

Curriculum Vitae

GENERAL INFORMATION

Name/Surname: Spyridon Ntougias
Work Position: Professor
Work Address: Department of Environmental Engineering, Democritus University of Thrace, Vas. Sofias 12, Xanthi, Greece.
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QUALIFICATIONS

1995-1999	Ph.D. Degree, Department of Biological Sciences, Wye College, University of London.
1990-1995	B.Sc. in Chemistry, Department of Chemistry, University of Athens. Oenological Education Program, Department of Chemistry, University of Athens.

WORK & RESEARCH EXPERIENCE

10/1995 - 5/1999	Ph.D. Degree, University of London, Wye College, Department of Biological Sciences (Supervisor: Professor N. J. Russell, Imperial College). <i>Ph.D. thesis:</i> “Alkaliphilic bacteria from edible olives”.
17/9/2001 - 31/3/2002 & 1/6/2002 - 28/2/2005 & 9/3/2005 - 7/1/2009	Scientific staff, Institute of Kalamata, National Agricultural Research Foundation of Greece (NAGREF).
Academic year 2001/02 - February 2008	Scientific Fellow, Lecturing in the Technological Institute of Kalamata.
January 2009 - Present	Lecturer (Jan. 2009 – Aug. 2013), Assistant Professor (Aug. 2013 – Aug. 2018), Associate Professor (Aug. 2018 – July 2022) and Professor (July 2022 – present) in Environmental Microbiology, Department of Environmental Engineering, Democritus University of Thrace.

PARTICIPATION IN RESEARCH PROGRAMMES/PROJECTS

17/09/2001 - 31/03/2002	“Integrated production and postharvesting management of figs”, funded by the SIKIKI cooperative, Kalamata, Greece.
01/06/2002 - 28/02/2005	“Recycling horticultural wastes to produce pathogen suppressant composts for sustainable vegetable crop production-RECOVEG”, funded by the E.U. (3-year research program, 5 th framework, Quality of Life and Management of Natural Resources No QLRT-2000-01458).
27/05/2003 - 26/05/2005	“Integrated treatment and remediation of recalcitrant agricultural and industrial wastes with high content in polyphenolics and dyes”, Joint Research and Technology Programme (Ministry of Education, Youth and Sports of the Czech Republic-Greek General Secretariat of Research and Technology, ME686).
09/03/2005 - 30/09/2007	“Biological Treatment and Valorization of Olive Mill

Wastewaters: Mechanisms and Integrated Applications”, EPAN FP 66, 3-year research program co-funded by the E.U. (75%) and the Greek Ministry of Development Secretariat for Research and Technology (25%), through the Operational Programme Competitiveness.

23/03/2009 - 23/03/2012	“Determination of microbial population in municipal and agroindustrial wastewaters”, KE 80268, funded by the National Technical Chamber of Greece (Principal Investigator: Spyridon Ntougias).
26/06/2009 - 31/12/2011	“Technical support to the Municipality of Moudania to solve the operational problems of the wastewater treatment plants of the Municipality”, KE 80028, funded by the Municipality of Moudania.
27/10/2011 – 26/10/2014	“Characterization of microorganisms isolated from environmental samples”, KE 80848, funded by the National Technical Chamber of Greece (Principal Investigator: Spyridon Ntougias).
23/04/2013 - 30/09/2014	“Scientific support of the company ‘Analytical Laboratory’s of Athens S.A.’ during the drinking water monitoring programme of the municipality of Thasos”, KE 81194, funded by Analytical Laboratories of Athens S.A.
15/05/2013 - 20/02/2014	“Support of the intermunicipal public enterprise for waste management of the 2 nd Administrative Regional Unit Chalkidiki for the treatment optimization of the Anthemounta landfill leachate”, KE 81167, funded by 2 nd Administrative Regional Unit Chalkidiki, Greece.
17/06/2014 - 16/06/2015	“Scientific support of the company "ANALYTICAL LABORATORIES OF ATHENS S.A." during the drinking water monitoring programme of the municipality of Thasos”, KE 81382, funded by Analytical Laboratories of Athens S.A.
07/04/2014 - 06/10/2014	“Optimization of microbial analyses in dairy industry Rodopi S.A.”, KE 81370, funded by RODOPI S.A. (Principal Investigator: Spyridon Ntougias).
15/01/2014 - 30/06/2015	“Pilot-scale investigation on coagulation-floculation and ultrafiltration to upgrade leachate treatment of Anthemounta landfill”, KE 81288, funded by 2 nd Administrative Regional Unit Chalkidiki, Greece
07/03/2014 - 06/03/2017	“Identification of microbial communities during wastewater treatment of landfill leachates in membrane bioreactors”, KE 81341, funded by the National Technical Chamber of Greece (Principal Investigator: Spyridon Ntougias).
06/08/2014 - 22/10/2014	“ENERGEIA – Fostering the use of low temperature geothermal sources through the development of operational exploitation guidelines and green energy solutions of enterprising”, KE 81270, funded by INTERREG IV (EUROPEAN TERRITORIAL Co-operation) Greece – Bulgaria 2007-2013; funded by the EU and national funds.
23/12/2014 - 22/12/2015	“Cultivation of the medfly gut symbiont <i>Enterobacter</i> sp. AA26 in a suspension bioreactor for mass rearing and sterile insect technique application”, KE 81497, funded by International Atomic Energy Agency - IAEA (Principal Investigator: Spyridon Ntougias)

