PERSONAL INFORMATION	
Name Address	LASPIDOU, CHRYSI ASSOCIATE PROFESSOR CIVIL ENGINEERING DEPARTMENT UNIVERSITY OF THESSALY PEDION AREOS
Telephone E-mail Profiles	38334 VOLOS         GREECE         +30 24210 74147 / +30 6972621998         laspidou@uth.gr         Research Gate: https://www.researchgate.net/profile/Chrysi_Laspidou/?ev=hdr_xprf         Google Scholar: http://scholar.google.gr/citations?user=6kqbk3UAAAAJ&hl=en
Citizenship	Greek and U.S.
EDUCATION AND TRAINING	
• Dates (from – to) • Name and type of organization providing education and training • Principal subjects • Title of qualification awarded	<b>1996-2003</b> <i>Northwestern University,</i> <i>Department of Civil and Environmental Engineering</i> Ecosystem modeling; Water quality; Water & ICT; Hydroinformatics Ph.D.
<ul> <li>Dates (from – to)</li> <li>Name and type of organization providing education and training</li> <li>Principal subjects</li> <li>Title of qualification awarded</li> </ul>	<b>1989-1993</b> The University of Texas at Austin Department of Civil and Environmental Engineering (M.Sc.); Department of Mechanical Engineering (B.Sc.) Supercritical Water Oxidation, Particle behavior in high temperature and pressure environment M.Sc. (1993) and B.Sc. (1992)
PROFESSIONAL EXPERIENCE	
<ul> <li>Dates (from – to)</li> <li>Name and address of institution</li> <li>Occupation held</li> </ul>	2003-TODAY UNIVERSITY OF THESSALY PEDION AREOS GR-38334 VOLOS - GREECE Associate Professor, Dept. of Civil Engineering, (2006-today).
• Main activities	<ul> <li>Has held joint appointments in the following departments:         <ul> <li>Dept. of Civil Engineering (lecturer, 2003-2006)</li> <li>Dept. of Mechanical Engineering (2003-2010)</li> <li>Dept. of Urban Planning (2007-2013)</li> <li>Department of Biochemistry and Biotechnology (2003-2005)</li> </ul> </li> <li>Post Doctoral Research Associate, Department of Civil Engineering (2005 – 2006).         <ul> <li>Teaching and research / Major fields:</li> <li>Water &amp; Information and Communication Technologies—ICT; Smart water and Hydroinformatics; Mathematical modelling of physical-chemical, biological and biochemical processes in water for the simulation of aquatic ecosystems, Ecological engineering, Mathematical modelling of biofilm structures, Virtual water / water footprint calculation</li> </ul></li></ul>
Dates (from – to) • Name and address of institution	2008-2010 DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING NATIONAL TECHNICAL UNIVERSITY OF ATHENS IROON POLYTECHNIOU 5 GR-15780 ZOGRAFOU
<ul> <li>Occupation held</li> <li>Main activities</li> </ul>	Adjunct Lecturer (under contract) Teaching and research: Environmental Impact Assessment Studies, Aquatic Chemistry, Sustainable Development

RESEARCH ACTIVITY	
• Dates (from – to)	<b>3/2017-2/2021</b>
• Funding provided by:	<i>EU: Horizon2020 Marie Skłodowska-Curie Research and Innovation Staff Exchanges (RISE)</i>
• Project Title / Acronym and	Holistic Surface Water and Groundwater Management for Sustainable Cities—Water4Cities;
Coordinator	Coordinator: S. Pandelopoulos, SingularLogic, GR
• Position in Project	Coordinator for the University of Thessaly (UTH); Work Package Leader
• Project Budget	1,242,000 euros in total; 135,000 euros for UTH
• Dates (from – to) • Funding provided by: • Project Title / Acronym and Coordinator • Position in Project • Project Budget	<b>6/2016-5/2020</b> EU: Horizon2020 Water-2b Sustainable Integrated Management for the Nexus of water-land-food-energy-climate for a resource-efficient Europe—SIM4NEXUS; Coordinator: Floor Brouwer, Wageningen-LEI, The Netherlands Coordinator for the University of Thessaly (UTH); Work Package Leader 7,895,658 euros in total; 445,938 euros for UTH
