 2020”, The Hague Academy for Local Governance, The Netherlands

Lecture title:

- The use of Nature-based Solutions in Middle East for treatment and reuse of wastewaters of municipal and industrial sources: benefits, limitations and case studies

2020 **Lecturer**, Online Training Program “Nature Based Solutions for Water and Land Management”, Cranfield University, UK

Lectures titles:

- The role of Constructed Wetlands in the Circular Economy paradigm
- Constructed Wetlands for industrial wastewater treatment
- Constructed Wetlands case study: oily water treatment
- Design and applications of Surface Flow Constructed Wetlands
- Introduction to Sludge Treatment Wetlands

2019-present **Assistant Professor**, School of Environmental Engineering, Technical University of Crete, Greece.

Main tutor of the courses:

- Introduction to Chemical and Environmental Engineering (Undergraduate, 1st Semester)
- Unit Operations for Water and Wastewater Treatment (Undergraduate, 6th Semester)

- Chemical Processes for Water and Wastewater Treatment (Undergraduate, 7th Semester)
 - Circular Economy and Environmental Management (Postgraduate, 2nd semester)
 - Research Lectures (Co-Organizer, Postgraduate, 1st and 2nd semester)
- 2019 **Lecturer**, 5th Summer School on “Wastewater and Biosolids Management” (WWSS18), Postgraduate Study Program “Wastewater and Biosolids Management”, Hellenic Open University, Greece.
- Lecture title:*
- Constructed Wetlands for sustainable wastewater treatment
- 2018 **Lecturer**, 4th Summer School on “Wastewater and Biosolids Management” (WWSS18), Postgraduate Study Program “Wastewater and Biosolids Management”, Hellenic Open University, Greece.
- Lecture title:*
- Constructed Wetlands for sustainable wastewater treatment
- 2017 **Invited Lecture**. Learned Event of the Institution of Civil Engineers and the Oman Society of Engineers. Modern College of Business and Science, Oman.
- Lecture title:*
- Sustainable Wastewater Treatment Systems
- 2016-2020 **Visiting Lecturer**, Department of Engineering, Faculty of Engineering & Computer Science, German University of Technology in Oman, Oman
- Main tutor of the courses:*
- Global Challenges and Sustainable Development (Undergraduate, 5th semester)
 - Environmental Law (Undergraduate, 4th semester)
 - Environmental Impact Assessment (Undergraduate, 7th Semester)
- Co-Tutor of the course:*
- Green Building (Undergraduate, 7th Semester)
- 2016 **Invited Lecture**. Department of Soils, Water & Agricultural Engineering, College of Agricultural & Marine Sciences, Sultan Qaboos University, Oman.
- Lecture title:*
- Wetland technology and related sanitation issues
- 2014-2015 **Lecturer**, School of Environment and Technology, University of Brighton, UK
- Main tutor of the courses:*

- Water treatment Technology (Postgraduate, 1st semester)
- Wastewater treatment technology (Postgraduate, 2nd semester)

Co-Tutor of the courses:

- Environmental pollution and control (Undergraduate, 2nd semester)
- Wetlands (Undergraduate, 2nd semester)
- Water and health (Undergraduate, 3rd semester)
- Soil and water analysis (Undergraduate, 3rd semester)
- Global environmental issues and management (Undergraduate, 4th semester)

2012 **Lecturer**, Master's Program in "Environmental Engineering and Science", Department of Environmental Engineering, Faculty of Engineering, Democritus University of Thrace, Greece

Lecture title:

- Alternative, ecological wastewater treatment and sludge dewatering with Vertical Flow Constructed Wetlands (3-hr Lecture)

2008-2011 **Lecturer**, Postgraduate Studies "Systems Engineering and Management", Department of Civil Engineering and Department of Electrical Engineering & Computer Engineering, Democritus University of Thrace and Department of Business Management & Administration, University of Macedonia, Greece

Course "Environmental Systems Management and Modelling", Lecture titles:

- Natural Models of Constructed Wetlands for wastewater treatment
- Wastewater sludge management with Natural Treatment Systems
- Use of special materials as further treatment of Constructed Wetlands effluent
- Constructed Wetlands for wastewater treatment and sludge dewatering – Performance and modelling

2007-2010 **Teaching & Laboratory Assistant**, Department of Petroleum and Natural Gas Technology, Kavala Institute of Technology, Kavala, Greece

Co-Tutor of the course:

- Environmental Protection (Undergraduate, 7th semester)

5. ADMINISTRATIVE POSITIONS

- 2021-present Representative and Contact Point of the Technical University of Crete for the Lighthouse Mission LH2 'Environment and Water' at the EURECA-PRO, the European University Alliance on Responsible Consumption and Production, for the exchange of know-how and the joint development of proposals for European or National funding among the partner Universities.
- 2021-present Representative of the School of Chemical and Environmental Engineering in the Committee to promote and disseminate the Technical University of Crete in the secondary education.
- 2020-2021 Evaluation Committee Member for the Teaching Assignment to Young Doctors, School of Chemical and Environmental Engineering, Technical University of Crete
- 2021 Evaluation Committee Member for the Postgraduate Scholarships, School of Chemical and Environmental Engineering, Technical University of Crete
- 2020-present Member of the 3-person Committee for the Future of the School of Chemical and Environmental Engineering, Technical University of Crete, Greece
- 2020 Member of the 3-person Evaluation Committee for teaching assignment to Young Scientists and Doctors, School of Chemical and Environmental Engineering, Technical University of Crete, Greece
- 2018 Member of the Occupational Safety, Health Protection and Fire Hazard Committee, German University of Technology, Oman
- 2017-2019 Manager, Tender Department, Bauer Nimr LLC, Oman
- 2015-2019 Manager, Research & Development, Bauer Nimr LLC, Oman & Bauer Resources GmbH, Germany
- 2007-2011 Management of the Laboratory of Ecological Engineering and Technology, Department of Environmental Engineering, Democritus University of Thrace, Greece
- 2009 International conference organization: IWA International Conference "2nd International Conference on Water Economics, Finance and Statistics", Alexandroupolis, Greece, July 3-5
- 2009 International conference organization: IWA International Conference "Asset Management of Medium and Small Wastewater Utilities", Alexandroupolis, Greece, July 3-5
- 2005-2011 General Secretary, Cretans Association of Xanthi, Greece

- 2003-2005 Member of the Board, Radio station Group, Students Culture Association of Xanthi “Gefyra”, Democritus University of Thrace, Greece
- 2003-2005 Chair, Cretan Students Association in Xanthi, Democritus University of Thrace, Greece
- 2003-2004 Member of the Board, Students Culture Association of Xanthi “Gefyra”, Democritus University of Thrace, Greece
- 2002-2004 Representative of the Students Association of the Democritus University of Thrace to the General Assembly of the Department of Environmental Engineering, Greece

6. EDITORIAL POSITIONS

- 2021-present **Editor-in-Chief**, Book Series ‘Circular Economy and Sustainability’, Springer
- 2021-present **Topic Board**, Multidisciplinary Topic “Water and Soil Management in Adaption to Climate Change”, MDPI journals Remote Sensing, Sustainability, Water, Agriculture, and Climate.
- 2021-present **Editorial Board Member**, Nature-Based Solutions, Elsevier
- 2021-present **Associate Editor**, Ecological Engineering, Elsevier
- 2020-present **Editor-in-Chief**, Circular Economy and Sustainability, Springer
- 2020-present **Associate Editor**, Environmental Science and Pollution Research, Springer
- Guest editor**
- 2021 **Guest Editor**, Special Issue “Nature Based Solutions in the industrial sector”, Nature-Based Solutions, Elsevier
- 2021 **Guest Editor**, Special Issue “Advances in Water and Wastewater Treatment Processes”, Processes, MDPI
- 2020 **Guest Editor**, Special Issue “The Era of Circular Bio-economy”, Circular Economy and Sustainability, Springer
- 2020 **Guest Editor**, Special Issue “Strategies toward Green Deal Implementation - Water and Raw Materials”, Circular Economy and Sustainability, Springer
- 2020 **Guest Editor**, Special Issue “International Ecological Engineering: 2020 Symposium, Closed Cycles and the Circular Society”, Circular Economy and Sustainability, Springer
- 2020 **Guest Editor**, Special Issue “Inaugural Conference of the IS4CE”, Circular Economy and Sustainability, Springer
- 2020 **Guest Editor**, Special Issue “Sustainability in an Agro-Based Bioeconomy:

- Prospects and Challenges in a Post-Covid Era”, Circular Economy and Sustainability, Springer
- 2020 **Guest Editor**, Special Issue "Environmental Education and Green Behavior", Sustainability, MDPI
- 2020 **Guest Editor**, Special Issue "Advances in Processes Understanding and Designs of Constructed Wetlands Applied for Treatment of Various Wastewater Sources", Water, MDPI
- 2020 **Guest Editor**, Special Issue "Hybrid Systems Using Different Technologies for Wastewater Treatment and Reuse", Water, MDPI.
- 2019 **Guest Editor**, Special Issue "Experiences from Constructed Wetland Technology in Industrial Sector", Applied Sciences, MDPI.

