


Curriculum Vitae 	Personal Informations Name: ELISAVET Surname: AMANATIDOU Address: Ag. Paraskevis 37A, 50100 Kozani Tel.: 24610 68015, 68012 (lab.) Email: eamanatidou@teiw.m.gr
Position	14/03 2017 until today: Professor of Environmental Engineering and Pollution Control Department of Western Macedonia University of Applied Sciences
Studies	Chemical Engineering Diploma, 1983, Very Good (8) Post graduate diploma of the College for Educators in Professional and Technical Institutions, SELETE, Thessaloniki, 1997 PhD in Advanced Waste Water Treatment, 1992
Foreign languages:	French very good Romanian excellent English good
Taught Courses:	— Environmental Chemistry — Wastewater Treatment and Disposal — Advanced & Modern Processes of Wastewater Treatment — Environmental Legislation — Quality Control Systems
Research group	Environmental Chemistry and Water & Wastewater Treatment Laboratory (accredited according to ISO 17025)
Research interests	The major research fields are water quality monitoring and water & wastewater treatment and management. More analytically: <ul style="list-style-type: none"> • Water and Waste Water Treatment and Management: Advanced and Modern Processes of water and waste water treatment, nutrients removal, membrane separations, etc. • Design and optimization of operation of waste water treatment installations • Electrooxidation, Electrocoagulation, Electroflotation • Water quality monitoring • Measurement Uncertainty of water and wastewater quality parameters The Laboratory's research team implements independent research (and publications) with semantic performance in the field of the: <ul style="list-style-type: none"> - excess sludge reduction (produced in the biological wastewater treatment) - - redefining the biological wastewater treatment plants design parameters and constants, in complete sludge retention conditions.
Qualifications	<ul style="list-style-type: none"> • Excellent knowledge and experience in designing water and wastewater treatment facilities • Excellent experience in chemical and microbiological analysis • Excellent knowledge of Quality Management Systems implementation, and validation of analytical methods • Special experience in the Environmental problems in the area of Western Macedonia
Administrative and organizational ability	Grand administrative and organizational experience: <ul style="list-style-type: none"> • Participation in the organization of the Fur Centre S.A. Laboratory in Kastoria-Greece (1998). • Organization of the Purely Prefectional Enterprise of Kozani “Environmental Centre” (KEPE), Prefecture of Kozani-Greece (1999-2004). • 4,5 years General Director of the Purely Prefectional Enterprise of Kozani “Environmental Centre”, Prefecture of Kozani-Greece (1999-2004). • Organization (2001) of KEPE Laboratory (and its ISO 17025).

