

Curriculum Vitae

Personal Information

Last Name	:	Keramaris	
First Name	:	Evangelos	
Position	:	Associate Professor	
Academic Field	:	Experimental Hydraulics of Open Conduits	
Work Address	:	International Hellenic University, School of Engineering, Department of Environmental Engineering, P.O. Box 141, 574 00, Sindos, Thessaloniki, Greece.	
Research Interests	:	Hydraulics of Closed and Open Conduits, Flows of Closed and Open Conduits, Experimental Measurements (Hot-Film Anemometry, Particle Image Velocimetry), Computational Hydraulics, Flows in Porous Media, Gravity Currents in Lock-Exchange Experiments, Buoyant Jets in Closed and Open Conduits.	
Contact Details:	:	τηλ.: +302310013960	e-mail: ekeramaris@ihu.gr

Education

1994	Diploma of Aristotle University of Thessaloniki, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering, grade 7.36.
1995-1996	MSc, Department of Civil Engineering, Department of Hydraulics and Environmental Engineering in 1995 and completion of the Master's Studies in the Department of Hydraulics and Environmental Engineering in 1996 (as prerequisites for the preparation of the doctoral thesis)
1996-2001	PhD, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering, grade 10 . The topic of my PhD thesis was: "Turbulent Flow in an Open Channel with a Porous Bed" Supervisor: Professor Panagiotis Prinos.

Professional Experience

1995	Member of Technical Chamber of Greece
1995-2014	Individual Civil Engineer
2002-2014	External Research Associate of Department of Civil Engineering
2004-2013	External Partner of Company «Hydroactotechniki»
2007-2009	External Partner of Company «YETOS»
26/06/2014-31/05/2016	Lecturer, Department of Civil Engineering, University of Thessaly with module "Experimental Hydraulics" (FEK 804, Issue Γ, 26/06/2014).

01/06/2016-06/02/2020	Assistant Professor, Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics” (FEK 491, Issue Γ, 01/06/2016).
07/02/2020-13/05/2021	Assistant Professor (Tenured), Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics” (FEK 125, Issue Γ, 07/02/2020).
14/05/2021-21/06/2022	Associate Professor, Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics” (FEK 1098, Issue Γ, 14/05/2021). Member of Laboratory of Hydromechanics and Environmental Engineering.
22/06/2022-today	Associate Professor, Department of Environmental Engineering, International Hellenic University with module “Experimental Hydraulics of Open Conduits” (FEK 641, Issue Γ, 21/03/2022).
01/09/2022-today	Director of MSc program of the Department of Environmental Engineering «Design and Construction of Technical Projects», International Hellenic University.
01/09/2023-today	Head of Department of Environmental Engineering, School of Engineering, International Hellenic University, (FEK 751, Τεύχος Υ.Ο.Δ.Δ., 28/07/2023).

Teaching Experience

Undergraduate

A. Department of Civil Engineering, Aristotle University of Thessaloniki

01/10/1996-30/6/2000 Assistant at laboratory exercises of a) «**Fluid Mechanics**» (3rd Semester) and b) «**Hydraulics**» (4th semester) for Civil Engineering Dept., Aristotle University of Thessaloniki.

B. Department of Civil Infrastructure Engineering of Alexander Technological Educational Institute of Thessaloniki

26/03/2002-12/07/2013 Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**River Mechanics**» (7th Semester) theory and laboratory exercises.

06/11/2003-12/07/2013 Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydrology-Groundwater Hydraulics**» (4th semester) theory and laboratory exercises.

16/03/2004-21/02/2006 Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Water Supply**» (5th semester) theory.

01/10/2007-12/07/2013 Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics II**» (4th semester) theory and laboratory exercises.

2017-2019 Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics I**» (3rd semester) theory.

Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Water Supply**» (5th semester) theory.

Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics II**» (4th semester) theory.

Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Sewerage**» (6th semester) theory.

C. Department of Civil Engineering, University of Thessaly

01/09/2010-02/07/2014 Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Experimental Hydraulics**» (8th semester).

17/10/2012-02/07/2014 Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Environmental Fluid Mechanics**» (9th semester).

17/10/2012-02/07/2014 Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Unsteady Flows**» (9th semester).