7. DISTINCTIONS, HONORS AND AWARDS

- 2021-present **European Climate Pact Ambassador**, European Commission
- 2021 **National Research Award 2021**, Environmental and Biological Resources Section, The Research Council of the Sultanate of Oman. Research Project: Operational modifications of a full-scale experimental vertical flow constructed wetland with effluent recirculation to optimize total nitrogen removal. Funder by The Research Council (TRC) and Haya Water (Oman Water and Wastewater Services Company)
- 2021 **World's Top 2% Scientists**, inclusion in the ranking of the world's most cited researchers and those who are among the top 2% of more than six million scientists worldwide within their specialty areas. Based on bibliometric study by Baas, Boyak & Ioannidis (2021) of Stanford University (USA). Published in October 2021 by Elsevier.
- 2019-present **Regional Coordinator** for Africa & Middle East, Specialist Group "Wetland Systems for Water Pollution Control", International Water Association
- 2020 **Contributor** to Policy Brief "Nature-based solutions to climate change: towards a blue carbon economy future", Task Force 2 Climate Change and Environment, Saudi Arabia presidency of the G20 2020.
- 2020 **Invited Member** of the Advisory Panel, H2020 project NICE: Innovative and Enhanced Nature-based Solutions for Sustainable Urban Water Cycle
- 2020 **Invited Member** of the Enablers Advisory Board, H2020 WATERAGRI project
- 2020 **Editor's Choice Paper**, "Constructed Wetlands for Sustainable Wastewater

- Treatment in Hot and Arid Climates: Opportunities, Challenges and Case Studies in the Middle East”, *Water*, 12(6), 1665.
- 2019 **External Advisory Board Member** from the industry, Institutional Standards Assessment, Oman Academic Accreditation Authority. German University of Technology in Oman.
- 2018-2020 **Task Group Member**, Mainstreaming the Use of Treatment Wetlands, International Water Association (IWA), Workshop on the preparation of a new Wetlands STR, BOKU University, February 19-21, Vienna, Austria.
- 2017 **Scientist Team Award**, Oikopolis Awards.
Oikopolis Institution, Awards for Environmental Sensitivity. Voluntary Organization for the Urban Environment ECOCITY, June 1, Athens, Greece.
- 2016 **Invited Member**, Mid-career consultation group, International Water Association.
- 2016 **Best presentation Award**, Young Water Professionals Competition.
15th IWA International Conference on Wetland Systems for Water Pollution Control, September 4-9, Gdansk, Poland.
- 2015-2016 **Research Ambassador**
STM Digest Program, as an Early Career Researcher, Elsevier.
- 2012 **Young Scientist’s Research**, Oikopolis Awards
Oikopolis Institution, Awards for Environmental Sensitivity. Voluntary Organization for the Urban Environment ECOCITY, June 5, Onassis Foundation, Athens, Greece.
- 2009 **Honor Award** in Young Researchers Competition for the study: “An experimental study of activated sludge treatment in Sludge Drying Reed Beds”. Third AMIREG International Conference: Towards Sustainable Development: Assessing the footprint of resource utilization and hazardous waste management, September 7-9, Ionic Center, Athens, Greece

8. CONFERENCE, WORKSHOP AND PANEL INVITATIONS

8.1 Invited Presentations, Keynote & Plenary

1. “*Summary session: Water resources management in the Green Deal era*”, Invited Talk, Closing Session, 2nd International Conference ‘Strategies toward Green Deal

Implementation - Water, Raw Materials & Energy', Polish Academy of Sciences, Poland
10 December, 2021.

2. *"Case Studies of Nature-based Solutions for Sustainable Management of Municipal Wastewater"*, Invited Plenary speech, International Virtual Workshop 'Urban Water Security and Sanitation', U.S. National Science Foundation FEWSUS Project, University of Tennessee, Oak Ridge National Laboratory, USA, 16 November, 2021.
3. *"The role of Nature-based solutions for climate change adaptation"*, Invited Speech, Institute of Science and Environment, University of Saint Joseph, Macao, China, 28 October, 2021.
4. Pre-COP26 Knowledge-Exchange Dialogue on Joint Action for Climate, Nature, and People. Workshop "Food systems, water management, and agriculture". Co-organized by CIFAL York in partnership with German Development Institute (DIE) and the Synergies of Planetary Health Research Initiative & Lab, which receives generous support from the Dahdaleh Institute for Global Health Research; the Faculty of Liberal Arts & Professional Studies, SSHRC Knowledge-Mobilization Program, York University; York International and the UNESCO Chair in Reorienting Education towards Sustainability, 21 October, 2021.
5. *"The use of nature-based solutions for produced water treatment and reuse in the new circular economy context"*, Invited Speech, International Produced Water Management Conference & Exhibition – Africa, virtual, 21 October, 2021.
6. *"Olive mill wastewater management in the frame of circular economy"*, Invited Speech, 2nd online workshop "Environmental waste crime: actions and main issues in Crete", LIFE project "PROWhIBIT: Prevent of Waste Crime by Intelligence Based Inspections", 18 October, 2021.
7. Eco-Engineering panel discussion "Incentives and ecological engineering education: towards low carbon technologies", International Association for Impact Assessment – South Africa, "Re-thinking IEM in pursuit of the Sustainable Development Goals", 17-19 August, 2021.
8. *"Constructed Wetlands Case Studies for Sustainable Wastewater Management in Different Climates"*, Invited Speech, International Webinar, "Environmental Protection and restoration through developing circular lifestyle", Ghazi University, Dera Ghazi Khan-Pakistan, June 9, 2021.
9. *"Experiences and case studies of constructed wetlands for sustainable management of municipal wastewater in different climates"*, Invited Speech, U.S. National Science

- Foundation FEWSUS Project, The University of Tennessee (USA), Northeast Normal University (China), Czech University of Life Sciences in Prague (Czech Republic), May 28, 2021.
10. *“Constructed Wetlands for sustainable wastewater treatment and reuse: case studies and opportunities”*, Invited Lecture, Institute of Science and Environment, University of Saint Joseph, Macao, China, May 12, 2021.
 11. *“Overview of circular economy and constructed wetlands”*, Invited Speech, Learned Event series “Restore our Earth: Wetland Restoration through Circular Economy”, Society for the Conservation of the Philippines Wetlands, April 22, 2021.
 12. *“Nature-based solutions for sustainable wastewater management in the new circular economy paradigm”*, Invited Speech, Lecture Series of EURECA-PRO, The European University on Responsible Consumption and Production, University of Leoben, Austria, March 24, 2021.
 13. *“Natural Treatment System to Provide Sustainable Treatment Solution and Water Source in Arid Regions”*, Session ‘Water Reuse Practices in a Global Sustainability Perspective’, 36th Annual WateReuse Symposium ‘Resilience Redefined’, US WateReuse Association and The Water Research Foundation, March 1 – April 23, 2021.
 14. *“Constructed Wetlands for sustainable wastewater management”*, Invited Speech, One-day International Webinar “Wetland Systems” on the occasion of World Wetland Day 2021, Solapur University, Solapur, India, February 2, 2021.
 15. *“Wetland technology for sustainable wastewater treatment”*, Invited Speech, International Webinar commemorating World Wetland Day- Theme “Wetlands and Water”, Institute of Biomedical & Natural Sciences, Dehradun, India, February 2, 2021.
 16. *“Water Reuse for a Sustainable Industry: Challenges and Opportunities in a Circular Economy”*, Invited Panelist, horEYEzon Webinar organized by the Young Engineers/Future Leaders Committee of the World Federation of Engineering Organisations (WFEO) and European Young Engineers, January 26, 2020.
 17. *“Constructed Wetlands for sustainable wastewater management: applications and opportunities”*, 1st International Conference on Innovative Technologies for a Sustainable Environment (ICITSE2020), The 12th Annual National Convention of the Society of Environmental Engineers of the Philippines, Zoom Webinar, December 28, 2020.

18. *“Constructed Wetlands for wastewater treatment in hot and arid climates”*, 1st International Forum on Water Environment in Cold and Arid Regions - WECAR 2020, Lanzhou Jiaotong University, Lanzhou, China, October 16-18, 2020.
19. *“Examples of Nature-based solutions for sustainable and circular water management”*, Online Circular Economy Symposium, Federation of Indian Chambers of Commerce & Industry (FICCI), New Delhi, India, October 15-16, 2020.
20. *“Nature-Based Solutions for sustainable urban water management in a circular city”*, 13th annual online conference of the European Forum for Industrial Biotechnology & the Bioeconomy (EFIB), Austria, Vienna, October 5-7, 2020.
21. *“Circular Economy and Sustainability: working together for a sustainable society”*, European Forum for Industrial Biotechnology & the Bioeconomy (EFIB), Sustainability Dialogues Webinars: Bioprocesses & Technologies - The value of bio-based innovation for the industry, October 1, 2020.
22. *“Boosting sustainability in the oil & gas industry: treatment of produced water in a large Constructed Wetland in Oman, environmental benefits and reuse options”*, Cutting-Edge Water Technologies Showcase Conference, MEDRC, Muscat, Oman, December 2-3, 2019.
23. *“Adapting circular economy in the Oman industry: reuse of oilfield produced water ecologically treated in a Constructed Wetland for biosaline irrigation in the desert”*, 1st EU-GCC Workshop on the Energy-Water Nexus, Muscat, Oman, April 24-25, 2019.
24. *“Constructed wetlands – the Greek experiences”*, AquaNES Workshop Market Needs & Potential for Natural Water Treatment Systems in Greece & the Eastern Mediterranean, Athens, Greece, November 22, 2018.
25. *“The sustainable technology of Constructed Wetlands for low-cost, ecological wastewater treatment”*, Annual Health, Safety and Environmental Conference, Accra, Ghana, July 20, 2018.
26. *“Biosaline agriculture under desert climate using treated industrial effluents”*, Global Forum for Innovations in Agriculture, Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE, February 5-6, 2018.
27. *“Sustainable Wastewater Treatment Systems”*, Learned Event, Institution of Civil Engineers (ICE) and Oman Society of Engineers (OSC), Modern College of Business and Science, Muscat, Oman, November 14, 2017.
28. *“Constructed Wetlands for industrial wastewater treatment”*, 7th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, Montana, USA, August 21-25, 2017.

29. *“Constructed Wetlands as green infrastructure for wastewater management”*, International Workshop on Wastewater Treatment & Application, Cultural Center, Sultan Qaboos University, Muscat, Oman, March 22, 2017.
30. *“A case study of implementing ecological waste management in the industrial sector in Oman”*, 1st International Exhibition and Forum “Verdetec” Environmental Technologies, Mediterranean Exhibition Center, Athens, Greece, March 5, 2017.
31. *“Sustainable water management solutions in Oman”*, Oman 2016 Power & Water Summit, Oman Convention and Exhibition Center, Muscat, Oman, December 5-6, 2016.
32. *“Solutions to Environmental Problems in the Saudi Arabian Water Sector”*, Expert Workshop, German-Saudi Arabian Liaison Office for Economic Affairs, Asharqia Chamber of Commerce & Industry, Dammam, Saudi Arabia, October 2-3, 2016.
33. *“Wastewater Treatment in Oman: status and challenges”*, Oman Waste & Environmental Services Exhibition & Conference, Muscat, Oman, May 23–25, 2016.
34. *“Wetland technology and related sanitation issues”*, Department of Soils, Water & Agricultural Engineering, College of Agricultural & Marine Sciences, Sultan Qaboos University, October 16, 2016.
35. *“Constructed wetlands for effective sanitation in low-income regions”*, Workshop on new approaches to monitoring and managing waterborne disease transmission in Brazil and the UK, Researcher Links scheme offered within the Newton Fund, the British Council and FAPESP. Sao Paulo, Brazil, February 2-6, 2015.
36. *“Vertical Flow Constructed Wetlands for wastewater and sludge treatment”*, Workshop Integrated Management of Wastewater Sludge from Wastewater Treatment Plants and Wastewater Treatment with Natural Systems, Commercial and Industrial Chamber of Rodopi, Komotini, Greece, May 7, 2008.