22/09/2015 - 21/05/2016 & 08/06/2016 - 20/06/2016	“Scientific support of the company ERGASIS TECHNIKI SA by optimizing the operation of the biological treatment plant treating the leachate of the solid waste landfill of EDESSA, KE 81631, funded by ERGASIS TECHNIKI S.A.
23/12/2015 - 31/05/2017	“Cultivation of the medfly gut symbiont <i>Providencia</i> sp. AA1 in a suspension bioreactor for mass rearing and sterile insect technique application, KE 81664, funded by International Atomic Energy Agency - IAEA (Principal Investigator: Spyridon Ntougias)
25/05/2016 - 08/01/2017 & 15/02/2017 - 15/03/2017	Scientific support to the company "Hydrochimiki-Tsolakis N. & Co S.A." to treat and manage the leachate of the solid waste landfill of Komotini, KE 81732, funded by Hydrochimiki-Tsolakis N. & Co S.A.
20/07/2016 - 19/03/2017	“Microbiological analyses of wastes: enumeration and characterization of microorganisms by culture-dependent and -independent approaches”, KE 81766, funded by Intergeo - Environmental Technology Ltd. (Principal Investigator: Spyridon Ntougias).
28/09/2016 - 27/03/2017	“Evaluation and control of sanitary sewer system problems of the Municipality of Monemvasia”, KE 81809, funded by Municipality of Monemvasia.
26/04/2017 - 25/12/2017	Scientific support of the company "Hydrochimiki-Tsolakis N. and Co SA" to treat and manage the leachate of the solid waste landfill of KOMOTINI, KE 81897, funded by Hydrochimiki-Tsolakis N. & Co S.A.
Start: 01-07-2017 (for a period of 2 years)	Supervisor of Partner Organization DUTH - Dept. of Environmental Engineering: in MARIE SKŁODOWSKA-CURIE ACTION “Exploring Microbial networking in pesticides biodeGRAdation: novel inocula and biocatalysts for biodepuration of agro-industrial Effluents” EMIGRATE, H2020-MSCA-IF-2016 (EU funded – granted to University of Thessaly).
15/03/2018-14/07/2019	Operational Program "Human Resource Development, Education and Lifelong Learning", NSRF 2014-2020, co-funded by the European Social Fund (ESF), MIS 5006203, Scientific Area 2, title of the project «Optimizing the energy recovery of waste from oranges juice industries using specialized native microorganisms as a starting culture» (Principal Investigator: Spyridon Ntougias).
28/06/2018-27/12/2021	“Development and implementation of novel biobased methods for the treatment of pesticide-contaminated wastewaters from agro-industries”, MIS 5030360”, Acronym «MINOTAUR», cofinanced by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH – CREATE – INNOVATE (project code: T1EDK-02566). (Principal Investigator/Coordinator: Spyridon Ntougias).
17/07/2019-16/12/2019	“Identification of filamentous microorganisms in the activated sludge of a wastewater treatment plant”, KE 82335, funded by ALPHA Bioenergy Ltd (Principal Investigator: Spyridon Ntougias).
01/01/2019-31/12/2023	“Investigation of methods for controlling sludge production in wastewater treatment systems”, KE 82257, funded by E.T.A.A. (Principal Investigator: Spyridon Ntougias).

12/02/2020 - 31/03/2020	“Services to the Municipality of Iasmos/Komotli Greece regarding detailed design, installation, pre-commissioning check and personnel training for the operation of the BIO-CEL MBR modules”, KE 82437, funded by MICRODYN-NADIR GmbH
08/07/2020 - present	“The Technologies of Environmental Legislation”, KE 82213 (Principal Investigator: Spyridon Ntougias, as Director of the M.Sc. programme “The Technologies of Environmental Legislation”)
04/11/2020 - present	“Support of educational and research activities in the frame of the of Postgraduate Programmes of the Department of Environmental Engineering, Democritus University of Thrace”, KE 82579, (Principal Investigator: Spyridon Ntougias, as Head of the Department of Environmental Engineering)
Nov. 2020 – May 2023	“Strengthening the water management practices (in EMT-R) through the development of innovative ICT methodologies and improvement of research infrastructures, acronym Eye4Water, MIS 5047246”, implemented under the action “Support for Research Infrastructure and Innovation”, which has been co-financed by the European Regional Development Fund of the European Union and Greek national funds through the Operational Program “Competitiveness, Entrepreneurship and Innovation”.
24/06/2021 - 02/06/2025	BioPesticides - Development of Bio-Pesticides and -Herbicides for Sustainable Agricultural Crop Production, KE-82726, PRIMA (Partnership for Research and Innovation in the Mediterranean Area), (PRIMA, H2020, Section 2 Multitopic 2020, Thematic Area 2-Farming systems, Topic 2.2 1 -(RIA*[2]) Redesign agro-livelihood systems to ensure resilience, RIA Research and Innovation activities.) (ΓΤΡΜ-0357185 - Prima2020-10) (Principal Investigator: Spyridon Ntougias).
21/03/2022 - 31/01/2025	Iliad Digital Twin of the Ocean, European Commission’s Horizon 2020 Research and Innovation programme under grant agreement No 101037643

RESEARCH RECOGNITION AND EDITORIAL ACTIVITIES

Years 2015-2019: Member of the Board of Directors of Greek Microbiological Society “MIKROBIOKOSMOS” (Member of Federation of European Microbiological Societies-FEMS) (<http://www.mikrobiokosmos.org/en/content/board-directors>)

Associate Editor of “Frontiers in Microbiology”, section “Systems Microbiology”

Associate Editor of “Frontiers in Sustainability”, section “Circular Economy”

Associate Editor of “Annals of Microbiology” (Springer).

Associate Editor of “Water” (MDPI)

Editors-in-Chief of “GMPC Thesis & Opinions Platform” Journal, German Multidisciplinary Publishing Center.

Guest Editor of “Frontiers in Chemical Engineering”.

Guest Editor of “Biomed Research International”.

Papadopoulou, K. K., Kavroulakis, N., **Ntougias, S.**, Zervakis, G. I., Ehaliotis, C. (2009). The fungus *Fusarium solani* strain 'Fs-K' and its use in the biological control of plant pathogens and in the enhancement of plant growth and productivity (No 1006119 - GR2008/000057).