• Dates (from – to)	1/2014-6/2016
• Funding provided by:	Hellenic Ministry of the Environment, Program "ARISTEIA"EXCELLENCE
• Project Title / Acronym and	Lakes under Reconstruction: Mathematical Modeling of <i>Microcystis aeruginosa</i> —
Coordinator	LAKEREMAKE; Coordinator: Chrysi Laspidou, UTH
• Position in Project	Project Coordinator
• Project Budget	200,000 euros in total
• Dates (from – to)	2/2014-1/2017
• Funding provided by:	<i>EU: FP7-ICT-2013-11</i>
• Project Title / Acronym and	Integrated Support System for Efficient Water Usage and Resources Management—ISS-
Coordinator	EWATUS; Coordinator: Ewa Magiera, University of Silesia, Poland
• Position in Project	Coordinator for partner Center for Research and Technology Hellas (CERTH)
• Project Budget	3,377,632 euros in total; 544,300 euros for CERTH
• Dates (from – to)	<b>12/2013-8/2017</b>
• Funding provided by:	<i>EU: FP7-OCEAN-2013</i>
• Project Title / Acronym and	<i>Sensing toxicants in Marine waters makes Sense using biosensorsSMS</i> ; Coordinator: Prof. G.
Coordinator	Palleschi, Universita Degli Studi di Roma tor Vergata, Italy
• Position in Project	Work Package Leader for partner UTH; UTH Coordinator: Prof. Tassiulas
• Project Budget	5,559,819 euros in total; 623,080 euros for UTH
• Dates (from – to)     • Funding provided by:     • Project Title and Coordinator     • Position in Project     • Project Budget	<b>1/2012-12/2014</b> Hellenic Ministry of the Environment, Program "ARCHIMEDES III" Development of an integrated monitoring system for the simulation and water resources management with an environmental and socio-economic dynamics—implementaiton in lake Karla; Coordinator: Prof. Samaras, Technological Educational Institute of Larisa, Greece Researcher for partner UTH; UTH Coordinator: Prof. Loukas 180,000 euros in total
• Dates (from – to) • Funding provided by: • Project Title and Coordinator • Position in Project • Project Budget	<b>5/2011-6/2014</b> Hellenic Ministry of the Environment, Program "SYNERGASIA" Development of an integrated monitoring system and quantity and quality water resources for agricultural river basins under climate change conditionHYDROMENTOR; Coordinator: Prof. Loukas, UTH Researcher for UTH 200,000 euros in total

## LIST OF SELECTED PUBLICATIONS

## According to Google Scholar (scholar.google.com), the work of Chrysi Laspidou currently has 1489 citations, last accessed on November 7, 2016.

- Papadimitriou T., Kormas K., Dionysiou D.D. and C.S. Laspidou. 2016. Using H<sub>2</sub>O<sub>2</sub> treatments for the degradation of cyanobacteria and microcystins in a shallow hypertrophic reservoir, *Environmental Science Pollution Research*, <u>DOI</u> <u>10.1007/s11356-016-7418-2</u>
- Kopasakis K., Laspidou C., Spiliotopoulos M., Kofinas D. and Mellios N. 2016. Numerical Investigation of Wind Driven Circulation and Horizontal Dispersion in the Surface Layer of a Re-flooded Shallow Lake, *Environmental* processes, DOI: 10.1007/s40710-016-0165-z.
- Archimandritis A., Papadimitriou Th., Kormas K., Laspidou C., Yannakopoulou K. and Lazarou G. 2016. Theoretical investigation of microcystin-LR, microcystin-RR and nodularin-R complexation with α-, β-, and γ-cyclodextrin as a starting point for the targeted design of efficient cyanotoxin traps, *Sustainable Chemistry and Pharmacy*, 3: 25-32.