8.2. Organizing and/or Chairing Sessions at International Conferences

- | | |
|------|--|
| 2021 | Parallel Session “Water resources management”, 2nd International Conference Strategies toward Green Deal implementation, Online, Polish Academy of Sciences, Poland, 8-10 December. |
| 2021 | Session 4 “Water pollution and wastewater treatment”, 7th International Conference on Water Resource and Environment – WRE 2021, Online, Bosen, I-Shou University & Xi’An University of Technology, China, 1-4 November. |

- 2021 Session 3D “Circular economy across plastics value chains – challenges and opportunities”, World Resources Forum 2021, Online – Ghana – Switzerland, 12 October.
- 2021 Session 1C “Primary and Secondary resources: climate change aspects”, World Resources Forum 2021, Online – Ghana – Switzerland, 12 October.
- 2021 Session S12.1B “How can nature-based solutions and wetland systems contribute to the transition to a circular society”, 9th International Symposium on Wetland Pollutant Dynamics and Control (WETPOL 2021 virtual), Boku University, Vienna, Austria, 14 September.
- 2021 Session S3 “Waste Characterization & Reuse”, 7th International Conference on Industrial & Hazardous Waste Management, Organized by Technical University of Crete, University of Padua, Hamburg University of Technology, Tsinghua University, & International Waste Working Group, Chania, Greece, 27-30 July.
- 2020 Session “*Bioeconomy*”, 1st International Conference “Strategies toward Green Deal Implementation - Water and Raw Materials (ICGreenDeal2020)”, National Center for Research and Development & Ministry of Climate and Environment, Poland, December 14-16.
- 2020 Session “*Cooperation for Climate*”, 1st International Conference “Strategies toward Green Deal Implementation - Water and Raw Materials (ICGreenDeal2020)”, National Center for Research and Development & Ministry of Climate and Environment, Poland, December 14-16.
- 2020 Session “Spotlight on sustainable living – The city of the future”, 13th annual online conference of the European Forum for Industrial Biotechnology & the Bioeconomy (EFIB), Austria, Vienna, October 5-7.
- 2019 Organizing and Chairing Special Session “*Constructed wetlands projects under hot and arid climates*”, 8th International Symposium on Wetland Pollutant Dynamics and Control - WETPOL, Aarhus, Denmark, June 17-21.
- 2019 Session “*Best Practices*”, Produced Water Society Middle East Conference 2019, Muscat, Oman, October 22-24.
- 2019 Session “*Constructed Wetland systems II*”, International symposium on Constructed Wetlands & Small Decentralized Wastewater Treatment Plants - DOMUS, Patras, Greece, August 29-31.

- 2018 Session “*Young Water Professionals session*”, 16th IWA International Conference on Wetland Systems for Water Pollution Control, Valencia, Spain, September 30 - October 1.
- 2018 Session “*Wetlands for Industrial Pollution Control*”, 16th IWA International Conference on Wetland Systems for Water Pollution Control, Valencia, Spain, September 30 - October 1.
- 2017 Session “*Wetlands for Industrial Pollution Control*”, 7th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, August 21-25, Montana, USA.
- 2017 Session “*Macro-Nutrient Cycling in Wetlands I*”, 7th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, August 21-25, Montana, USA.

9. PROFESSIONAL/SCIENTIFIC MEMBERSHIPS

- 2020-present International Society for Circular Economy
- 2020-present Hellenic Water Association
- 2020-present Panhellenic Association of Certified Environmental Engineers
- 2020-present Water Supply and Sanitation Collaborative Council
- 2019-present Middle East Water Forum
- 2019-present Produced Water Society
- 2018- present International Ecological Engineering Society
- 2013- present International Water Association
- 2014- present Constructed Wetlands Association
- 2013- present DWA, Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V.
- 2008- present Global Network on Environmental Science and Technology (Global Nest)
- 2007- present Technical Chamber of Greece

10. RESEARCH PROJECTS

1. *Constructed Wetlands optimization for landfill leachate treatment*
School of Environmental Engineering, Technical University of Crete, Greece (2020-2021)
2. *Mechanisms of selected macrophytes in the removal of bacterial and viral contaminants from wastewater.*

- Bindura University of Science Education, Zimbabwe & Technical University of Crete, Greece (2018-2019)
3. *Biogas feasibility study and trial using reeds biomass from Constructed Wetlands.*
Bauer Nimr LLC, Oman & Technical University of Hamburg-Harburg (TUHH), Germany (2019-2020)
 4. *Trial for hydroponic fodder production using treated wastewater from Nimr Water Treatment Plant.*
Bauer Nimr LLC, Oman & SWAC, USA (2019-2020)
 5. *Aquaculture feasibility study for Nimr Water Treatment Plant.*
Bauer Nimr LLC, Oman (2019)
 6. *Climate Impact Assessment of Nimr Water Treatment Plant.*
Bauer Nimr LLC, Oman & Laboratory of General and Agricultural Meteorology, Agricultural University of Athens, Greece. (2018-2019)
 7. *Evaluation of an artificial wetland for tannery wastewater treatment.*
Universidad Centrocidental Lisandro Alvarado, Project Number 030-AG-2014, Venezuela (2014-2017)
 8. *A 2-year scientific research trial on Jojoba plant cultivation at Nimr Water Treatment Plant.*
Bauer Nimr LLC, Oman & Egyptian Natural Oils Company, Egypt & Petroleum Development, Oman (2018-2019)
 9. *A pilot and full scale constructed wetland for glass industry wastewater treatment.*
Safety Glass Khorasan Glass Industry, Iran (2017-2018)
 10. *Monitoring the performance of the composting trial at Nimr Water Treatment Plant in Oman via laboratory measurements.*
Bauer Nimr LLC, Oman & Laboratory of Solids and Hazardous Waste Management, Department of Environmental Engineering, Democritus University of Thrace, Greece. (2017-2018)
 11. *Modelling the sustainability of crop irrigation with oil & gas produced water in drylands.*
Bauer Nimr LLC, Oman & Cranfield Water Science Institute, School of Water, Energy and Environment, Cranfield University, UK. (2017-2018)
 12. *Measurement and assessment of soil quality irrigated by treated produced water in Nimr Area.*
Bauer Nimr LLC, Oman & Department of Earth Sciences, College of Science, Sultan Qaboos University, Oman (2017-2019)

- 13.** *Agriculture & economic feasibility study on the agricultural use of wetland-treated produced water from oil production for cotton/ricinus cultivation in Oman.*
Bauer Nimr LLC, Oman & Ecotropic Consulting. Co-funded by Deutsche Investitions- und Entwicklungsgesellschaft GmbH, Germany (2016-2019)
- 14.** *Development of a novel design for a Mobile Containerized Constructed Wetland.*
Bauer Nimr LLC, Oman (2016-2017)
- 15.** *Investigation of horizontal roughing filter as polishing stage of effluents from wastewater treatment plants.*
German University of Technology in Oman & Binaloud University of Mashhad, Iran. (2016-2017)
- 16.** *Interactive effects of HPAM and salinity on wetland plant growth and ecophysiology.*
Bauer Nimr LLC, Oman & Department of Bioscience, Aarhus University, Denmark. (2015-2016)
- 17.** *Produced water biosaline agriculture research project in Nimr Water Treatment Plant.*
Bauer Nimr LLC, Oman & Petroleum Development Oman, Oman (2015 – 2018)
- 18.** *Development of an innovative Constructed Wetland for the treatment of agro-industrial wastewater.*
Fellowships of Excellence for Postgraduate Studies in Greece - Siemens Programme, State Scholarship Foundation (IKY), Greece. (2014 – 2016)
- 19.** *Wastewater treatment as a barrier to excreta-borne disease: removal of pathogens and novel indicator organisms in trickling filters and aerated reed beds.*
Research Investment Scheme (SETRIF), School of Environment and Technology, University of Brighton, UK (2015)
- 20.** *Wetland Systems for wastewater treatment: Performance evaluation of constructed wetlands treating water contaminated with phenol and m-cresol.*
Funded by British Petroleum (BP). Department of Environmental Microbiology, Helmholtz Centre for Environmental Research (UFZ), Germany (2012 – 2014)
- 21.** *SAFIRA II research program: revitalization of contaminated land – strategies and technologies.*
Department Environmental Biotechnology, Helmholtz Centre for Environmental Research (UFZ), Germany (2010-2014)
- 22.** Integrated treatment of cork processing wastewaters for potential reuse.

Portuguese Foundation for Science and Technology (FCT) & European Regional Development Fund in Portugal. Department of Civil Engineering and Architecture, Department of Chemistry, University of Beira Interior, Portugal (2012 – 2014)

- 23.** *Monitoring of rainwater quality from industrial areas of Alexandroupolis – Drama – Kavala – Orestiada – Sappes.*

Department of Environmental Engineering, Democritus University of Thrace, Greece (2011)

- 24.** *Simulation of groundwater flow.*

Department of Environmental Engineering, Democritus University of Thrace, Greece (2010 – 2011)

- 25.** *Hydrochemical investigation of surface and underground water of Perama region, Prefecture of Evros.*

Department of Environmental Engineering, Democritus University of Thrace, Greece (2010)

- 26.** *INTERREG IIIa: PHARE CBC Greece-Bulgaria “Program Application Services for Monitoring of the Surface and Underground Water of Nestos River Basin”.*

Department of Environmental Engineering, Democritus University of Thrace, Greece (2008)

- 27.** *Integrated management of wastewater sludge from wastewater treatment plants and wastewater treatment with natural systems.*

GSRT – Third Community Support Framework 2000-2006, O.P. Eastern Macedonia – Thrace. Department of Environmental Engineering, Democritus University of Thrace, Greece (2007 – 2008)

- 28.** *INTERREG III Mediterranean Initiatives Development in Agriculture (MIDA).*

Department of Civil Engineering, Democritus University of Thrace, Greece (2007)

- 29.** *Current trends in spatial analysis: urban automata, klasmatomorfic sets and fuzzy logic.*

Department of Civil Engineering, Democritus University of Thrace, Greece (2007)

- 30.** *E.U. project: Restoration of historic centers and urban design.*

Department of Civil Engineering, Democritus University of Thrace, Greece (2007)

11. PUBLICATIONS

11.1 Scientific Peer-Review Journals

- 1.** Zahui, F.M., Quattara, J.M.P., Kamagate, M., Coulibaly, L., **Stefanakis, A.I.**, 2021. Effect of Plant Species on the Performance and Bacteria Density Profile in Vertical Flow