13/03/2013-15/07/2013 Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Coastal Engineering and Harbor Works**» (8th semester).

01/03/2014-02/07/2014 Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Flows in Natural and Artificial Open Channels**» (8th semester).

2014-2019 Teaching in Department of Civil Engineering in University of Thessaly: «**Environmental Fluid Mechanics**» (9th semester).

2014-15, 2017-18 Co-Teaching in Department of Civil Engineering in University of Thessaly: «**Hydraulics**» (5th semester).

2019-2021 Teaching in Department of Civil Engineering in University of Thessaly: «**Hydraulics**» (5th semester).

2014-2021 Teaching in Department of Civil Engineering in University of Thessaly: «**Unsteady Flows**» (9th semester).

2014-2022 Teaching in Department of Civil Engineering in University of Thessaly: «**Experimental Hydraulics**» (8th semester).

D. Department of Environmental Engineering, International Hellenic University

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- 2019-2022 Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Hydraulics of Closed Conduits**» (3rd semester) theory.
Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Hydraulics of Open Conduits**» (4th semester) theory.
Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Water Supply Systems and Water Treatment**» (5th semester) theory.
Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Sewerage Systems and Network Computing**» (6th semester) theory.
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- 2022-today «**Hydraulics of Closed Conduits**» (3rd semester) theory and laboratory exercises.
«**Hydraulics of Open Conduits**» (4th semester) theory and laboratory exercises.
«**Water Supply Systems and Water Treatment**» (5th semester) theory.
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Postgraduate

E. University of Thessaly

- 2018-2022 Teaching in Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy" «**Water Resources Management and Circular Economy**» (2nd semester, co-teaching with Kanakoudis V.)
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- 2022-2023 Teaching in Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy" «**Flood Protection of Urban and Peri-urban Areas**» (1st semester).
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F. International Hellenic University

- 2018-2023 Teaching in the Postgraduate Studies Program at International Hellenic University in the Department of Environmental Engineering entitled "Design and Construction of Technical Projects" «**Hydraulic and Coastal Projects**» (2nd semester, co-teaching with Y. Savvidis).
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Supervision

G. Undergraduate

Supervision of nine (9) undergraduate theses which are completed at the Department of Civil Infrastructure Engineering of Alexander Technological Educational Institute of Thessaloniki and seventeen (17) undergraduate theses which are completed at the Department of Civil Engineering of the University of Thessaly.

H. Postgraduate

Supervision of three (3) diploma theses, which are completed at the Hellenic Open University, two (2) diploma theses which are completed at International University of Greece, and one (1) diploma thesis which is completed at the Interdepartmental Graduate Program Studies at the University of Thessaly.

I. PhD Thesis

Supervisor

Petikas I., (2017-2020) «Development and implementation of innovative methodologies, software and algorithms (ACPA, BECPA, ARHA, HYDROROLOGY) for the accurate calculation of hydraulic flow characteristics in the design of flood protection projects».

Leousidis A., (2019-2023) «Experimental and computational determination of fluid (water) velocity profiles in an open channels due to spatial temperature changes».

Member of Three-Member Committee of PhD Students

Karamoutsou L., (2016-2020) «Simulation models and risk analysis of water quality parameters in lakes», July 2020.

Kontinis N., (2019-today) «Multicriteria analysis in conflict management of water uses in water systems», in progress.

Member in PhD Thesis Examination Committees

Paschalidis, G., (2015) «Simulation of sediment discharge in a Watershed in the Downstream Dam Area», April 2015. Supervisor: Anagnostopoulos P., Aristotle University of Thessaloniki, (AUTH).

Retsinis E., (2022). « Submerged Step in a Rectangular Channel with Supercritical Upstream Flow», July 2022, Supervisor: Papanicolaou P., National Technical University of Athens (NTUA).

Departmental Administrative Work - Committees

2014-2022 Substitute Member of the Experts Committee for the technical evaluation of public tenders at the Civil Engineering Dept. of University of Thessaly 2014-2022. (Institution Managing Committee Decision 176/8-10-14).

2015-2017 Supervisor of the Students' Practical Training at the Civil Engineering Dept. of University of Thessaly.