SCIENTIFIC PUBLICATIONS, INCLUDING MONOGRAPHS

A. Ph.D. THESIS, BOOKS & CHAPTER BOOKS

A1. Ntougias, S. (1999). Alkaliphilic bacteria from edible olives. Ph.D. thesis. Wye College, University of London.

A2. Ntougias, S. and Russell, N. J. (2009). The low G+C Gram-positive *Bacteria*-Genus *Alkalibacterium*, pp. 557-559. In: P. De Vos, G. Garrity, D. Jones, N. R. Krieg, W. Ludwig, F. A. Rainey, K. –H. Schleifer and W. B. Whitman (eds.), editor-in-chief G. Garrity, vol. 3. Bergey's Manual of Systematic Bacteriology. Springer, New York, **ISBN 0-387-95041-9**.

A3. Ntougias, S. and Kavroulakis N. (Pub. Date: 2010 4th quarter). Natural antioxidants from olive mill wastes, pp. 1-21. In: Olive Oil and Health, J.D. Corrigan (ed.). Nova publishers, New York, **ISBN: 978-1-61761-170-4**.

A4. Ntougias, S., Aivasidis, A. and Melidis, P. (2012). Environmental Microbiology. Embryo Publications, Athens, Greece, **ISBN 978-960-8002-66-1** (In Greek).

A5. Nikolaou, E. I. and **Ntougias, S.** (2013). A framework to assist firms in evaluating environmental and microbiological risks arising from the implementation of environmental policy throughout their supply chain, pp. 107-128. In: Environmental Policy: Management, Legal Issues and Health Aspects, E. Creighton and P. Danovich (eds). Environmental Research Advances Series, Nova Publishers, New York, **ISBN: 978-1-62808-496-2**.

A6. Ntougias, S. and Zervakis, G. I. (2019). *Halotalea* Ntougias, Zervakis and Fasseas 2007, 1981^{VP} emend. Ntougias, Lapidus, Copeland, Reddy, Pati, Ivanova et al., 2015, 7. Bergey's Manual of Systematics of Archaea and Bacteria, 1-7, <https://doi.org/10.1002/9781118960608.gbm01714>

B. REFEREED JOURNALS

(*Scholar: H_{index}: 27, citations: 2336 / Scopus: H_{index}: 25, citations: 1634*)

B1. Ntougias, S. and Russell, N. J. (2000). *Bacillus* sp. WW3-SN6, a novel facultatively alkaliphilic bacterium isolated from the washwaters of edible olives. *Extremophiles* **4**, 201-208.

B2. Ntougias, S. and Russell, N. J. (2001). *Alkalibacterium olivoapovliticus* gen. nov., sp. nov., a new obligately alkaliphilic bacterium isolated from edible-olive wash-waters. *International Journal of Systematic and Evolutionary Microbiology* **51**, 1161-1170.

B3. Ntougias, S., Zervakis, G. I., Kavroulakis, N., Ehaliotis, C. and Papadopoulou, K. K. (2004). Bacterial diversity in spent mushroom compost assessed by amplified rDNA

restriction analysis and sequencing of cultivated isolates. *Systematic and Applied Microbiology* **27**, 746-754.

B4. Kavroulakis, N., Ehaliotis, C., **Ntougias, S.**, Zervakis, G. I. and Papadopoulou, K. K. (2005). Local and systemic resistance against fungal pathogens of tomato plants elicited by a compost derived from agricultural residues. *Physiological and Molecular Plant Pathology* **66**, 163-174.

B5. **Ntougias, S.**, Ehaliotis, C., Papadopoulou, K. K. and Zervakis, G. I. (2006). Application of respiration and FDA-hydrolysis measurements for estimating microbial activity during composting processes. *Biology and Fertility of Soils* **42**, 330-337.

B6. **Ntougias, S.***, Zervakis, G. I., Ehaliotis, C., Kavroulakis, N. and Papadopoulou, K. K. (2006). Ecophysiology and molecular phylogeny of bacteria isolated from alkaline two-phase olive mill wastes. *Research in Microbiology* **157**, 376-385.

B7. Baldrian, P., Zervakis, G. I., Merhautová, V., **Ntougias, S.**, Ehaliotis, C. and Nerud, F. (2006). The use of hydroxyl-radical-generating systems for the treatment of Olive Mill Wastewaters (OMW). *Folia Microbiologica* **51**, 337-341.

B8. Kavroulakis, N., Papadopoulou, K. K., **Ntougias, S.**, Zervakis, G. I. and Ehaliotis, C. (2006). Cytological and other aspects of pathogenesis-related gene expression in tomato plants grown on a suppressive compost. *Annals of Botany* **98**, 555–564.

B9. **Ntougias, S.**, Fasseas, C. and Zervakis, G. I. (2007). *Olivibacter sitiensis* gen. nov., sp. nov., isolated from alkaline olive-oil mill wastes in the region of Sitia, Crete. *International Journal of Systematic and Evolutionary Microbiology* **57**, 398-404.

B10. **Ntougias, S.***, Zervakis, G. I. and Fasseas, C. (2007). *Halotalea alkalilenta* gen. nov., sp. nov., a novel osmotolerant and alkali-tolerant bacterium from alkaline olive mill wastes, and emended description of the family *Halomonadaceae* Franzmann *et al.* 1989, emend. Dobson & Franzmann 1996. *International Journal of Systematic and Evolutionary Microbiology* **57**, 1975-1983.

B11. Kavroulakis, N., **Ntougias, S.**, Zervakis, G. I., Ehaliotis, C., Haralampidis, K. and Papadopoulou, K. K. (2007). Role of ethylene in the protection of tomato plants against soil-borne fungal pathogens conferred by an endophytic *Fusarium solani* strain. *Journal of Experimental Botany* **58**, 3853–3864.