- Constructed Wetlands for Domestic Wastewater Treatment in a Tropical Climate. *Water* 13(24), 3485; <https://doi.org/10.3390/w13243485>.
2. Oral, H.V., Radinja, M., Rizzo, A., Kearney, K., Andersen, T.R., Krzeminski, P., Buttiglieri, G., Ayrál-Cinar, D., Comas, J., Gajewska, M., Hartl, M., Finger, D.C., Kazak, J.K., Mattila, H., Vieira, P., Piro, P., Palermo, S.A., Turco, M., Pirouz, B., **Stefanakis, A.I.**, Regelsberger, M., Ursino, N., Carvalho, P.N., 2021. Management of Urban Waters with Nature-Based Solutions in Circular Cities - Exemplified through Seven Urban Circularity Challenges. *Water* 13(23), 3334; <https://doi.org/10.3390/w13233334>.
 3. Gholipour, A., **Stefanakis, A.I.**, 2021. A full-scale anaerobic baffled reactor and hybrid constructed wetland for university dormitory wastewater treatment and reuse in an arid and warm climate. *Ecological Engineering* 170, 106360. [IF: 4,035]
 4. Dale, G., Dotro, G., Srivastava, P., Austin, D., Hutchinson, S., Head, P., Goonetilleke, A., **Stefanakis, A.I.**, Junge, R., Fernández L., J.A., Weyer, V., Truter, W., Bühler, D., Bennett, J., Liu, H., Li, Z., Du, J., Schneider, P., Hack, J., Schönborn, A., 2021. Education in Ecological Engineering - a Need Whose Time Has Come. *Circular Economy and Sustainability* 1, 333-373, <https://doi.org/10.1007/s43615-021-00067-4>.
 5. Mozaffari, M.H., Shafiepour, E., Mirbagheri, S.A., Rakhshandehroo, G., Wallace, S., **Stefanakis, A.I.**, 2021. Hydraulic characterization and removal of metals and nutrients in an aerated horizontal subsurface flow “racetrack” wetland treating oil industry effluent. *Water Research* 200, 117220. [IF: 11.236]
 6. Šereš, M., Innemanová, P., Hnátková, T., Rozkošný, M., **Stefanakis, A.I.**, Semerád, J., Cajthaml, T., 2021. Evaluation of Hybrid Constructed Wetland Performance and Reuse of Treated Wastewater in Agricultural Irrigation. *Water* 13(9), 1165, <https://doi.org/10.3390/w13091165>. [IF: 3.103]
 7. **Stefanakis, A.I.**, Calheiros, CSC, Nikolaou, I., 2021. Nature-Based Solutions as a Tool in the New Circular Economic Model for Climate Change Adaptation. *Circular Economy and Sustainability* 1, 303-318, <https://doi.org/10.1007/s43615-021-00022-3>.
 8. Nikolaou, I.E., Jones, N., **Stefanakis, A.I.**, 2021. Circular Economy and Sustainability: the Past, the Present and the Future Directions. *Circular Economy and Sustainability* 1, 1-20, <https://doi.org/10.1007/s43615-021-00030-3>.
 9. Calheiros, CSC, **Stefanakis, A.I.**, 2021. Green Roofs Towards Circular and Resilient Cities. *Circular Economy and Sustainability* 1, 395-411, <https://doi.org/10.1007/s43615-021-00033-0>.

10. Al-Wahaibi, B., Jafary, T., Al-Mamun, A., Baawain, M.S., Aghbashio, M., Tabatabaei, M., **Stefanakis, A.I.**, 2021. Operational modifications of a full-scale experimental vertical flow constructed wetland with effluent recirculation to optimize total nitrogen removal. *Journal of Cleaner Production* 296, 126558, <https://doi.org/10.1016/j.jclepro.2021.126558>. [IF: 9.297]
11. Gaballah, M.S., Ismail, K., Aboagye, D., Ismail, M.M., Sobhi, M., **Stefanakis, A.I.**, 2021. Effect of design and operational parameters on nutrients and heavy metals removal in pilot Floating Treatment Wetlands with *Eichhornia Crassipes* treating polluted lake water. *Environmental Science and Pollution Research*, <https://doi.org/10.1007/s11356-021-12442-7>. [IF: 4.223]
12. Echchelh, A., Hess, T., Sakrabani, R., Prigent, S., **Stefanakis, A.I.**, 2021. Towards agro-environmentally sustainable irrigation with treated produced water in hyper-arid environments. *Agricultural Water Management* 243, 106449. [IF: 4.516]
13. Nielsen, S., **Stefanakis, A.I.**, 2020. Sustainable Dewatering of Industrial Sludges in Sludge Treatment Reed Beds: Experiences from Pilot and Full-Scale Studies under Different Climates. *Applied Sciences* 10 (21), <https://doi.org/10.3390/app10217446>. [IF: 2.679]
14. Gomes, A.C., Silva, L., Albuquerque, A., Simões, R., **Stefanakis, A.I.**, 2020. Treatment of cork boiling wastewater using a horizontal subsurface flow constructed wetland combined with ozonation. *Chemosphere* 260, 127598. [IF: 7.086]
15. Alufasi, R., Parawira, W., **Stefanakis, A.I.**, Lebea, P., Chakauya, E., Chingwaru, W., 2020. Internalisation of *Salmonella* spp. by *Typha latifolia* and *Cyperus papyrus* in vitro and implications for pathogen removal in Constructed Wetlands. *Environmental Technology* 1-35, <https://doi.org/10.1080/09593330.2020.1811395>. [IF: 3.247]
16. **Stefanakis, A.I.**, 2020. Constructed Wetlands for Sustainable Wastewater Treatment in Hot and Arid Climates: Opportunities, Challenges and Case Studies in the Middle East. *Water* 12 (6), 1665, <https://doi.org/10.3390/w12061665>. [IF: 3.103]
17. Gholipour A., Zahabi H., **Stefanakis A.I.**, 2020. A novel pilot and full-scale constructed wetland study for glass industry wastewater treatment. *Chemosphere* 247, 125966. [IF: 7.086]
18. **Stefanakis, A.I.**, 2020. The Fate of MTBE and BTEX in Constructed Wetlands. *Applied Sciences* 10, 127; doi:10.3390/app10010127. [IF: 2.679]
19. **Stefanakis, A.I.**, 2019. The Role of Constructed Wetlands as Green Infrastructure for Sustainable Urban Water Management. *Sustainability* 11 (24), 6981, <https://doi.org/10.3390/su11246981>. [IF: 3.251]

20. Muñoz, C., Gómez, G., **Stefanakis, A.I.**, Plaza de los Reyes, C., Vera-Puerto, I., Vidal, G., 2019. Aromatic compounds and organic matter behavior in pilot Constructed Wetlands treating *Pinus Radiata* and *Eucalyptus Globulus* sawmill industry leachate. *Applied Sciences* 9 (23), 5046, doi.org/10.3390/app9235046. [IF: 2.679]
21. Daeë, M., Gholipour, A., **Stefanakis, A.I.**, 2019. Performance of pilot Horizontal Roughing Filter as polishing stage of waste stabilization ponds in developing regions and modelling verification. *Ecological Engineering* 138, 8-18. [IF: 4,035]
22. Ramírez S., Torrealba G., Lameda-Cuicas E., Molina-Quintero L., **Stefanakis A.I.**, Pire-Sierra M.C., 2019. Investigation of pilot-scale Constructed Wetlands treating simulated pre-treated tannery wastewater under tropical climate. *Chemosphere* 234, 496-504 [IF: 7.086].
23. **Stefanakis, A.I.**, Bardiau, M., Silva, D., Taylor, H., 2019. Presence of bacteria and bacteriophages in full-scale trickling filters and an aerated constructed wetland. *Science of the Total Environment* 659, 1135–1145. [IF: 7.963]
24. Gomes, A.C., Silva, L., Albuquerque, A., Simões, R., **Stefanakis, A.I.**, 2018. Investigation of lab-scale horizontal subsurface flow constructed wetlands treating industrial cork boiling wastewater. *Chemosphere* 207, 430-439. [IF: 7.086]
25. Schultze-Nobre, L., Wiessner, A., Bartsch, C., Paschke, H., **Stefanakis, A.I.**, Aylward, L.A., Kusch, P., 2017. Removal of dimethylphenols and ammonium in laboratory-scale horizontal subsurface flow Constructed Wetlands. *Engineering in Life Sciences* 17 (12), 1224-1233. [IF: 2.678]
26. Tatoulis, T., Akratos, 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, 257-268. [IF: 7.086]
27. Tatoulis, T., **Stefanakis, A.I.**, Frontistis, Z., Akratos, C.S., Tekerlekopoulou, A.G., Mantzavinos, D., Vayenas, D.V., 2017. Treatment of table olive washing water using trickling filters, constructed wetlands and electrooxidation. *Environmental Science and Pollution Research*, 1-8. DOI 10.1007/s11356-016-7058-6. [IF: 4.223]
28. **Stefanakis, A.I.**, Seeger, E., Dorer, C., Sinke, A., Thullner, M., 2016. Performance of pilot-scale horizontal subsurface flow constructed wetlands treating groundwater contaminated with phenols and petroleum derivatives. *Ecological Engineering* 95, 514-526. [IF: 4.035]

29. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2012. Heavy metal fate in pilot-scale Sludge Drying Reed Beds under various design and operation conditions. *Journal of Hazardous Materials* 213-214, 393-405. [IF: 10.588]
30. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2012. Use of zeolite and bauxite as filter media treating the effluent of Vertical Flow Constructed Wetlands. *Microporous and Mesoporous Materials* 155, 106-116. [IF: 5.455]
31. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2012. Effects of loading, resting period, temperature, porous media, vegetation and aeration on performance of pilot-scale Vertical Flow Constructed Wetlands. *Chemical Engineering Journal* 181-182, 416-430. [IF: 13.273]
32. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2012. Effect of various design and operation parameters on performance of pilot-scale Sludge Drying Reed Beds. *Ecological Engineering* 38, 65-78. [IF: 4.035]
33. **Stefanakis, A.I.**, Komilis, D., Tsihrintzis, V.A., 2011. Stability and maturity of thickened wastewater sludge treated in pilot-scale Sludge Treatment Wetlands. *Water Research* 45, 6441 - 6452. [IF: 11.236]
34. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2011. Dewatering mechanisms in pilot-scale Sludge Drying Reed Beds: effect of design and operational parameters. *Chemical Engineering* 172 (1), 430-443. [IF: 13.273]
35. **Stefanakis, A.I.**, Akrotos, C.S., Tsihrintzis, V.A., 2011. Effect of wastewater step-feeding on removal efficiency of pilot-scale horizontal subsurface flow Constructed Wetlands. *Ecological Engineering* 37 (3), 431-443. [IF: 4.035]
36. **Stefanakis, A.I.**, Akrotos, C.S., Melidis, P., Tsihrintzis, V.A., 2009. Surplus activated sludge dewatering in pilot-scale Sludge Drying Reed Beds. *Journal of Hazardous Materials* 172 (2-3), 1122-1130. [IF: 10.588]
37. **Stefanakis, A.I.**, Akrotos, C.S., Gikas, G.D., 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 (1-3), 131-143. [IF: 5.455]
38. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2009. Effect of outlet water level raising and effluent recirculation on removal efficiency of pilot-scale horizontal subsurface flow Constructed Wetlands. *Desalination* 248 (1-3), 961-976. [IF: 9.501]

39. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2009. Performance of pilot-scale Vertical Flow Constructed Wetlands treating wastewater: effect of various design parameters. *Desalination* 248 (1-3), 753-770. [IF: 9.501]

11.2 Books

1. **Stefanakis, A.I.** and Nikolaou, I., 2021. *Circular Economy and Sustainability - Management and Policy, Volume I.* Elsevier Publishing, Amsterdam, The Netherlands, September.
2. **Stefanakis, A.I.** and Nikolaou, I., 2021. *Circular Economy and Sustainability - Environmental Engineering, Volume II.* Elsevier Publishing, Amsterdam, The Netherlands, September.
3. **Stefanakis, A.I.**, 2018. *Constructed Wetlands for industrial wastewater treatment*, first ed. John Wiley & Sons Ltd, Chichester, UK.
4. **Stefanakis, A.I.**, Akratos, C.S., Tsihrintzis, V.A., 2014. *Vertical Flow Constructed Wetlands: eco-engineering systems for wastewater and sludge treatment*, first ed. Elsevier Publishing, Amsterdam, The Netherlands.

11.3 Book Chapters

1. **Stefanakis, A.I.**, 2021. Nature-based solutions for water pollution control: promoting environmental education through case studies. In: C. Vasconcelos, C. Calheiros (eds.), *Enhancing environmental education through nature-based Solutions.* Springer Nature.
2. Nikolaou, I. and **Stefanakis, A.I.**, 2021. A review of Circular Economy literature through a threefold level framework and engineering-management approach. In: A.I. Stefanakis, I., Nikolaou (eds.), *Circular Economy and Sustainability, Volume I.* Elsevier Publishing.
3. **Stefanakis, A.I.**, 2021. A circular model for sustainable produced water management in the oil and gas industry. In: A.I. Stefanakis, I., Nikolaou (eds.), *Circular Economy and Sustainability, Volume II.* Elsevier Publishing.
4. Van Tran, S., Nguyen, K.M., Nguyen, H.T., **Stefanakis, A.I.**, Nguyen, P.M., 2021. Food processing wastes as a potential source of adsorbent for toxicants removal from water. In: A.I. Stefanakis, I., Nikolaou (eds.), *Circular Economy and Sustainability, Volume II.* Elsevier Publishing.
5. **Stefanakis, A.I.**, 2021. A Two-Stage Constructed Wetland Design Integrating Artificial Aeration and Sludge Mineralization for Municipal Wastewater Treatment. In: R. Prasad

- (ed.), *Environmental Pollution and Remediation*. Springer Nature Singapore Private Ltd, pp. 195-211.
6. **Stefanakis, A.I.**, 2021. Promoting sustainability in the oil industry: The benefits of using Constructed Wetlands for oily wastewater treatment. In: C. Davis, E. Rosenblum (eds.), *Sustainable Industrial Water Use: Perspectives, Incentives, and Tools*. International Water Association – IWA Publishing, London UK, pp. 423-430.
 7. Ioannidou, V., **Stefanakis A.I.**, 2020. The Use of Constructed Wetlands to Mitigate Pollution from Agricultural Runoff. In: Naeem et al. (eds), *Contaminants in Agriculture: Sources, Impacts and Management*, Springer Nature, Switzerland, pp. 233-246.
 8. **Stefanakis, A.I.**, 2020. Constructed Wetlands: description and benefits of an eco-tech water treatment system. In: Khosrow-Pour, M. (Ed.), *Waste Management: Concepts, Methodologies, Tools, and Applications*. IGI Global, Hershey PA, USA, pp. 503-525.
 9. Steen Nielsen, **Alexandros Stefanakis**, 2019. Sludge Treatment Wetlands. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 54-56.
 10. **Alexandros Stefanakis**, 2019. Industrial Wastewater Treatment - General considerations. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 35-37.
 11. **Alexandros Stefanakis**, 2019. Industrial Wastewater Treatment - Hydrocarbons Removal. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 57-58.
 12. **Alexandros Stefanakis**, 2019. Large-Scale Wetlands. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 63-65.
 13. Bernhard Pucher, Riccardo Bresciani, Fabio Masi, Vit Rous, **Alexandros Stefanakis**, Günter Langergraber, 2019. Vertical Flow Constructed Wetlands. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 84-90.

14. **Alexandros Stefanakis**, Tom Headley, 2019. Free Water Surface Constructed Wetlands. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 97-100.
15. Steen Nielsen and **Alexandros Stefanakis**, 2019. Sludge Treatment Wetlands. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 101-104.
16. Scott Wallace, Dion van Oirschot, **Alexandros Stefanakis**, 2019. Aerated Wetlands. *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 105-107.
17. **Alexandros Stefanakis**, Stephane Prigent, Roman Breuer, 2019. Case study 4 – Nimr Water Treatment Plant (Oman). *Wetland Technology - Practical Information on the Design and Application of Treatment Wetlands*. Scientific and Technical Report Series No. 27, International Water Association, IWA Publishing, London, UK, pp. 134-135.
18. **Stefanakis, A.I.**, 2018. Constructed Wetlands case studies for the treatment of water polluted with fuel and oil hydrocarbons, in: Ansari, A.A., Gill, S.S., Gill, R., Lanza, G., Newman, L. (Eds.), *Phytoremediation, Vol. 6*, Springer International Publishing, Switzerland, pp 151-167.
19. **Stefanakis, A.I.**, 2018. Introduction to Constructed Wetland Technology, in: Stefanakis, A.I. (ed.), *Constructed Wetlands for industrial wastewater treatment*. John Wiley & Sons Ltd, Chichester, UK, pp. 1-21.
20. **Stefanakis, A.I.**, Prigent, S., Breuer, R., 2018. Integrated produced water management in a desert oilfield using wetland technology and innovative reuse practices, in: Stefanakis, A.I. (ed.), *Constructed Wetlands for industrial wastewater treatment*. John Wiley & Sons Ltd, Chichester, UK, pp. 25-42.
21. Thullner, M., **Stefanakis, A.I.**, Dehestani, S., 2018. Constructed Wetlands treating water contaminated with organic hydrocarbons, in: Stefanakis, A.I. (ed.), *Constructed Wetlands for industrial wastewater treatment*. John Wiley & Sons Ltd, Chichester, UK, pp. 43-63.
22. Masi, F., Rizzo, A., Bresciani, R., Vayenas, D., Akrotos, C.S., Tekerlekopoulou, A., **Stefanakis, A.I.**, 2018. Olive mill wastewater treatment in constructed wetlands, in:

- Stefanakis, A.I. (ed.), *Constructed Wetlands for industrial wastewater treatment*. John Wiley & Sons Ltd, Chichester, UK, pp. 165-174.
23. Akratos, C.S., van Oirschot, D., Tekerlekopoulou, A.G., Vayenas, D.V., **Stefanakis, A.I.**, 2018. Dairy wastewater treatment with Constructed Wetlands: experiences from Belgium, the Netherlands and Greece, in: Stefanakis, A.I. (ed.), *Constructed Wetlands for industrial wastewater treatment*. John Wiley & Sons Ltd, Chichester, UK, pp. 175-202.
24. Gomes, A.C., **Stefanakis, A.I.**, Albuquerque, A., Simões, R., 2018. Cork Boiling Wastewater treatment in pilot Constructed Wetlands, in: Stefanakis, A.I. (ed.), *Constructed Wetlands for industrial wastewater treatment*. John Wiley & Sons Ltd, Chichester, UK, pp. 285-308.
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29. **Stefanakis, A.I.** and Thullner, M., 2016. Fate of phenolic compounds in Constructed Wetlands treating contaminated water, in: Ansari, A.A., Gill, S.S., Gill, R., Lanza, G., Newman, L. (Eds.), *Phytoremediation, Vol. 4*, Springer International Publishing, Switzerland, pp. 311-325.
30. **Stefanakis, A.I.**, and Akratos C.S., 2016. Removal of pathogenic bacteria in Constructed Wetlands: mechanisms and efficiency, in: Ansari, A.A., Gill, S.S., Gill, R., Lanza, G.,

- Newman, L. (Eds.), *Phytoremediation, Vol. 4*, Springer International Publishing, Switzerland, pp. 327-346.
31. **Stefanakis, A.I., 2016.** Constructed Wetlands: description and benefits of an eco-tech water treatment system, in: McKeown, A.E., Bugyi, G. (Eds.), *Impact of Water Pollution on Human Health and Environmental Sustainability*. Information Science Reference (an imprint of IGI Global), Hershey PA, USA, pp. 281-303.
 32. **Stefanakis, A.I. and Becker, J.A., 2016.** A review of emerging contaminants in water: classification, sources and potential risks, in: McKeown, A.E., Bugyi, G. (Eds.), *Impact of Water Pollution on Human Health and Environmental Sustainability*. Information Science Reference (an imprint of IGI Global), Hershey PA, USA, pp. 55-80.
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 35. **Stefanakis, A.I., 2015.** Modern water reuse technologies, in: Eslamian, S. (Ed.), *Handbook of urban water reuse*. CRC Press, Taylor and Francis Group, Boca Raton FL, USA, pp. 371-382.
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 38. **A.I. Stefanakis**, C.S. Akratos and V.A. Tsihrintzis, 2008. Pilot-scale Vertical Flow Constructed Wetland units for activated sludge treatment – wastewater treatment using Vertical Flow Constructed Wetlands. In V. Tsihrintzis, P. Gkikas, A. Aggelakis (eds.), *Biosolids Management with emphasis in the legislation in International and National*

level. Special issue of the municipal enterprises' union for water supply and sewerage, pp. 115-123.