- 4. Kokkinos K., Papageorgiou E., Poczeta K. and Laspidou C. 2016. Soft Computing Approaches for Urban Water Demand Forecasting, *Smart Innovation, Systems and Technologies*, **57**: 357-367. DOI: <u>10.1007/978-3-319-39627-9\_31</u>
- 5. Kokkinos K., Samaras N., Laspidou C. and Loukas A. 2015. Modeling of Hydrological and Environmental Processes through OpenMI and Web Services, *European Scientific Journal*, special edition: 70-82.
- 6. Laspidou C., Papageorgiou E., Kokkinos K., Sahu S., Gupta A. and Tassiulas L. 2015. Exploring patterns in water consumption by clustering, *Procedia Engineering*, **119**:1439-1446.
- 7. Mellios N., Kofinas D., Laspidou C. and T. Papadimitriou. 2015. Mathematical Modeling of Trophic State and Nutrient Flows of Lake Karla using the PCLake Model, *Environmental Processes*, DOI:10.1007/s40710-015-0098-y.
- Papageorgiou E., Poczeta K., Yastrebov A. and Laspidou C. 2015. Fuzzy Cognitive Maps and Multi-step Gradient Methods for Prediction: Applications to Electricity Consumption and Stock Exchange Returns, *Intelligent Decision Technologies, Smart Innovation, Systems and Technologies*, 39: 501-511. DOI: 10.1007/978-3-319-19857-6\_43
- Emmanouil C., Laspidou C. and Kungolos A. 2015. PREFACE, *Toxicological and environmental chemistry*, 97(1): 1-1. DOI: <u>10.1080/02772248.2015.1048600</u>
- Kofinas D., Mellios N., Papageorgiou E. and C. Laspidou. 2014. Urban Water Demand Forecasting for the Island of Skiathos, *Procedia Engineering*, 89:1023-1030.
- 11. Laspidou C. 2014. Grey water footprint of crops and crop-derived products: Analysis of calculation method, *Fresenius Environmental Bulletin*, 23(11a):2899-2904.
- 12. Laspidou, C.S., Kagalou, I., Chamoglou, M. and Papadimitriou, Th. 2013. Predicting Microcystin Concentration in Lake Karla Using Multiple Regression Techniques, *European Water, in press.*
- 13. Laspidou, C.S. and Samantzi, V. 2014. Identifying and quantifying non-point pollution sources in the Penios river basin district, *Toxicological & Environmental Chemistry* 97(1):90.
- 14. Laspidou C.S. 2014. ICT and stakeholder participation for improved urban water management in the cities of the future, *Water Utility Journal* 8:79-85.
- 15. Laspidou, C.S. 2014. Erosion probability for biofilm modeling: Analysis of trends, *Desalination and Water Treatment*, 52(34-36):6342.
- 16. Laspidou, C.S., Spyrou, L.A., Aravas, N. and B.E. Rittmann 2013. Material Modeling of Biofilm Mechanical Properties, *Mathematical Biosciences*, 251:11-14.
- 17. Laspidou C., Liakopoulos A. and M. Spiliotopoulos 2012. "A 2D cellular automaton biofilm detachment algorithm" *Lecture Notes in Computer Science* 7495: 415-424.
- 18. Laspidou C. and V. Charisiou-Kalliantopoulos 2012. "Design and techno-economic analysis of a photovoltaic system installed on a house in Xanthi, Greece" *Fresenius Environmental Bulletin* **21(8c)**:2494-2498.
- 19. Laspidou C., Nydreos-Sakouelos P. and A. Kungolos 2012. "Carbon footprint calculation of desalination units in Greece" *Fresenius Environmental Bulletin* **21(8b)**:2344-2349.
- 20. Hadjibiros K., Dermatas D. and C. Laspidou 2011. "Municipal solid waste management and landfill site selection in Greece: Irrationality versus efficiency" *Global NEST Journal*, **13(2)**:150-161.
- 21. Laspidou C.S., I. Kakoulidis and A. Loukas 2011. "Ecosystem simulation modeling of nitrogen dynamics in the constructed wetland Carla in Greece" *Desalination and Water Treatment* **33**:61-67.
- 22. Gialis S., Loukas A. and **C.S. Laspidou** 2011. "Theoretical perspectives and empirical facts on water sector privatization: the Greek case against European and global trends" *Water Resources Management* 25:1699-1719.