	<ul style="list-style-type: none"> • Organisation of the “Pollution Control Technologies Department” of Technological Educational Institution (TEI) of West Macedonia (2000). • Organization of the Environmental Chemistry and Wastewater Treatment Laboratory (2005) of Environmental Engineering and Pollution Control Department of Technological Educational Institute of Western Macedonia (and its ISO 17025). • Delegation Member of Technical Chamber of Greece / Dep. of Western Macedonia in the period 2000 to November 2013. • Member of Administrative Committee of Technical Chamber of Greece / Dep. of Western Macedonia in the period: 2003-2007 and 2008-2010. • General Secretary of the Administrative Committee of Technical Chamber of Greece / Dep. of Western Macedonia in the period 16/02/2004 to 21/03/2007. • Member of Administrative Council of Purely Prefectional Enterprise of Kozani “Environmental Centre”, Prefecture of Kozani - Greece in the period 2007 to September 2009. • Member of the Committee of the Special Account for Research Funds (ELKE) of TEI of Western. Macedonia from September 2013 to March 2017. • Organization of an International and a National Scientific Conference. • Deputy Head of Environmental Engineering and Pollution Control Department of Western Macedonia University of Applied Sciences from 1/12/2016 to 31/8/2017. • Head of the Control and Environmental Protection Research Sector, Technological Research Center (KTE), Western Macedonia, from 17-4-2018 to date, ID: ΨΤ314694XΩ-IIP • Director of the Institutionalized and Accredited Laboratory of Environmental Chemistry and Water and Wastewater Treatment from 13-12-2018 until today (FEK 741 / 13-12-2018, issue: Y.O.D.D.
Publications	<ul style="list-style-type: none"> • 31 publications in scientific journals (2 under review) • 40 publications in scientific conferences
Scientific references	201
Environmental Chemistry and Wastewater Treatment Lab. Services	The excellent organization of the Environmental Chemistry and Water & Wastewater Treatment Research Laboratory and its Accreditation according to ISO 17025 contributed to the participation in many research programs or specific services with total budget of 6.785.812 € for the period 2007-2019.
Society Memberships:	<ul style="list-style-type: none"> • Technical Chamber of Greece • Member of the Environment Committee of the Technical Chamber of Greece TEE. • Hellenic Association of Chemical Engineers • Member of Ecological Movement of Kozani
PROFESSIONAL & ACADEMIC EMPLOYMENT	
Generally:	
<ul style="list-style-type: none"> • 13 years as chemical engineer (researcher and consultant) • 4,5 years General Director of the Purely Prefectional Enterprise of Kozani “Environmental Centre”, Prefecture of Kozani-Greece • More than 27 years teaching at TEI in similar discipline (about 25 years of independent teaching) • 19 research projects • Number of lectures and presentations to seminars and conferences of professional and scientific institutions in the region after an invitation • Number of studies in the field of water and wastewater management and treatment • Technical-Scientific Consultant to Factories in Greece. • Scientific Collaborator in the Centre for Solid Fuels Technology and Applications (C.S.F.T.A.). • Scientific Collaborator in the Macedonia Research Centre (MARC). • Reviewer in 11 scientific journals and member of International Scientific Conference Committee 	
REPRESENTATIVE PUBLICATIONS IN LAST FIVE YEARS:	
1. Amanatidou, E. Trikilidou, G. Samiotis, N. Taousanidis and Lazaros Tsikritzis, “Centennial assessment	