11.4 Conference Abstracts & Presentations

- 1. Stefanakis, A.I.,** Mohammad-Hosein Mozaffari, 2021. *A novel aerobic constructed wetland for oil refinery wastewater treatment and reuse*. 2nd International Conference Strategies toward Green Deal implementation, Online, Polish Academy of Sciences, Poland, 8-10 December.
- 2. Stefanakis, A.I.,** 2021. *Nature-based solutions case studies for the circular management of industrial effluents*. World Resources Forum 2021, Online – Ghana – Switzerland, 12-14 October, 2021.
- 3. Stefanakis, A.I.,** 2021. *The use of nature-based solutions for circular management and reuse of oily produced water in the oil and gas industry*. International Conference and Exhibition 'REMTECH EUROPE' on Remediation, Coasts, Floods, Climate, Seismic, Regeneration, Industry, virtual, 20-24 September, 2021
- 4. Stefanakis, A.I.,** 2021. *Examples and case studies of nature-based solutions for water circularity in different climatic and social contexts*. 9th International Symposium on Wetland Pollutant Dynamics and Control (WETPOL 2021 virtual), Boku University, Vienna, Austria, 13-17 September, 2021.
- 5. Stefanakis, A.I.,** Evangelou, A., Komilis, D., 2021. *Compost production using reed biomass from a constructed wetland treating oilfield produced water*. 7th International Conference on industrial & hazardous waste management, Chania, Greece, 27-30 July.
- 6. Stefanakis, A.I.** and Nikolaou, I., 2021. *Circular Economy as a tool to achieve sustainability: key pillars and the need for interdisciplinarity*. Workshop "Making the Circular Economy work for Sustainability: From theory to practice", Ferrara & Rovigo, Italy, February 23-25.
- 7. Stefanakis, A.I.,** 2020. *Nature-based solutions for sustainable water management in the European Green Deal: examples and opportunities*. 1st online International Conference "Strategies toward Green Deal Implementation - Water and Raw Materials (ICGreenDeal2020)", National Center for Research and Development & Ministry of Climate and Environment, Poland, December 14-16, 2020.
- 8. Stefanakis, A.I.,** 2020. *The role of nature-based solutions as a tool for sustainable resources management in a circular city*. Interdisciplinary Circular Economy Conference 2020, University of Freiburg, Freiburg, Germany, November 30 - December 3.

9. **Stefanakis, A.I.**, 2020. *The role of nature-based solutions to promote water circularity in the industrial sector: examples from Oman and Iran*. Closed Cycles and Circular Society Symposium, International Ecological Engineering Society (IEES), hosted virtually by Zurich University of Applied Science (ZHAW), Waedenswil, Switzerland, 2-4 September.
10. **Stefanakis, A.I.**, 2020. *Promoting circular water economy in the industrial sector using nature-based solutions: case studies from Oman and Iran*. Inaugural Conference of the International Society for the Circular Economy – IS4CE, hosted digitally by Linköping University, Sweden, 6-7 July.
11. **Stefanakis, A.I.**, 2020. *Using nature-based solutions for wastewater management and reuse in the circular water economy: examples from different industries*. INFER - International Network for Economic Research, Online Symposium on Circular Economy and Sustainability, Alexandroupolis, Greece, 1-3 July.
12. **Stefanakis, A.I.**, 2019. *Boosting sustainability in the oil & gas industry: treatment of produced water in a large Constructed Wetland in Oman, environmental benefits and reuse options*. Produced Water Society Middle East Conference 2019, Muscat, Oman, October 22-24.
13. **Stefanakis, A.I.**, 2019. *Treatment of contaminated effluent from the oil industry in a large Constructed Wetland system*. International symposium on Constructed Wetlands & Small Decentralized Wastewater Treatment Plants - DOMUS, Patras, Greece, August 29-31.
14. **Stefanakis, A.I.**, 2019. *Dewatering mechanisms in pilot-scale Sludge Treatment Reed Beds in the north Mediterranean region*. 8th International Symposium on Wetland Pollutant Dynamics and Control - WETPOL, Aarhus, Denmark, June 17-21.
15. **Stefanakis, A.I.**, 2019. *Constructed Wetlands for municipal and industrial wastewater treatment in middle east: an overview*. 8th International Symposium on Wetland Pollutant Dynamics and Control - WETPOL, Aarhus, Denmark, June 17-21.
16. **Stefanakis, A.I.**, 2019. *Reedbox: an innovative compact, mobile Constructed Wetland unit for wastewater treatment*. Oman Water & Wastewater Conference 2019, Oman Convention & Exhibition Centre, Muscat, Oman, April 22-24.
17. **Stefanakis, A.I.** and Prigent, S., 2018. *A novel two-stage Constructed Wetland with integrated sludge management and artificial aeration to meet strict effluent quality standards*. 16th IWA International Conference on Wetland Systems for Water Pollution Control, Valencia, Spain, September 30 - October 1.

18. **Stefanakis, A.I.**, Charalampopoulos, I., Psomiadis, E., Prigent, S., 2018. *The thermal regime of a large Constructed Wetland in the desert environment*. 16th IWA International Conference on Wetland Systems for Water Pollution Control, Valencia, Spain, September 30 - October 1.
19. Echchelh, A., Hess, T., Sakrabani, R., Prigent, S., **Stefanakis, A.I.**, 2018. *Sustainable reuse of wetland-treated oilfield produced water for agricultural irrigation in hyper-arid environment*. International Water Association Regional Conference on Water Reuse and Salinity Management, Murcia, Spain, June 11-15.
20. **Stefanakis, A.I.**, Al-Hadrami, A., Prigent, P., 2017. *Treatment of produced water from oilfield in a large Constructed Wetland: 6 years of operation under desert conditions*. 7th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, Montana, USA, August 21-25.
21. **Stefanakis, A.I.**, Al-Hadrami, A., Prigent, S., 2017. *Reuse of oilfield produced water treated in a Constructed Wetland for saline irrigation under desert climate*. 7th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, Montana, USA, August 21-25.
22. Al Shidi, M., Prigent, S., **Stefanakis, A.I.**, Philip, G., Qayum, S., Muhammad, N., Maraiyesa, O., 2017. *Treatment of polymer contaminated produced water in a constructed wetland*. 2nd Middle East Oilfield Produced Water Conference and Exhibition, Muscat, Oman, February 13-15.
23. Prigent, S., Al-Hadrami, A., Headley, T., Al-Harrasi, W., **Stefanakis, A.I.**, 2016. *The reuse of Wetland-treated oilfield produced water for saline irrigation*. International Conference of the International Desalination Association (IDA) on Water Reuse and Recycling, Nice, France, September 25-27.
24. **Stefanakis, A.I.**, Prigent, S., Hartl, M., Warnt-Murray, M., Headley, T., 2016. *Growth characteristics of five plant species in Surface Flow Constructed Wetlands treating produced water from an oil field*. 15th IWA International Conference on Wetland Systems for Water Pollution Control, Gdansk, Poland, Vol II, p. 1018-1030, September 4-9.
25. Prigent, S., **Stefanakis, A.I.**, 2016. *Constructed Wetlands for sewage wastewater treatment in remote settlements in Oman*. Oman Water & Energy Exhibition & Conference, Oman Convention & Exhibition Centre, Muscat, Oman. May 23-25.
26. **Stefanakis, A.I.**, Bardiau, M., Trajano, D., Couceiro, F., Williams, J., Caplin, J., Taylor, H., 2015. *Removal of indicator bacteria and bacteriophages in a full-scale Trickling Filter – Aerated Constructed Wetland wastewater treatment plant*. 18th International

- Symposium on Health-related Water Microbiology - WaterMicro2015, Lisbon, Portugal, September 13-19.
27. Bardiau, M., Trajano, D., Taylor, H., Caplin, J., **Stefanakis, A.I.**, 2015. *Removal of antibiotic resistant bacteria in a wastewater treatment plant*. Learned Society Partnership on Antimicrobial Resistance, Antimicrobial resistance: environments, evolution and transmission, Networking workshops for researchers. Charles Darwin House, London, UK, June 25.
 28. Tatoulis, T., **Stefanakis, A.I.**, Akratos, C.S., Tekerlekopoulou, A.G., Gianni, A., Zacharias, I., Vayenas, D.V., 2015. *Treatment of agro-industrial wastewaters using novel horizontal subsurface constructed wetlands*. 6th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, York, UK, September 13-18.
 29. Silva, W., Gomes, A., Simões, R., Pascoa, R., Albuquerque, A., **Stefanakis, A.I.**, 2015. *A lab-scale Constructed Wetland for wastewater treatment of the cork processing industry*. 6th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, York, UK, September 13-18.
 30. Tatoulis, T., **Stefanakis, A.I.**, Akratos, C.S., Tekerlekopoulou, A.G., Vayenas, D.V., 2015. *Treatment of table olive washing waters using horizontal subsurface flow constructed wetlands*. Sustainable Solutions to Wastewater Management: Maximizing the Impact of Territorial Co-operation - Waste-Net2015, Kavala, Greece, June 19-12.
 31. Tatoulis, T., **Stefanakis, A.I.**, Akratos, C.S., Tekerlekopoulou, A.G., Gianni, A., Zacharias, I., Vayenas, D.V., 2015. *A novel horizontal subsurface flow constructed wetland for the treatment of cheese-whey*. Sustainable Solutions to Wastewater Management: Maximizing the Impact of Territorial Co-operation - Waste-Net2015, Kavala, Greece, June 19-12.
 32. **Stefanakis, A.I.**, Seeger, E., Hübschmann, T., Müller, S., Sinke, A., Thullner, M., 2013. *Investigation of phenol and m-cresol biodegradation in horizontal subsurface flow Constructed Wetlands*. 5th International Symposium on Wetland Pollutant Dynamics and Control - WETPOL, Nantes, France, October 13-17.
 33. Santos, D., Silva, W., Gomes, A., Simões, R., Pascoa, R., Albuquerque, A., **Stefanakis, A.I.** 2012. *Treatment of cork processing industrial effluent with an innovative system of Constructed Wetland and Ozonation*. Symposium on Sustainable Processes and Materials, Research Group on Textile and Paper Materials, University of Beira Interior, Covilhã, Portugal, December 6-7.