B12. **Ntougias, S.**, Papadopoulou, K. K., Zervakis G. I., Kavroulakis N. and Ehaliotis, C. (2008). Suppression of soil-borne pathogens of tomato by composts derived from agro-industrial wastes abundant in Mediterranean regions. *Biology and Fertility of Soils* **44**, 1081-1090.

B13. Tsiamis, G., Katsaveli, K., **Ntougias, S.**, Kyrpides, N., Andersen, G., Piceno, Y. and Bourtzis, K. (2008). Prokaryotic community profiles at different operational stages of a Greek solar saltern. *Research in Microbiology* **159**, 609-627.

B14. Kavroulakis, N., **Ntougias, S.**, Besi, M. I., Katsou, P., Damaskinou, A., Ehaliotis, C., Zervakis, G. I. and Papadopoulou, K. K. (2010). Antagonistic bacteria of composted agro-industrial residues exhibit antibiosis against soil-borne fungal plant pathogens and protection

of tomato plants from *Fusarium oxysporum* f.sp. *radicis-lycopersici*. *Plant and Soil* **333**, 233-247.

B15. Karpouzas D. G., **Ntougias, S.**, Iskidou, E., Rousidou, C., Papadopoulou, K. K., Zervakis, G. I. and Ehaliotis, C. (2010). Olive mill wastewater affects the structure of soil bacterial communities. *Applied Soil Ecology* **45**, 101-111.

B16. **Ntougias, S.**, Kavroulakis, N., Papadopoulou, K. K., Ehaliotis, C. and Zervakis G. I. (2010). Characterisation of cultivated fungi isolated from grape marc wastes through the use of amplified rDNA restriction analysis and sequencing. *Journal of Microbiology* **48**, 297-306.

B17. Zafiriadis, I., **Ntougias, S.**, Nikolaidis, C., Kapagiannidis, A.G. and Aivasidis, A. (2011). Denitrifying Polyphosphate Accumulating Organisms population and nitrite reductase gene diversity shift in a DEPHANOX-type activated sludge system fed with municipal wastewater. *Journal of Bioscience and Bioengineering* **111**, 185-192.

B18. **Ntougias, S.***, Tanasidis, S. and Melidis, P. (2011). Microfaunal indicators, Ciliophora phylogeny and protozoan population shifts in an intermittently aerated and fed bioreactor. *Journal of Hazardous Materials* **186**, 1862-1869.

B19. Kavroulakis, N. and **Ntougias, S.*** (2011). Bacterial and β -proteobacterial diversity in *Olea europaea* var. *mastoidis*- and *O. europaea* var. *koroneiki*-generated olive mill wastewaters: influence of cultivation and harvesting practice on bacterial community structure. *World Journal of Microbiology and Biotechnology* **27**, 57–66.

B20. Komilis, D., Kontou, I., and **Ntougias, S.** (2011). A modified static respiration assay and its relationship with an enzymatic test to assess compost stability and maturity. *Bioresource Technology* **102**, 5863-5872.

B21. Ouzounidou G., **Ntougias S.**, Asfi M., Gaitis F. and Zervakis G.I. (2012). Raw and fungal-treated olive-mill wastewater effects on selected parameters of lettuce (*Lactuca sativa* L.) growth – The role of proline. *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes* **47**, 728-735.

B22. Zafiriadis, I., **Ntougias, S.**, Mirelis, P., Kapagiannidis, A.G. and Aivasidis, A. (2012). Molecular characterization of denitrifying bacteria isolated from the anoxic reactor of a modified DEPHANOX plant performing enhanced biological phosphate removal. *Water Environment Research* **84**, 475-484.

B23. **Ntougias, S.*** (2012). Alkaliphilic Lactic Acid Bacteria: Novel Sources for Genetic Engineering and Biotechnology. *Gene Technology* **1**, e102. (<http://dx.doi.org/10.4172/gnt.1000e102>).

B24. **Ntougias, S.**, Baldrian, P., Ehaliotis, C., Nerud, F., Antoniou, T., Merhautová, V. and Zervakis, G. I. (2012). Biodegradation and detoxification of olive mill wastewater by selected strains of the mushroom genera *Ganoderma* and *Pleurotus*. *Chemosphere* **88**, 620-626.

B25. Diamantis, V., Khan, A., **Ntougias, S.**, Stamatelatou, K., Kapagiannidis, A.G., Aivasidis, A. (2013). Continuous biohydrogen production from fruit wastewater at low pH conditions. *Bioprocess and Biosystems Engineering* **36**, 965-974.