2015-2017 Member of the Team of Internal Evaluation at the Civil Engineering Dept. of University of Thessaly.

2016-2018 Member of the Team of Program and Examinations schedule at the Civil Engineering Dept. of University of Thessaly.

2017-2018 Member of the Team of Program Studies at the Civil Engineering Dept. of University of Thessaly.

2018-2022 Member of the Team of Objections of Students' Program of Practical Training at University of Thessaly.

2018-2022 Member of the Team of Academic Advisor at the Civil Engineering Dept. of University of Thessaly 2018-2022.

2018-2022	Member of the Coordinating Team of Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy".
2018-2022	Substitute Member of the Team of Admissions Selection of Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy".
2019-2022	Substitute Member of the Technical Council University of Thessaly.

Research Programs

A. Principal Investigator

International

National

1. 14/05/2019-31/12/2023 Principal Investigator Researcher in the research project entitled «Research project for the selection of the optimal method for the development of an artificial neural network for flood phenomena simulation in the urban area of Amyntaio using rainfall field measurements», with code 6092 και total amount of 12.400 euros.

B. Research Team Member

International

1. 2015-2016 «DRINKADRIA: Networking for Drinking Water Supply in Adriatic Region», IPA ADRIATIC project: Associate Principal Investigator and Staff Member with code 4929.
2. 27/06/2017-31/08/2018 Associate Principal Investigator and Staff Member in research program «International Conference EWaS3 (27-30/06/2018 Lefkada)» with code 5404.
3. 2017-2019 «WATenERgy CYCLE: Urban water full cycle: from its source to its end-users and back to the environment», INTERREG Balkan-Mediterranean 2014-20 project: Associate Principal Investigator and Staff Member with code 5412.
4. 2017-2019 «WATER RESCUE: Water resources efficiency and conservative use in drinking water supply systems», INTERREG V-A Greece-Bulgaria 2014-20 project: Associate Principal Investigator and Staff Member with code 5581.
5. 2018-2020 «SaveSafeWater-Networking for Reciprocal Safe Cross Border Water Supply towards a Worth Living Environment» INTERREG V-A Greece-Albania 2014-20 project: Associate Principal Investigator and Staff Member with code 5754.
6. 07/05/2019-31/08/2020 Associate Principal Investigator and Staff Member in research program «EWaS4-“Valuing the Water, Carbon, Ecological Footprints of Human Activities” (24-27/06/2020)» with code 6093.

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7. 2019-2020 Associate Principal Investigator and Staff Member in research program: «Provision of supporting services for the development of a joint methodology and tools for the reduction of Non-Revenue Water and the optimization of the quality of drinking water and the application of the pilot action of DEYA of Zakynthos in project: SUstaiNable WATER supply networks in Mediterranean touristic areas (Sun Water)», INTERREG V-A Greece-Italy 2014-20, with code 6142.
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8. 2019-2020 Associate Principal Investigator and Staff Member in research program «Provision of supporting services for the development of a joint methodology and tools for the reduction of Non-Revenue Water and the optimization of the quality of drinking water and the application of the pilot action of DEYA of Igoumenitsa», INTERREG V-A Greece-Italy 2014-20, με κωδικό 6214.
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9. 2019-2021 Associate Principal Investigator and Staff Member in research program «MUHA-MUTLIHAZARD FRAMEWORK for WATER RELATED RISKS MANAGEMENT», INTERREG V-B Adriatic-Ionian/ADRION 2014-2020 project, with code 6354.
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National