34. Papaevangelou, V.A., Gikas, G.D., **Stefanakis, A.I.**, Tsihrintzis, V.A., 2010. *Estimation of evapotranspiration in pilot-scale Horizontal Subsurface Flow Constructed Wetlands*. International Conference “Protection and Restoration of the Environment X”, Corfu, Greece, 28 June – 2 July.
35. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2010. *Assessment of evapotranspiration in Vertical Flow Constructed Wetlands for sludge dewatering*. International Conference “Small and Decentralized Water and Wastewater Treatment Plants, SWAT III”, Skiathos, Greece, May 14-16.
36. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2009. *An experimental study of activated sludge treatment in Sludge Drying reed Beds*. 3rd AMIREG International Conference “Towards Sustainable Development: Assessing the footprint of resource utilization and hazardous waste management”, Athens, Greece, September 7-9.
37. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2009. *Comparison of different substrate media on the performance of Vertical Flow Constructed Wetlands*. 11th International Conference on Environmental Science and Technology – CEST, Chania, Greece, September 3-5.
38. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2009. *Use of various substrates as filter media to treat the effluent of a Vertical Flow Constructed Wetland*. International Water Association Conference “Asset Management of Medium and Small Wastewater Utilities”, Alexandroupolis, Greece, July 3-4, pp. 257-265.
39. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2009. *Examination of two wastewater step-feeding schemes in enhancing the performance of a Horizontal Subsurface Flow Constructed Wetland*. 2nd International Conference on Environmental Management, Engineering, Planning, and Economics, CEMEPE & SECOTOX, Mykonos, Greece, June 21-26.
40. **Alexandros I. Stefanakis** and Vassilios A. Tsihrintzis, 2009. *Natural Zeolite (Clinoptilolite) Filters for the effluent treatment of two pilot-scale Horizontal Subsurface Flow Constructed Wetlands*. Joint Conference of the Greek Hydrotechnical Union and the Greek Committee for Water Resources Management, «Integrated Water Resources Management under Conditions of Climate Change», May 27-30, Volos, Greece.
41. **Stefanakis, A.I.** and Tsihrintzis, V.A., 2008. *Constructed Wetland effluent quality improvement using Zeolite and Bauxite as filter media*. AQUA 3rd International Conference on Water Science and Technology with Emphasis on Water & Climate. Helexpo Palace, Athens, Greece, October 16-19.
42. **Stefanakis, A.I.**, Akrotos, C.S., Tsihrintzis, V.A., 2008. *Effect of outlet water level raising and effluent recirculation on removal efficiency of pilot-scale Horizontal Subsurface Flow*

- Constructed Wetlands*. International Conference “Small and Decentralized Water and Wastewater Treatment Plants, SWAT II”, Skiathos, Greece, May 2-4, pp. 109-114.
- 43. Stefanakis, A.I.**, Akratos, C.S., Tsihrintzis, V.A., 2008. *Performance of pilot-scale Vertical Flow Constructed Wetlands treating wastewater*. International Conference “Protection and Restoration of the Environment IX”, Kefalonia, Greece, June 29 - July 3.
- 44. Stefanakis, A.I.**, Akratos, C.S., Melidis, P., Tsihrintzis, V.A., 2008. *Activated Sludge dewatering in pilot-scale, Vertical Flow Constructed Wetlands*. International Conference “Small and decentralized water and wastewater treatment plants”, Skiathos, Greece, May 2-4.
- 45. Stefanakis, A.I.**, 2008. *Vertical Flow Constructed Wetlands for wastewater and sludge treatment*. 2nd Meeting of PhD Candidates and Master Students, “Hydromedon” University Network on Education, Research and Technology on Hydrology and Environmental Resources Management, Volos, Greece, July 11-12.
- 46.** Vaiopoulou, E., **Stefanakis, A.I.**, Aivasidis, A., 2005. *A Granular Activated Carbon Filter and Ultrafiltration Membrane System for advanced wastewater treatment*. 1st International Conference on Sustainable Urban Wastewater Treatment and Reuse. Nicosia, Cyprus, September 16-20.

12. INTERVIEWS & ARTICLES IN MAGAZINES, NEWSLETTERS AND WEB-PORTALS

1. Interview, Radio Station E103, Circular economy and sustainable water management, 27 October, 2021 (in Greek).
2. “*Water reuse in circular economy*”, EcoTec Magazine – Technology for the Environment, Member of the European Environmental Press (EEP), p. 33, Greece, April 2021.
3. “*How to achieve sustainability? Through Circular Economy!*”, Sustainable Community website, Springer Nature, August 23, 2020.
4. “*Middle East & Africa Regional Report: Third expansion of the flagship Nimr Constructed Wetlands in Oman*”, International Water Association Specialist Group on Wetland Systems for Water Pollution Control. Newsletter No. 54, p. 18-19, February 2020.
5. “*Towards beneficial reuse in Oman*”, Interview given to the Produced Water Society Newsletter “Water in Oi”, issue 12, November 8, 2019.
6. “*Promoting Circular Economy in the Oil and Gas Sector*”, Smart Water & Waste World, Vol 01, No 9, pp. 34-35, July 2019.

7. *"Expansion for Oman's flagship industrial constructed wetland"*, The Source - the magazine of the International Water Association, July 2019.
8. *"A constructed wetland treating domestic wastewater in the desert and the onsite irrigation reuse of the treated effluent"*, International Water Association Specialist Group on Wetland Systems for Water Pollution Control. Newsletter No. 53, p. 13, April 2019.
9. *"How the largest Constructed Wetland in the world 'filters' oilfield wastewater"*, Article in the environmental portal GreenAgenda (www.greenagenda.gr), February 19, 2019.
10. *"Urban Wetland Systems: Green Infrastructure for Sustainable Water Management"*, Express Water - India's Premier Water Community Platform, Vol 01, No 3, pp. 20-21, February 2018.
11. *"A Wetland Facility treating oily water in Middle East"*, International Water Association Specialist Group on Wetland Systems for Water Pollution Control. Newsletter No. 51, pp 9-10, January 2018.
12. *"Cleaning polluted water with the power of nature"*, Interview to the Greek State TV "ERT1", Show "Pame Allios", May 13, 2017.
13. *"Reuse of oilfield produced water ecologically treated in a Constructed Wetland for irrigation of biofuel and other useful plants"*, EcoTec Magazine – Technology for the Environment, Member of the European Environmental Press (EEP), Greece, April 2017.
14. *"Bauer Resources Saudi promoting sustainable wastewater management using green treatment technology"*, Article in the GSBM German-Saudi Business Magazine, German – Saudi Arabian Liaison Office for Economic Affairs, Saudi Arabia, November 2016.
15. *"Young Water Professionals in the Wetland SG"*, International Water Association Specialist Group on Wetland Systems for Water Pollution Control. Newsletter No. 49, p. 15, November 2016.
16. *"Vertical Flow Constructed Wetlands"*, Article in the website of the International Water Association Water Wiki (www.iwawaterwiki.org), November 29, 2015.
17. *"Remediation of groundwater contaminated with hydrocarbons in industrial areas using natural treatment systems"*, EcoTec Magazine – Technology for the Environment, Member of the European Environmental Press (EEP), Greece, November 2014.
18. *"When Nature Serves Engineering: Plants that Clean Water"*, Earth & Environmental Science Blog, SciTechConnect, Elsevier (<http://scitechconnect.dev-server-host.com>), August 2014.
19. *"Constructed Wetlands, the future of wastewater treatment"*, Interview to the radio station and website FM Voice (www.fmvoice.gr), March 14, 2014.

20. *“Environmental investment in paper industry: use of a biomass boiler”*, EcoTec Magazine – Technology for the Environment, Member of the European Environmental Press (EEP), pp. 40-41, Greece, September 2013.
21. *“Constructed wetlands: ecological wastewater and sludge treatment using plants”*, Article in the news portal Econews (www.econews.gr), Greece, September 2012.
22. *“Constructed Wetlands for wastewater sludge treatment and dewatering: economical and environmentally friendly management, with low initial investment and construction cost”*. EcoTec Magazine – Technology for the Environment, Member of the European Environmental Press (EEP), Greece, June 2012.
23. *“Constructed wetlands ‘swallow’ wastewater”*, Interview to the news portal Newsit (www.newsit.gr)m Greece, May 2012.
24. *“Constructed Wetlands: wastewater treatment method. sustainable, economic and ecological solution for small and medium sized settlements”*, EcoTec Magazine – Technology for the Environment, Member of the European Environmental Press (EEP), pp. 46-49, Greece, March 2012.

12. SCIENTIFIC & RESEARCH COMMITTEES

1. Scientific Committee, 2nd International Conference Strategies toward Green Deal implementation, Online, Polish Academy of Sciences, Poland, 8-10 December, 2021.
2. Technical Committee, International Conference on Energy Science and Environmental Chemistry (ICESEC 2021), Hubei Zhongke Institute of Geology and Environment Technology, Wuhan, China, December 4-5, 2021.
3. Scientific Committee, World Resources Forum 2021. Switzerland, Ghana. October 12–14, 2021.
4. Scientific Committee, 9th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, BOKU University, Vienna, Austria, September 13-17, 2021.
5. Scientific Committee, 1st online International Conference “Strategies toward Green Deal Implementation - Water and Raw Materials (ICGreenDeal2020)”, National Center for Research and Development & Ministry of Climate and Environment, Poland, December 14-16, 2020.
6. Scientific Committee, 4th GreenTech Challenge, Environmental Economics and Sustainability Unit, National Technical University of Athens, Greece, 2020.

7. Scientific Committee, 17th IWA International Conference on Wetland Systems for Water Pollution Control, Bangkok, Thailand, November 16-19, 2020.
8. Scientific Committee & Reviewer, IWA World Water Congress & Exhibition 2020, Copenhagen, Denmark, October 18-23, 2020.
9. Scientific Committee, International Network for Economic Research Conference on Circular Economy at Micro and Macro level – INFER, Alexandroupolis, Greece, July 1-3, 2020.
10. Scientific Committee, International Symposium on Constructed Wetlands & Small Decentralized Wastewater Treatment Plants. Institute of Chemical Engineering Sciences, ICE-HT, Foundation for Research and Technology – Hellas (FORTH), Patras, Greece, August 29-31, 2019.
11. Scientific Committee, 8th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL. Aarhus University, Denmark, June 17-21, 2019.
12. Scientific Committee & Reviewer, 16th IWA International Conference on Wetland Systems for Water Pollution Control, Valencia, Spain, October 7-11, 2018.
13. Scientific Committee, IWA World Water Congress & Exhibition 2018, Tokyo, Japan, September 16-21, 2018.
14. Research Committee 2017, External member to advice on research engagement, Caledonian College of Engineering, Muscat, Oman.
15. Scientific Committee, 7th International Symposium on Wetland Pollutant Dynamics and Control – WETPOL, Montana State University, Montana, USA, August 21-25, 2017.
16. Technical Program Committee, 6th International Conference on Materials Science and Engineering (CMSE 2017), Beijing, China, October 24-27, 2017.
17. Research Committee 2016, External member to advice on research engagement, Caledonian College of Engineering, Muscat, Oman.
18. Technical Program Committee, 5th International Conference on Materials Science and Engineering (CMSE 2016), Taiwan, November 8-11, 2016.
19. Scientific Committee & Reviewer, 15th IWA International Conference on Wetland Systems for Water Pollution Control, Gdansk, Poland, September 4-8, 2015.
20. Technical Program Committee, 5th International Conference on Materials Science and Engineering (CMSE 2015), Macau, China, August 3-6, 2015
21. Technical Program Committee, 4th International Conference on Biomedical Engineering and Biotechnology (ICBEB 2015), Shanghai - China, August 18 - 21, 2015.