- B26. Ntougias, S.**, Gaitis, F., Katsaris, P., Skoulika, S., Iliopoulos, N., Zervakis, G.I. (2013). The effects of olives harvest period and production year on olive mill wastewater properties - Evaluation of *Pleurotus* strains as bioindicators of the effluent's toxicity. *Chemosphere* **92**, 399-405.
- B27.** Diamantis V.I., Anagnostopoulos K., Melidis P., **Ntougias S.** and Aivasidis A. (2013) Intermittent operation of low pressure UF membranes for sewage reuse at household level. *Water Science & Technology* **68**, 799-806.
- B28. Ntougias, S.**, Bourtzis, K. and Tsiamis, G. (2013). The microbiology of olive mill wastes. *Biomed Research International* art. no. 784591.
- B29.** Zafiriadis, I., **Ntougias, S.**, Kapagiannidis, A.G. and Aivasidis, A. (2013). Metabolic behavior and enzymatic aspects of denitrifying EBPR sludge in a continuous-flow anaerobic-anoxic system. *Applied Biochemistry and Biotechnology* **171**, 939-953.
- B30. Ntougias, S.*** (2014). Phylogeny and ecophysiological features of prokaryotes isolated from temporary saline tidal pools. *Annals of Microbiology* **64**, 599-609.
- B31.** Diamantis, V.I., Kapagiannidis, A.G., **Ntougias, S.**, Tataki, V., Melidis, P. and Aivasidis, A. (2014). Two-stage CSTR-UASB digestion enables superior and alkali addition-free cheese whey treatment. *Biochemical Engineering Journal* **84**, 45-52.
- B32.** Zervakis, G.I., **Ntougias, S.**, Gargano, M.L., Besi, M.I., Polemis, E., Typas, M.A. and Venturella, G. (2014). A reappraisal of the *Pleurotus eryngii* complex - New species and taxonomic combinations based on the application of a polyphasic approach, and an identification key to *Pleurotus* taxa associated with Apiaceae plants. *Fungal Biology* **118**, 814-834.
- B33. Ntougias, S.**, Lapidus, A., Han, J., Mavromatis, K., Pati, A., Chen, A., Klenk, H.-P., Woyke, T., Fasseas, C., Kyrpides, N.C. and Zervakis, G.I. (2014). High quality draft genome sequence of *Olivibacter sitiensis* type strain (AW-6^T), a diphenol degrader with genes involved in the catechol pathway. *Standards in Genomic Sciences* **9**, 783-793.
- B34.** Melidis, P., Kapagiannidis, A.G., **Ntougias, S.**, Davididou, K. and Aivasidis, A. (2014). Performance and metabolic aspects of a novel enhanced biological phosphorus removal system with intermittent feeding and alternate aeration. *Water Science and Technology* **69**, 1612-1619.
- B35.** Papadelli, M. and **Ntougias, S.*** (2014). Microbial community structure and disposal issues of table olive wastewaters generated from the fermentation of the olive cultivar 'Kalamon'. *Annals of Microbiology* **64**, 1483-1492.
- B36.** Melidis, P., **Ntougias, S.** and Sertis, C. (2014). On-line monitoring of a BNR process using in situ ammonium and nitrate probes and biomass nitrification-denitrification rates in an intermittently aerated and pulse fed bioreactor. *Journal of Chemical Technology and Biotechnology* **89**, 1516-1522.
- B37. Ntougias, S.***, Melidis, P., Navrozidou, E., Tzegkas, F. (2015). Diversity and efficiency of anthracene-degrading bacteria isolated from a denitrifying activated sludge system treating municipal wastewater. *International Biodeterioration & Biodegradation* **97**, 151-158.

- B38.** Alexandropoulou, I.G., **Ntougias, S.**, Konstantinidis, T.G., Parasidis, T.A., Panopoulou, M. and Constantinidis, T.C. (2015). Environmental surveillance and molecular epidemiology of waterborne pathogen *Legionella pneumophila* in health care facilities of Northeastern Greece: a four-year survey. *Environmental Science and Pollution Research* **22**, 7628-7640.
- B39.** **Ntougias, S.**, Baldrian, P., Ehaliotis, C., Nerud, F., Merhautová, V., Zervakis G.I. (2015). Olive mill wastewater biodegradation potential of white-rot fungi – Mode of action of fungal culture extracts and effects of ligninolytic enzymes. *Bioresource Technology* **189**, 121-130.
- B40.** Perruchon, C., Batianis, C., Zouborlis, S., Papadopoulou, E.S., **Ntougias, S.**, Vasileiadis, S., Karpouzas, D.G. (2015). Isolation of a diphenylamine-degrading bacterium and characterization of its metabolic capacities, bioremediation and bioaugmentation potential. *Environmental Science and Pollution Research* **22**, 19485-19496.
- B41.** **Ntougias, S.**, Lapidus, A., Copeland, A., Reddy, T.B.K., Pati, A., Ivanova, N.N., Markowitz, V.M., Klenk, H.-P., Woyke, T., Fasseas, C., Kyrpides, N.C., Zervakis, G.I. (2015). High-quality permanent draft genome sequence of the extremely osmotolerant diphenol degrading bacterium *Halotalea alkalilenta* AW-7^T, and emended description of the genus *Halotalea*. *Standards in Genomic Sciences* **10**:52 (DOI: 10.1186/s40793-015-0052-7).
- B42.** Tsiamis, G., Cherif, A., Karpouzas, D., **Ntougias, S.** (2015). Microbial Diversity for Biotechnology 2014. *BioMed Research International* article ID 604264 (<http://dx.doi.org/10.1155/2015/604264>).
- B43.** **Ntougias, S.***, Tsiamis, G., Soultani, D., Melidis, P. (2015). Dominance of rumen microorganisms during cheese whey acidification: acidogenesis can be governed by a rare *Selenomonas lacticifex*-type fermentation. *Applied Microbiology and Biotechnology* **99**, 9309-9318.
- B44.** **Ntougias, S.*** (2016). Phylogenetic identification and enzyme activities of indigenous bacteria from a landfill stabilization pond. *Environmental Processes* **3**, 341-352.
- B45.** Rousidou, K., Chanika, E., Georgiadou, D., Soueref, E., Katsarou, D., Kolovos, P., **Ntougias, S.**, Tourna, M., Tzortzakakis, E.A. and Karpouzas, D.G. (2016). Isolation of oxamyl-degrading bacteria and identification of *cehA* as a novel oxamyl hydrolase gene. *Frontiers in Microbiology* (section Systems Microbiology) **7**, 616 (doi: 10.3389/fmicb.2016.00616).
- B46.** Melidis, P., **Ntougias, S.**, Vasilatou, V., Skouteris, G., Azis, K., Diamantis, V. and Alexandridis, A. (2016). Biofouling aspects and critical flux evaluation in an intermittently aerated and fed submerged membrane bioreactor. *Environmental Processes* **3**, Suppl. 1, 23-33.
- B47.** Remmas, N., Melidis, P., Katsioui, E. and **Ntougias, S.*** (2016). Effects of high organic load on *amoA* and *nirS* gene diversity of an intermittently aerated and fed membrane bioreactor treating landfill leachate. *Bioresource Technology* **220**, 557-565.
- B48.** **Ntougias, S.**, Polkowska, Ż., Nikolaki, S., Dionyssopoulou, E., Stathopoulou, P., Doudoumis, V., Ruman M., Kozak K., Namieśnik J. and Tsiamis, G. (2016). Bacterial

Community Structures in Freshwater Polar Environments of Svalbard. *Microbes and Environments* **31**, 401-409.