- of greenhouse gases emissions of a young and an old 1 hydroelectric reservoir in Mediterranean mainland” Journal of Environmental Informatics, J., 2019 Manuscript Num: JEI 16JM092719C.
2. THEOFANIDIS S.A., SAMIOTIS G., BELLOS D. PEKRIDIS G., TSIOPSTIAS C. AND AMANATIDOU E*, ‘Challenges in biological treatment plants: the approach of zero sludge waste’, 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece, ACCEPTED.
 3. TSIOPSTIAS C., SAMIOTIS G., KAKLIDIS N., PEKRIDIS G. AND AMANATIDOU E.*, ‘Greenhouse Gas Emissions from Natural and Artificial Lakes in Western Macedonia, Greece’, 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece ACCEPTED.
 4. STAMOS A., SAMIOTIS G., PEKRIDIS G., TSIOPSTIAS C. and AMANATIDOU E.*, ‘Natural presence of hexavalent chromium in spring waters of South-West Mountain Vermion, Greece’, 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece ACCEPTED.
 5. Samiotis Georgios^{1*}, Tzelios Dimitrios¹; Trikoilidou Eleni¹; Koutelias Alexandros and Amanatidou Elisavet¹, ‘Innovative approach on aerobic activated sludge process towards more sustainable wastewater treatment’, 3rd EWaS International Conference on “insights on the Water-Energy-Food Nexus”, 27 to 30 June 2018, Lefkada Island, Greece.
 6. Elisavet Amanatidou^{1*}, Eleni Trikoilidou¹, Georgios Samiotis¹, Lazaros Tsikritzis¹, Nikolaos Taousanidis², ‘Performance of Semi-Micro-Kjeldahl Nitrogen Method - Uncertainty and Nitrate Interference’, ACCEPTED to MAPAN-Journal of Metrology Society of India, CTS_MAPAN_1247_01062010, 2018
 7. Georgios Samiotis^{1*}, Eleni Trikoilidou¹, Lazaros Tsikritzis¹ and Elisavet Amanatidou¹, "Comparative water quality assessment between a young and a stabilized reservoir in Aliakmon River, Greece" J. Environmental Monitoring and Assessment, April 2018, 190: 234. <https://doi.org/10.1007/s10661-018-6602-x>
 8. Samiotis Georgios^{1*}, Pekridis Giorgos¹, Kaklidis Nikolaos³, Trikoilidou Eleni¹, Taousanidis Nikolaos², Amanatidou Elisavet¹, ‘Greenhouse gases emissions from two hydroelectric reservoirs in Mediterranean region’, J. Environmental Monitoring and Assessment, 190(6), June 2018, DOI: 10.1007/s10661-018-6721-4.
 9. Elisavet Amanatidou, Eleni Trikoilidou, George Pekridis, George Samiotis, Lazaros Tsikritzis, Nikolaos Taousanidis, Stavros Karapanos, «Pollution sources in water of young reservoirs - Case of Ilarion Hydroelectric Dam, Greece», Environmental Engineering and Management Journal, Environmental Engineering and Management Journal, Volume 17, No. 9/2018.
 10. Eleni Trikoilidou^{1*}, Georgios Samiotis¹, Lazaros Tsikritzis¹, Theodoros Kevrekidis² and Elisavet Amanatidou¹, ‘Evaluation of Water Quality Indices Adequacy in Characterizing the Physico-Chemical Water Quality of Lakes’, Journal: Environmental Processes / March 2017, DOI: 10.1007/s40710-017-0218-y
 11. FaniIakovidou^{1*}; EleniTrikoilidou¹; Georgios Samiotis¹; Lazaros Tsikritzis¹ and Elisavet Amanatidou¹, ‘Development of an updated water quality index based on legislation and experts’ opinion’, 10th World Congress of EWRA on Water Resources and Environment, Athens, 5-9 July 2017.
 12. Elisavet Amanatidou, Georgios Samiotis, Eleni Trikoilidou, Lazaros Tsikritzis, ‘Particulate organics degradation and sludge minimization in aerobic, complete SRT bioreactors’, Water Research Volume 94, 1 May 2016, Pages 288–295, DOI 10.1016/j.watres.2016.02.008.
 13. G. Samiotis^{1*}, E. Trikoilidou¹, A. Michailidis¹, E. Zagana² and E. Amanatidou¹, ‘Comparative water quality assessment of a new and an old reservoir in Aliakmon River using both statistical tools and a modified NSF water quality index’, 13th International Conference on Protection and Restoration of the Environment, Mykonos island, Greece, | 3rd to 8th of July, 2016.
 14. E. Trikoilidou^{1*}, G. Samiotis¹, Bellos D. and E. Amanatidou¹, ‘Sustainable operation of biological wastewater treatment plants’, Conference on Innovative Manufacturing Engineering & Energy, IManEE 2016, 20th Edition, “Science and Engineering in the land of Aristotle”, Kallithea Chalkidiki, Greece, September 23-25, 2016, <http://www.imane.ro/>.
 15. Amanatidou E¹, Samiotis G¹, Trikoilidou E¹, Pekridis G¹, Tsikritzis L¹, ‘Complete Solids Retention Activated Sludge Process’, Water Science and Technology, 73.6, 2016, Pages 1364 – 1369, DOI: 10.2166/wst.2015.614.
 16. Elisavet Amanatidou, Georgios Samiotis, Eleni Trikoilidou, George Pekridis, Nikolaos Taousanidis, ‘Evaluating sedimentation problems in activated sludge treatment plants operating at complete sludge retention time’ Water Research J, Volume 69, 1 February 2015, Pages 20–29.
 17. Elisavet Amanatidou, Georgios Samiotis, Dimitrios Bellos, George Pekridis, Eleni Trikoilidou «Net bio-

mass production under complete solids retention in high organic load activated sludge process», *Bioresource Technology J.*, 182 (2015) 193–199.