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1. 04/10/1994-12/11/1994 Worked as an External Expert (contracted) in a research project implemented by the Civil Engineering Dept. of the Aristotle University of Thessaloniki (financed by the Water Utility of Thessaloniki - OUTH) in the field of hydraulic and environmental engineering entitled «Public poll by OUTH on the Public's reaction regarding drinking water supply and water issues in general».
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2. 01/01/1999-31/03/1999 Worked under an employment contract in a research project entitled «Upgrading the civil engineering Studies by introducing of modern methods and tools of education» implemented by the Civil Engineering Dept. of the Aristotle University of Thessaloniki.
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3. 21/04/2013-30/06/2013 Main Researcher in the research project entitled «1) Upgrading the experimental procedure of the flow in an channel with periodical grooves in the bed a) with flow under pressure, b) with free surface flow, 2) Investigation of the possibility to study the flow with the PIV system of the Laboratory of Hydromechanics and Environmental Engineering» implemented by the Civil Engineering Dept. of the University of Thessaly.
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4. 10/04/2013-31/08/2015 Main Researcher in the research project "Archimedes III – research groups in Alexander TEI of Thessaloniki» MIS 383572 code «education and lifelong learning» [Sub-project 33 entitled «Optimum design of the communication of lateral harbor with main flow. Application to small ports and Fishponds»].
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5. 2015-2017 «Performance evaluation of the water distribution networks of the municipal districts of Eani and Krokos of DEYA Kozani and investigation of the sustainability point between efficient and reciprocal use of the water distribution network of DEYA Kozani implementing new technologies», with code 5062.
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6.	2017-2018	«Technical Support Services Consultant of the Water Directorate of E.M.Th. for the management and monitoring of water quality of River Basin Management Plans»: Associate Principal Investigator and Staff Member with code 5580.
7.	2017-2020	Development of an Early Warning System for the safety of drinking water in water distribution networks», with code 5394.
8.	01/05/2018- today	Main Researcher in the project «Experimental and numerical investigation of particulate gravity currents in a trapezoidal channel» with code 5603.
9.	2018- today	«Interdepartmental postgraduate programme - Sustainable Management of Environmental Changes and Circular Economy», with code 5829.
10.	2021-2022	Associate Principal Investigator and Staff Member in research program «Research actions in the management of urban hydraulic projects and water resources», with code 6749.
11.	2021- today	Associate Principal Investigator and Staff Member in research program «Digital capture of the water supply network of the Municipality of Amorgos», with code 6808.

Publications

Publications in Scientific Journals (peer reviewed)

A. International

1.	2003	Prinos P., Sofialidis D., Keramaris E. , (2003) «Turbulent Flow Over and Within a Porous Bed», <i>Hydraulic Engineering</i> , ASCE, 129(9): 720-733, ASCE. DOI: http://dx.doi.org/10.1061/(ASCE)0733-9429(2003)129:9(720)
2.	2009	Keramaris E. , Prinos P., (2009) «Flow Characteristics in Open Channels with Permeable Bed», <i>Porous Media</i> , Begell House, 12(2): 155-165. DOI: 10.1615/JPorMedia.v12.i2
3.	2010	Keramaris E. , (2010) «Comparison between different porous bed (porous filter and rods bundle) in open channels», <i>Porous Media</i> , Begell House, 13(2): 183-193. DOI: 10.1615/JPorMedia.v13.i2.80
4.	2012	Pechlivanidis G., Keramaris E. , Pechlivanidis I., Samaras G., (2012) «Measurements of Turbulent Characteristics in an Open Channel Using PIV (Particle Image Velocimetry)», <i>GlobalNEST</i> , 14(3): 378-385. DOI: https://doi.org/10.30955/gnj.000884
5.	2012	Keramaris E. , (2012) «The Impact of Vegetation on the Characteristics of the Flow in an Inclined Open Channel using the PIV Method», <i>Water Resources and Ocean Science</i> , Science Publishing Group, 1(1): 1-8. DOI: 10.11648/j.wors.20120101.11