B49. Remmas, N., Melidis, P., Paschos, G., Statoris, E. and **Ntougias, S.*** (2017). Protozoan indicators and extracellular polymeric substances alterations in an intermittently aerated membrane bioreactor treating mature landfill leachate. *Environmental Technology* (United Kingdom) **38**, 53-64.

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C49. Alexandropoulou, I., Mavriou, Z., Melidis, P., Karpouzas, D.G., **Ntougias S.** (2020). Biodegradation of fludioxonil in bioreactor systems in the presence of amino acids. 6th International Symposium on Green Chemistry, Sustainable Development and Circular Economy, 20-23 September, Thessaloniki, Greece.

C50. Azis, K., Mavriou, Z., Karpouzas, D.G., **Ntougias, S.**, Melidis, P. (2020). Evaluation of tertiary process of a biologically treated fungicide-based wastewater. 6th International Symposium on Green Chemistry, Sustainable Development and Circular Economy, 20-23 September, Thessaloniki, Greece.

C51. Stavrakakis, I., Remmas, N., Melidis, P., **Ntougias, S.** (2020). Inhibitory effects of the chemical uncoupler *p*-nitrophenol on the respiratory activity of activated sludge. 6th International Symposium on Green Chemistry, Sustainable Development and Circular Economy, 20-23 September, Thessaloniki, Greece.

C52. Mavriou, Z., Alexandropoulou, I., Melidis, P., Karpouzas, D.G., **Ntougias, S.** (2021). Efficiency of an immobilized cell bioreactor bioaugmented with a fludioxonil-degrading bacterium. 8th International Conference on Environmental Management, Engineering, Planning & Economics, 20-24 July, Thessaloniki, Greece.

C53. Glarakis, J., Azis, K., **Ntougias, S.**, Melidis, P. (2021). Enhanced removal efficiency of a full-scale landfill leachate treatment plant by introducing a coagulation/flocculation and ultrafiltration step after the biological process. 8th International Conference on Environmental Management, Engineering, Planning & Economics, 20-24 July, Thessaloniki, Greece.

C54. Makri, A., Azis, K., **Ntougias, S.**, Melidis, P. (2021). Assessment of biochemical methane potential of lignocellulosic agricultural residues. 8th International Conference on

Environmental Management, Engineering, Planning & Economics, 20-24 July, Thessaloniki, Greece.

C55. Kagalou, I., Sylaios, G., **Ntougias, S.**, Akrotos, C., Melidis, P., Mallinis, G., Spiliotis, M., Pliakas, F., Maris, F., Angelidis, P., Latinopoulos, D. (2021). Strengthening the water management practices (in EMT-Region) through the development of innovative ICT methodologies and improvement of research infrastructures: The eye4water project. 8th International Conference on Environmental Management, Engineering, Planning & Economics, 20-24 July, Thessaloniki, Greece.

C56. Mavriou, Z., Melidis, P., Karpouzas, D.G., **Ntougias, S.** (2021). Biotreatment of fludioxonil wastewater in a Sequencing Batch Reactor. 2nd Online Symposium on Circular Economy and Sustainability, 14-16 July, Alexandroupolis, Greece.

C57. Mavriou, Z., Alexandropoulou, I., Melidis, P., Karpouzas, D.G., **Ntougias, S.** (2021). Bioprocessing of fludioxonil-containing wastewaters in an immobilized cell reactor under low dissolved oxygen conditions. 9th International Conference of MIKROBIOKOSMOS, 16-18 December, Athens, Greece.

C58. Makri, A., **Ntougias, S.**, Melidis, P. (2022). Use of rumen fluid to enhance biogas production during two-stage anaerobic digestion of corn straw. 9th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX Conference, 5-9 June, Mykonos Island, Greece.

C59. Stavrakakis, I., Remmas, N., Matziri, D., Melidis, P., **Ntougias, S.** (2022). Effect of 3,3',4',5-tetrachlorosalicylanilide addition on the performance of an activated sludge system. 9th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX Conference, 5-9 June, Mykonos Island, Greece.

C60. Stavropoulou, E., Remmas, N., Voidarou, C., Rozos, G., Tsakris, Z., Vaou, N., Constantinidis, T. C., Vrioni, G., **Ntougias, S.**, Tsakris, A. (2022). Unveiling antimicrobial activity of honey. 41st International Congress of the Society for Microbial Ecology in Health and Disease (SOMED), 14-16 June, Alexandroupolis, Greece.

C61. Stavrakakis, I., Remmas, N., Melidis, P., **Ntougias, S.** (2022). Reduction of excess sludge production in a MBR system using the chemical uncoupler 2,4,5-trichlorophenol. 3rd Online Symposium on Circular Economy and Sustainability, 27-29 June, Chania, Greece.

C62. Remmas, N., Tsagarakis, K. P., Dimitriou, D., Tsironis, G., **Ntougias S.** (2022). Techno-economic aspects of biomass valorization for biofuel production in Europe. 3rd Online Symposium on Circular Economy and Sustainability, 27-29 June, Chania, Greece.