22. Technical Program Committee, 3rd Global Conference on Materials Science and Engineering (CMSE 2014), Shanghai, China, October 20-23, 2014.
23. Technical Program Committee, 2nd Global Conference on Materials Science and Engineering (CMSE 2013), Xianning, China, November 20-22, 2013.
24. Organizing Committee, International Conference “2nd International Conference on Water Economics, Finance and Statistics”, International Water Association, Alexandroupolis, Greece, July 3-5, 2009.
25. Organizing Committee, International Conference “Asset Management of Medium and Small Wastewater Utilities”, International Water Association, Alexandroupolis, Greece, July 3-4, 2009.

13. REVIEWER AND EVALUATOR

13.1 International Scientific Journals

Elsevier: Ecological Engineering, Chemical Engineering, Water Research, Waste Management, Journal of Hazardous Materials, Science of the Total Environment, Bioresource Technology, Chemosphere, Environmental Pollution, Journal of Cleaner Production, Sustainable Production and Consumption, Journal of Environmental Management, Journal of Environmental Sciences, Heliyon, Applied Energy, Applied Mathematical Modelling, Egyptian Journal of Remote Sensing, Journal of Water Process Engineering, Journal of Environmental Sciences, Environmental Technology & Innovation, Environmental Challenges.

Springer: Circular Economy and Sustainability, Environmental Science and Pollution Research, Reviews of Environmental Contamination and Toxicology, Environment Development and Sustainability, Journal of Environmental Health Science and Engineering, Applied Water Science, Hydrobiologia, Water Conservation Science and Engineering, Frontiers of Environmental Science & Engineering, Waste and Biomass Valorization, Environmental Processes, Reviews in Environmental Science and Bio/Technology, International Journal of Environmental Science and Technology, SN Applied Sciences, Landscape and Ecological Engineering

Taylor & Francis: Environmental Technology, Desalination and Water Treatment, Soil and Sediment Contamination, International Journal of Phytoremediation, Journal of Environmental Engineering and Landscape Management,

Wiley: Water Environment Research, Journal of Chemical Technology & Biotechnology, International Water Association: Water Science and Technology, Blue-Green Systems, Open Water Journal, Water Policy

MDPI: Water, Sustainability, Applied Sciences, Materials, Polymers, Microorganisms, Processes, Journal of Marine Science and Engineering, International Journal of Environmental Research and Public Health, Remote Sensing, Environments

Other: Frontiers in Chemical Engineering, Frontiers in Microbiology, Revista Ambiente & Água (Instituto de Pesquisas Ambientais em Bacias Hidrográficas), Global Network of Environmental Science and Technology Journal (Global Nest), Acta Scientiarum Polonorum 'Formatio Circumiectus' (University of Agriculture in Krakow), Current World Environment, (Environmental Research Publishers), AIMS Environmental Science, Progress in Industrial Ecology (Inderscience Publishers), Environmental Engineering and Management Journal (Technical University of IASI), Journal of Engineering and Technological Sciences (Indonesian Engineering Association), Journal of Water and Land Development (Polish Academy of Science), Water SA (South African Water Research Commission), International Journal of Hydrology Science and Technology (Interscience Publishers), Journal of Microbiology, Biotechnology and Food Sciences (Slovak University of Agriculture in Nitra), Journal of Africa Development and Resources Research Institute, Environmental Engineering Science, (Association of Environmental Engineering & Science Professors – Mary Ann Liebert Inc), Journal of Environmental Engineering (American Society of Civil Engineers), American Journal of Environmental Sciences (Science Publications), African Journal of Biomedical Research (African Journals OnLine), Journal of Solid Waste Technology and Management (Widener University School of Engineering), Journal of Geoscience and Environment Protection (Scientific Research Academic Publisher), Journal of Microbiology Biotechnology and Food Sciences (Slovak University of Agriculture in Nitra), African Journal of Environmental Science and Technology (Academic Journals), African Journal of Biotechnology (Academic Journals), Journal of Toxicology (Hindawi Publishing Corporation), Advances in Meteorology (Hindawi Publishing Corporation), Chemical Industry and Chemical Engineering Quarterly (Association of Chemical Engineers of Serbia).

13.2 Books

Review of book proposals for Elsevier, Springer, Wiley & Sons, International Water Association, Palgrave Macmillan, IGI Global

13.3 External Reviewer and Evaluator of Research Proposals

1. National Technical University of Athens, Basic Research Support Program (ΠΕΒΕ2020).
2. Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK) (2020, 2021).
3. Estonian Research Council, Estonia
4. Public Funding Agency for R&D (FCT), Portugal
5. Kuwait Foundation for the Advancement of Sciences (KFAS) (2020).
6. European Cooperation in Science and Technology (COST), EU Framework Programme Horizon 2020 (2016-2018).
7. Restart 2016 – 2020, Programmes for Research, Technological Development and Innovation. Programme “New Strategic Infrastructure Units – Young Scientists”. Cyprus Research Promotion Foundation. EU Framework Programme Horizon 2020 (2017-2018).
8. Chilean National Science and Technology Commission (CONICYT - Chile), FONDECYT Initiation into Research (2017).

13.4 External Evaluator of Master and Ph.D. Theses

1. Technical University of Crete, Greece: (8) Diploma Thesis [since 2020]
2. University of Saint Joseph, Macao, China: (1) M.Sc. Thesis (2021)
3. University of Witwatersrand, Johannesburg, South Africa: (1) M.Sc. Thesis (1) [2019]
4. University of Mauritius, Reduit, Mauritius: (1) Ph.D. Thesis [2020]

14. STUDENTS ADVISING

Technical University of Crete, Greece

M.Sc. Degree: **5** students (2020-present)

Graduate Diploma: **9** students (2020-present)

Hellenic Open University

Graduate Diploma: **4** students (2020-present)

Sultan Qaboos University, Oman

Ph.D. Degree: **1** student (2019-present)

German University of Technology in Oman

Graduate Diploma: **3** students (2018, 2019)

University of Brighton

M.Sc. Degree: **1** student (2015)

15. CONFERENCE AND WORKSHOPS ORGANIZED

1. International Conference “2nd International Conference on Water Economics, Finance and Statistics”, International Water Association, Alexandroupolis, Greece, July 3-5, 2009.
2. International Conference “Asset Management of Medium and Small Wastewater Utilities”, International Water Association, Alexandroupolis, Greece, July 3-4, 2009.
3. Workshop, INTERREG IIC-BEACHMED-e “Strategic management of coastline for sustainable development of Mediterranean coastal zones”. Department of Environmental Engineering, Democritus University of Thrace, Prefecture of East Macedonia & Thrace, Xanthi, April 10, 2008.
4. Workshop “Management of transboundary waters”. Department of Environmental Engineering & Department of Civil Engineering, Democritus University of Thrace, Xanthi, November 16. 2007.

16. TRAINING SEMINARS/SCIENTIFIC WORKSHOPS

1. *Workshop on Nanomaterials behavior and Wetlands: A beginners’ guide to robust research.* York, UK, September 13, 2015.
2. *Young Leaders Seminar* - Educational opportunity for personal development. Seminars presented by Dr Ronald Heifetz and Dr Steve Jarding (Kennedy School of Government, Harvard University). Athens, Greece, July 13-15, 2015.
3. *Wetland Workshop.* Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany, June 12-14, 2013

17. ENGINEERING DESIGN STUDIES

More than 60 complete design-engineering studies of wastewater treatment facilities using nature-based solutions (Constructed Wetlands, Stabilization ponds, Roughing Filters, etc.) in various countries and for many different wastewater sources between 2013-2021. The design flow range varies between 5 m³/day up to 100,000 m³/day for some applications.

Number of engineering studies per country	
▪ Oman (34)	▪ Greece (16)
▪ Saudi Arabia (6)	▪ United Arab Emirates (11)
▪ Qatar (5)	▪ Lebanon (5)
▪ Jordan (4)	▪ Iran (3)
▪ USA (3)	▪ Nigeria (1)
▪ South Africa (1)	▪ Philippines (1)
▪ Zimbabwe (1)	▪ Bahrain (1)
▪ Kuwait (1)	▪ Chad (1)
▪ Brazil (1)	▪ Venezuela (1)
▪ Portugal (1)	▪ Chile (1)
▪ Canada (1)	

Domestic & municipal wastewater: Oman (17), United Arab Emirates (7), Saudi Arabia (6), Greece (6), Lebanon (5), Jordan (2), Iran (2), Qatar (2), USA (2), Nigeria (1), Philippines (1), South Africa (1), Zimbabwe (1), Canada (1)

Sludge Treatment Wetlands: Oman (4), Jordan (1), Greece (2)

Wastewater from the oil and gas industry: Oman (6), United Arab Emirates (3), Bahrain (1), Qatar (1), Kuwait (1), Chad (1)

Mine drainage: Brazil (1), Oman (1)

Glass industry wastewater: Iran (1)

Olive mill wastewater: Greece (2)

Poultry farms wastewater: United Arab Emirates (1), Qatar (1)

Cattle farms wastewater: Oman (2)

Slaughterhouse wastewater: Jordan (1), Oman (1), Greece (1)

Dairy farms wastewater: Oman (2), Qatar (1), Greece (1)

Landfill leachate: Oman (1), Leachate (1)

Cork processing wastewater: Portugal (1)

Car engines manufacturing wastewater: USA (1)

Tanneries wastewater: Venezuela (1)

Packaging materials manufacturing wastewater: Greece (1)

Car wash facility wastewater: Greece (1)

Pulp and paper industry wastewater: Greece (1)

Wineries wastewater: Chile (1)

18. LANGUAGE SKILLS

English

Reading : Excellent

Writing : Excellent

Speech : Excellent

Certificates : Certificate of Proficiency (2003, University of Cambridge)

First Certificate (2001, University of Cambridge)

German

Reading : Excellent

Writing : Excellent

Speech : Excellent

Certificates : Zentrale Mittelstufenprüfung (1998, Goethe-Institut)