- 23. Hadjibiros K., Aravantinou M. and Laspidou C. 2011. "Organization and Evaluation of a Sustainable Islands Network" *Int J of Sustainable Development & Planning*, 6(1):13-20.
- 24. Laspidou C.S., Gialis S.E., Loukas A. and A. Kungolos. 2011. "Analysis and evaluation of the operational status of municipal wastewater treatment plants in the Dodecanese prefecture in Greece," *Water Policy*, 13:287-297.
- Laspidou C.S., Hadjibiros K. and S. Gialis. 2010. "Minimizing the environmental impact of sea brine disposal by coupling solar-powered desalination plants with solar saltworks: a case study for Greece," *Water* 2:75-84 (doi:10.3390/w2010075).
- 26. Laspidou C.S., Kungolos, A. and P. Samaras. 2010. Cellular-Automata and Individual-Based Approaches for the Modeling of Biofilm Structures: Pros and Cons. *Desalination*, **250**: 390-394.
- 27. Laspidou C.S. and Vaina V. 2009. Ecosystem modeling of sediment dynamics in the constructed wetland Carla in Central Greece. *International Journal of Design & Nature and Ecodynamics*, **3**(4):273-280.
- 28. Aravas N. and Laspidou C. 2008. On the calculation of the elastic modulus of a biofilm streamer. *Biotechnology and Bioengineering*, 101(1): 196-200.
- 29. Laspidou C.S., Kungolos A. and P. Samaras. 2007. Advances in mathematical modeling of biofilm structures. *WIT Transactions on Ecology and the Environment*, 103, pp. 231-240. DOI:<u>10.2495/WRM070221</u>
- Laspidou C.S., Aravas N. 2007. Variation in the mechanical properties of a porous multi-phase biofilm under compression due to void closure. *Water Science and Technology*, 55(8-9), 447–453.
- 31. Laspidou C.S., Rittmann B.E. and S.A. Karamanos. 2005. Finite-element modeling to expand the UMCCA model to describe biofilm mechanical strength. *Water Science and Technology*, **52**(7), 161-166.
- 32. Laspidou C.S. and B.E. Rittmann. 2005. Modeling biofilm complexity by including active and inert biomass and EPS. *Biofilms*, vol. 1 issue 4, pg. 285-291.
- 33. Laspidou C.S. and B.E. Rittmann. 2004a. Modeling the development of biofilm density including active bacteria, inert biomass and extracellular polymeric substances. *Water Research*, vol.38, issue 14-15, pp. 3349-3361.
- 34. Laspidou, C.S. and B.E. Rittmann. 2004b. Evaluating trends in biofilm density using the UMCCA model. *Water Research*, 38(14-15):3362-3372.
- 35. Laspidou, C.S. and Rittmann, B.E. 2002a. A unified theory for extracellular polymeric substances, soluble microbial products, and active and inert biomass *Water Research*, **36**:2711-2720.
- 36. Laspidou, C.S. and Rittmann, B.E. 2002b. Non-steady state modeling of extracellular polymeric substances, soluble microbial products, and active and inert biomass *Water Research*, **36**, pp. 1983-1992.
- 37. Rittmann B. E. and Laspidou C. S. 2001. Biofilm Detachment. In: *The Encyclopedia of Environmental Microbiology*, G. Bitton, ed., John Wiley & Sons, Inc., New York.
- Rittmann, B.E.; Laspidou, C.S.; Flax, J; Stahl, D.A.; Urbain, V.; Harduin, H.; van der Waarde, J.J.; Geurkink, B; Henssen, M.J.C.; Brouwer, H.; Klapwijk, A. and M. Wetterauw. 1999. Molecular and modeling analyses of the structure and function of nitrifying activated sludge, *Water Science and Technology*, 39(1), pp. 51-59.
- Laspidou, C.S.; Lawler, D.F.; Gloyna, E.F. and B.E. Rittmann. 1999. Heater Effects on Cyclone Performance for the Separation of Solids from High Temperature and Pressure Effluents, *Separation Science and Technology*, 34(15), pp. 3059-3076.