C63. Makri, A., **Ntougias, S.**, Melidis, P. (2022). Biogas production from lignocellulose-rich agro-industrial wastes. 9th International Conference on Engineering for Waste and Biomass Valorisation - WasteEng2022, 27-30 June, Copenhagen, Denmark.

C64. Bakalakou, A.-A., Papaevangelou, V., Latinopoulos, D., Makri, A., Azis, K., Kagalou, I., Melidis, P., **Ntougias, S.**, Akrotos C.S. (2022). Monitoring field campaign in two torrent basins in Eastern Macedonia and Thrace Region. International Conference "Protection & Restoration of the Environment - PREXVI", 5-8 July, Kalamata, Greece.

C65. Zerva, I., Stavrakakis, I., Gropali, A., Latinopoulos, D., Melidis, P., Akratos, C.S., Kagalou, I., **Ntougias, S.** (2022). Assessment of microbiological quality of Lissos river, Thrace, Greece. International Conference "Protection & Restoration of the Environment - PREXVI", 5-8 July, Kalamata, Greece.

D. NATIONAL CONFERENCES

D1. Patiris, M., Bitzilekis, S., **Ntougias, S.** and Siafaka-Kapadai, A. (1995). Incorporation of (³H)-oleic acid into platelet lipids and mobilization after stimulation with platelet activating factor (PAF) and thrombin. In: 16th National Conference in Chemistry, December 5-8, Association of Greek Chemists, Athens, Greece

D2. Kavroulakis, N., Tripolitsioti, N., Damaskinou, A., **Ntougias, S.**, Ehaliotis, C., Zervakis, G. and Papadopoulou, K. K. (2004). Microflora of composted agricultural by-products exhibiting suppressive activity against fungal pathogens of tomato. In: 12th Hellenic Phytopathological Congress, 12-15 October, Hellenic Phytopathological Society, Kastoria, Greece.

D3. **Ntougias, S.**, Mpoftsi, S., Kavroulakis, N., Ehaliotis, C., Papadopoulou, K. and Zervakis G.. (2005). Degradation of olive mill by-products with the use of indigenous micro-organisms, pp. 305-309. In: 1st National Congress on Biotechnology and Food Technology, 31st of March to 2nd of April, Association of Greek Chemists and Hellenic Association of Chemical Engineers, Athens, Greece.

D4. Kavroulakis, N., Papadopoulou, K. K., **Ntougias, S.**, Ehaliotis, C. and Zervakis G. I. (2006). Induction of systemic resistance and colonization of tomato plants by a non-pathogenic *Fusarium solani* strain. In: 13th Hellenic Phytopathological Congress, 16-19 October, Hellenic Phytopathological Society, Athens, Greece.

D5. Katsaveli, K., **Ntougias, S.**, Tsiamis, G. and Bourtzis, K. (2006). Microbial diversity of the Messolonghi salterns. In: 58th National Conference on Biochemistry and Molecular Biology, Hellenic Society for Biochemistry and Molecular Biology, 9 - 11 November, Patra, Greece.

D6. Katsaveli, K., **Ntougias, S.**, Tsiamis, G. and Bourtzis, K. (2006). Detecting the biodiversity of halophilic microorganisms in Messolonghi salterns, p. 98. In: Biosciences in 21st century, 13-15 April, Panhellenic Association of Bioscientists, Athens, Greece.

D7. Kavroulakis, N., Papadopoulou, K., Ehaliotis, C., Zervakis G. and **Ntougias, S.** (2006). Study of pathogenesis-related gene expression in tomato plants grown on organic substrates, p. 93. In: Biosciences in 21st century, 13-15 April, Panhellenic Association of Bioscientists, Athens, Greece.

D8. **Ntougias, S.** and Zervakis G.I. (2008). Microbial diversity in olive mill wastes. In: 1st MikroBioKosmos Conference, 12-14 December, MikroBioKosmos, Athens, Greece.

D9. Tsiamis, G., Katsaveli, K., **Ntougias, S.**, Kyrpides, N., Andersen, G., Piceno, Y., Bourtzis, K. (2008). Application of a 16S rDNA oligonucleotide microarray (PhyloChip) for profiling prokaryotic diversity and community shifts from the Messolonghi solar saltern. In: 1st MikroBioKosmos Conference, 12-14 December, Athens, Greece.