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6. 2013 **Keramaris E.**, Pechlivanidis G., (2013) «PIV Measurements Over a Permeable and an Impermeable Bed», *Porous Media*, Begell House, 16(1): 21-28. [DOI: 10.1615/JPorMedia.v16.i1.30](https://doi.org/10.1615/JPorMedia.v16.i1.30)
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7. 2013 Savvidis Y., Zafiriou S., **Keramaris E.**, (2013) «Energy Production from Sea Waves and Currents», *Environmental Protection and Ecology*, BENA, 14(3): 922-932.
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8. 2015 Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., (2015) «Experimental Study of the Effects of Permeable Bed (Grass Vegetation and Gravel Bed) on the Turbulent Flow Using Particle Image Velocimetry», *Turbulence*, Taylor and Francis, 16(1):1-16. [DOI:10.1080/14685248.2014.946605](https://doi.org/10.1080/14685248.2014.946605)
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9. 2015 Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., Samaras G., (2015) «Shear Stress Estimation at the Linear Zone Over Impermeable and Permeable Bed in Open Channels», *Desalination and Water Treatment*, Taylor and Francis, 54(8):2181-2189. [DOI:10.1080/19443994.2014.933622](https://doi.org/10.1080/19443994.2014.933622)
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10. 2015 **Keramaris E.**, (2015) «Effects of Inclined Impermeable Bed on the Turbulent Characteristics of the Flow using Particle Image Velocimetry», *Turbulence*, Taylor and Francis, 16(6): 540-554. [DOI:10.1080/14685248.2015.1016163](https://doi.org/10.1080/14685248.2015.1016163)
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11. 2015 **Keramaris E.**, Pechlivanidis G., (2015) «The influence of transition from vegetation to gravel bed and vice versa in open channels using the PIV Method», *Water Utility*, EWRA Publishing, (10): 37-43.
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12. 2015 **Keramaris E.**, Pechlivanidis G., Pechlivanidis I., (2015) «The different impact of a half-separated grave and vegetated bed in open channels», *Environmental Processes*, Springer, 2(1): 123-132. [DOI:10.1007/s40710-015-0103-5](https://doi.org/10.1007/s40710-015-0103-5)
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13. 2016 **Keramaris E.**, Prinos P., (2016) «Gravity Currents in a Vegetated Valley of Trapezoidal Shape», *Applied Fluid Mechanics*, IUT Publisher, 9(3): 1051-1056. [DOI:10.18869/ACADPUB.JAFM.68.228.24147](https://doi.org/10.18869/ACADPUB.JAFM.68.228.24147)
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14. 2016 **Keramaris E.**, (2016) «Velocity Distribution in open channels with sand:An experimental study», *Civil, Environmental, Structural, Construction and Architectural Engineering*, Waset.org publication, 10(4): 422-426.
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15. 2016 **Keramaris E.**, Pechlivanidis G., (2016) «Inclined Open Channels : The Influence of Bed in Turbulent Characteristics of the Flow», Notes on Numerical Fluid Mechanics and Multidisciplinary Design, *Advances in Fluid-Structure Interaction*, Springer 133: 75-88. [DOI:10.1007/978-3-319-27386-0_5](https://doi.org/10.1007/978-3-319-27386-0_5)
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16. 2016 **Keramaris E.**, Pechlivanidis G., (2016) «The behaviour of a turbulent buoyant jet into flowing environment», *Procedia Engineering Journal*, Elsevier, 162: 120-127. [DOI:10.1016/j.proeng.2016.11.027](https://doi.org/10.1016/j.proeng.2016.11.027)
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17. 2016 Pechlivanidis G., Savvidis Y., **Keramaris E.**, Koutitas C., (2016) «Investigation of the optimum connection of a fish pond with the adjacent main riverine flow», *Procedia Engineering Journal*, Elsevier, 162: 349-356 [DOI:10.1016/j.proeng.2016.11.074](https://doi.org/10.1016/j.proeng.2016.11.074)
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18. 2016 **Keramaris E.**, Pechlivanidis G., Kasiteropoulou D., Michalolias N., Liakopoulos A., (2016) «Experimental and numerical study of turbulent flow in open channels with impermeable and porous bed», *Procedia Engineering Journal*, Elsevier, 162: 381-387. DOI:10.1016/j.proeng.2016.11.078
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19. 2016 **Keramaris E.**, (2016) «Similarities and differences between hot-film anemometry and particle image velocimetry measurements in open channels», *Procedia Engineering Journal*, Elsevier, 162: 388-395. DOI:10.1016/j.proeng.2016.11.079
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20. 2016 **Keramaris E.**, Prinos P., (2016) «Effect of cross sectional shape on gravity currents in vegetated valleys», *International Journal of Advances in Mechanical and Civil Engineering*, Institute of Research and Journals, 3(6): 35-39, DOI:IJAMCE-IRAJ-DOI-6385