18. Georgios SAMIOTIS¹, Eleni TRIKOILIDOU¹, Avraam MICHAILIDIS¹, Nikolaos TAOUSANIDIS² & Elisavet AMANATIDOU¹, “Influence of wastewater treatment plant’s operational conditions on activated sludge growth” WASTEnet 2015 Scientific Conference, “Sustainable Solutions to Wastewater Management: Maximizing the impact of Territorial Co-Operation” Kavala, Greece, 19th-21st June 2015.
19. N.P. Benetis¹, P. Tziona², G. Samiotis¹, E. Trikoilidou¹, G. Pekridis¹, S. Kottenkov³, E. Amanatidou¹, A. Filippov³, O. Antsutkin³, F. Mocci⁴, A. Laaksonen⁵, D. Galaris⁶, “Bidental ligands - model membrane interaction in a DNA-damage protection, antioxidant mechanism”, *TheoBio 2015*, 7th International Theoretical Biophysics Symposium, Cagliari, Italy, June 8-12 2015.
20. E. Amanatidou, G. Samiotis, E. Trikoilidou, G. Pekridis, D. Bellos, “Complete Solids Retention Activated Sludge Process”, IWA Balkan Young Water Professionals Conference 2015, 10-12 May 2015 Thessaloniki, Greece.
21. Elisavet AMANATIDOU¹, Georgios SAMIOTIS¹, Eleni TRIKOILIDOU¹ & Avraam MICHAILIDIS¹, “Influence of Wastewater Treatment Plants’ Operational Conditions on Activated Sludge Microbiological and Morphological Characteristics” *Environmental Technology J.*, DOI: 10.1080/09593330.2015.1068379, Accepted online: 06 Jul 2015, Published online: 17 Aug 2015.
22. Lazaros Tsikritzis, George Pekridis, Roussa Tsikritzi, Elisavet Amanatidou. “Dispersion and bioaccumulation of trace pollutants emitted by coal fired power plants in West Macedonia Greece”, *FRESENIUS ENVIRONMENTAL BULLETIN (FEB)*, by PSP, Vol. 22, No 2. 2013.
23. Kalliopi Adamidou¹, Lazaros. Tsikritzis^{2*}, A. Georgakopoulos³, George Pekridis², Elisavet Amanatidou², Eleni Trikoilidou² “Major and trace elements of lignite seams and intermediate sterile layers from Kardia lignite field of Ptolemais, Northern Greece” *Fresenius Environmental Bulletin*, Volume 22 – No 11. 2013.

RECENT WRITINGS

1. ^{BOOK} Amanatidou Elisavet. “**Advanced & Modern Processes of Waste Water Treatment**” - Basic Design Principles », Ed. TZIOLA, 2019
2. “**Wastewater Treatment and Disposal**”, Theory Courses, Department of Environmental Engineering and Pollution Control, Technological Education Institution of Western Macedonia, Dr. Amanatidou Elisavet, Chemical Engineering, Assoc. Prof., 2nd Ed.: Kozani, December 2015.
3. “**Wastewater Treatment and Disposal**” Laboratory Courses, Department of Environmental Engineering and Pollution Control, Technological Education Institution of Western Macedonia, Dr. Amanatidou Elisavet, Chemical Engineering, Assoc. Prof., 1st Ed.: Kozani, November 2013.
4. “**Advanced & Modern Processes of Waste Water Treatment**” Theory Courses, Department of Environmental Engineering and Pollution Control, Technological Education Institution of Western Macedonia, Dr. Amanatidou Elisavet, Chemical Engineering, Assoc. Prof., 5th Ed.: Kozani, March 2010.
5. “**Advanced & Modern Processes of Waste Water Treatment – Laboratory Exercises**” Laboratory Courses, Department of Environmental Engineering and Pollution Control, Technological Education Institution of Western Macedonia, Dr. Amanatidou Elisavet, Chemical Engineering, Assoc. Prof., 5th Ed.: Kozani, September 2010.
6. “**Environmental Chemistry- Laboratory Exercises**” Laboratory Courses, Department of Environmental Engineering and Pollution Control, Technological Education Institution of Western Macedonia, Dr. Amanatidou Elisavet, Chemical Engineering, Assoc. Prof., 5th Ed.: Kozani, September 2010.