- D10.** Mparmopoyloy, E., **Ntougias, S.**, Zervakis, G., Papadakis, I., Psaras, G. and Kavroulakis, N. (2009). Isolation and characterization of a *Pythium* strain with possible phytopathogenic effects on Avocado trees, p. 127. In: 24th Conference of the Hellenic Society of Horticulture, Hellenic Society of Horticulture, 20-23 October, Veria, Greece.
- D11.** Chatzikamari, M., Melidis, P. and **Ntougias, S.** (2011). Molecular characterization of fungi isolated from an intermittently aerated and fed activated sludge system. In: 4th MikroBioKosmos Conference, 21-23 October, MikroBioKosmos, Ioannina, Greece.
- D12.** **Ntougias, S.** (2011). Characteristics and potential uses of olive mill wastes. In: Modern operation of olive mills for product quality and environmental sustainability, 4 November, Geotechnical Chamber of Greece, Kalamata, Greece (Invited speaker).
- D13.** Kapagiannidis, A., Navrozidou, E., Pavlineri, N. and **Ntougias, S.** (2012). Revealing bacterial diversity in a continuous-flow EBPR system. In: 5th MikroBioKosmos Conference, 13-15 December, MikroBioKosmos, Athens, Greece.
- D14.** **Ntougias, S.**, Klenk, H.-P., Woyke, T., Kyrpides, N.C. and Zervakis, G.I. (2012). *Olivibacter sitiensis* revisited – Data from genome sequence analysis, pp. 158-159. In: 5th MikroBioKosmos Conference, 13-15 December, MikroBioKosmos, Athens, Greece.
- D15.** **Ntougias, S.**, Soultani, D. and Melidis, P. (2012). Microbial community structure in the acidogenic reactor of a two-stage anaerobic digestion system, treating cheese-whey wastewater. In: 5th MikroBioKosmos Conference, 13-15 December, MikroBioKosmos, Athens, Greece.
- D16.** Alexandropoulou, I., Zerva, I., Panopoulou, M. and **Ntougias, S.** (2015). Diversity of antibiotic resistance genes in biological wastewater treatment plants. In: 6th MikroBioKosmos Conference, 3-5 April, MikroBioKosmos, Athens, Greece.
- D17.** Markakis, E., Kavroulakis, N., **Ntougias, S.**, Koubouris, G., Ligoxigkakis, E. (2015). Characterization of *Fomitiporia mediterranea* isolates originating from woody hosts and vitis. In: 6th MikroBioKosmos Conference, 3-5 April, MikroBioKosmos, Athens, Greece.
- D18.** Remmas, N., Melidis, P., Katsioui, E. and **Ntougias, S.** (2015). Denitrifying community dynamics in an intermittently aerated and fed membrane reactor treating landfill leachate via the implementation of pyrosequencing techniques. In: 6th MikroBioKosmos Conference, 3-5 April, MikroBioKosmos, Athens, Greece.
- D19.** Stathopoulou, P., **Ntougias, S.**, Żaneta Polkowska, Nikolaki, S., Dionyssopoulou, E., Doudoumis, V., Ruman, M., Kozak, K., Namieśnik, J. and Tsiamis, G. (2015). Characterization of bacterial community structures in different glacier fields of Svalbard Archipelagos. In: 6th MikroBioKosmos Conference, 3-5 April, MikroBioKosmos, Athens, Greece.
- D20.** Remmas, N., Chatzopoulou, M., **Ntougias, S.** and Melidis, P. (2015). Optimization of nitrogen removal process from landfill leachate in a full-scale SBR system. In: 3rd Joint Conference EYE-EEDYP-EYS on Integrated Water Resources Management in the New Era, 10-12 December, Athens, Greece.

D21. Ntougias S. (2016). Microbial aspects of cheese whey wastewater acidification. In: “Applied Biotechnology, Biodegradation and Environmental Management: Bridging the Gap between Academia and Industry”, January 28-29, Agrinio, Greece.

D22. Ntougias S. (2016). Management of olive mill wastes and biotechnological applications. In: Olive – Cultivation, Environment, Health, ELAIA 2016. Organized by University of Patras & Chamber of Aitolokarnania, 25-26 November, Agrinio, Greece (Invited speaker).

D23. Zerva I., Kagkalou I., Ntougias, S. (2017). Effect of chlorination on the microbiological effluent quality of a municipal wastewater treatment plant), pp. 195-196. In: 7th MikroBioKosmos Conference, 7-9 April, MikroBioKosmos, Athens, Greece.

D24. Remmas N., Melidis P. and Ntougias S. (2017). Biotechnological potential of novel extremophiles from landfill leachate, pp. 270-271. In: 7th MikroBioKosmos Conference, 7-9 April, MikroBioKosmos, Athens, Greece.

D25. Azis K., Melidis P., Ntougias S. and Kokkinis P. (2017). Advanced activated sludge processes operation control. In: 6th Environmental Conference of Macedonia, 5-7 May, Thessaloniki, Greece.

D26. Vakalounakis, D.J., Ntougias, S., Protopapadakis, E., Kavroulakis, N. (2018). The fungi *Diaporthe foeniculina* and *Neofusicoccum parvum* are pathogenic causes of twig and branch necrosis of citrus in Greece. In: 19th Hellenic Phytopathological Congress, 30 October – 1 November, Hellenic Phytopathological Society, Athens, Greece.

D27. Remmas, N., Zerva, I., Ntougias S. (2019). Hydrolytic potential of microbiota treating orange juice processing waste in a methanogenic bioreactor. In: 8th MikroBioKosmos Conference, 18-20 April, Rio – Patras, Greece.

D28. Navrozidou, E., Remmas, N., Melidis, P., Ntougias, S. (2019). Degradation efficiency of a laboratory-scale bioreactor treating wastewater of high ibuprofen concentration. In: 8th MikroBioKosmos Conference, 18-20 April, Rio – Patras, Greece.

D29. Zerva I., Remmas N., Melidis P., Ntougias S. (2019). Hydrolytic microorganisms isolated from an immobilized cell bioreactor treating red-pepper processing wastewater. In: 8th MikroBioKosmos Conference, 18-20 April, Rio – Patras, Greece.

D30. Mavriou, Z., Alexandropoulou, I., Melidis, P., Karpouzas, D.P., Ntougias, S. (2019). Monitoring of the degradation of imazalil in a laboratory-scale immobilized cell bioreactor. In: 8th MikroBioKosmos Conference, 18-20 April, Rio – Patras, Greece.

ACADEMIC AND DEPARTMENTAL RESPONSIBILITIES

Head of the Department of Environmental Engineering, Democritus University of Thrace (Sep. 2020 - present)

Director of the M.Sc. programme “The Technologies of Environmental Legislation”, Department of Environmental Engineering, Democritus University of Thrace (July 2020 - present)

Member of the Senate of the Democritus University of Thrace (Sep. 2020 - present)

SCIENTIFIC MEMBERSHIPS

Member of the Greek Initiative “MikroBioKosmos”

Association of Greek Chemists

FOREIGN LANGUAGES-COMPUTING SKILLS-OTHER ACTIVITIES

Greek, mother tongue.

English: excellent knowledge of the written and spoken language.

ECDL (European Computer Driving License) certification.

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