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21. 2017 **Keramaris E.**, Pechlivanidis G., (2017) «Effects of different porous beds on turbulent characteristics in an open channel above the porous bed», *Flow Measurement and Instrumentation*, Elsevier, 54: 20-26. DOI:10.1016/j.flowmeasinst.2016.11.007
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22. 2017 **Keramaris E.**, (2017) «Turbulence structure in uniform inclined open channel flow over different rough porous beds», *Sediment Research*, Elsevier, 32: 45-52. DOI:http://dx.doi.org/10.1016/j.ijsrc.2016.04.006
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23. 2017 **Keramaris E.**, Pechlivanidis G., (2017) «The influence of the kind of the permeable bed and channel width in inclined open channels», *ISH Journal of Hydraulic Engineering*, Taylor and Francis, 23(2): 118-125. DOI:10.1080/09715010.2016.1242384
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24. 2017 Savvidis Y., **Keramaris E.**, Pechlivanidis G., Koutitas C., (2017) «Optimum design of the entrance of a fishpond laterally to the main stream of an open channel», *Environmental Science and Pollution Research*, 24(25), 20122-20133, Springer. DOI: 10.1007/s11356-017-8696-z
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25. 2017 Kasiteropoulou D., Liakopoulos A., Michalolias N., **Keramaris E.**, (2017) «Numerical modelling and analysis of turbulent flow in an open channel with submerged vegetation», *Environmental Processes*, Springer, 217(4): 47-61. DOI: 10.1007/s40710-017-0235-x
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26. 2017 **Keramaris E.**, Kasiteropoulou D., Liakopoulos A., Michalolias N., Pechlivanidis G., (2017) «A study of flow in open channels with vegetation: Experiments and numerical models», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 109-129, DOI: 10.1615/SpecialTopicsRevPorousMedia.2017019692
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27. 2017 Savvidis Y., **Keramaris E.**, (2017) «Numerical study of particle transport in a river with a lateral harbor basin», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 127-135, DOI: 10.1615/SpecialTopicsRevPorousMedia.2017020002
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28. 2017 **Keramaris E.**, (2017) «The impact of the instrument in velocity measurements in an open channel with porous bed», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 137-144, DOI: [10.1615/SpecialTopicsRevPorousMedia.2017019004](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2017019004).
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29. 2017 **Keramaris E.**, (2017) «The influence of different type of permeable bed (flexible vegetation and inflexible rods bundle) in gravity currents», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 159-166, DOI: [10.1615/SpecialTopicsRevPorousMedia.2017020421](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2017020421)
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30. 2018 Pechlivanidis G., **Keramaris E.**, Savvidis Y., (2018) «Turbulent Simulation of the flow around different positions of mussel shocks», *Proceedings*, MDPI, 2(11), 574, DOI: <https://doi.org/10.3390/proceedings2110574>
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31. 2018 Michalolias M., **Keramaris E.**, Kasiterpoulou D., Liakopoulos A., Pechlivanidis G., (2018) «Experiments and numerical analysis of flow in an open channel with gravel bed», *Proceedings*, MDPI, 2(11), 581, DOI: <https://doi.org/10.3390/proceedings2110581>
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32. 2018 Savvidis Y., **Keramaris E.**, Pechlivanidis G., Koutitas C., (2018) «Modelling of environmental parameters of a harbour basin in a coastal zone with a seawall», *Proceedings*, MDPI, 2(11), 581, DOI: <https://doi.org/10.3390/proceedings2110575>
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33. 2020 **Keramaris E.**, Pechlivanidis G., (2020) «Boundary effects of vertical buoyant jets in a stagnant fluid in a crossflow», *Experimental Techniques*, 44, 149-158, DOI: <https://doi.org/10.1007/s40799-019-00320-4>.
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34. 2020 Petikas I., **Keramaris E.**, Kanakoudis V., (2020) «Calculation of Multiple Critical Depths in Open Channels Using an Adaptive Cubic Polynomials Algorithm», *Water*, 12(3), 799, DOI: <https://doi.org/10.3390/w12030799>.
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35. 2020 Vardakostas S., Kementsetsidis S., **Keramaris E.**, (2020) «Saline gravity currents with large density difference with fresh water in a valley of trapezoidal shape», *Environmental Sciences Proceedings*, MDPI, 2(1), 64, DOI: <https://doi.org/10.3390/environsciproc2020002064>
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36. 2020 Petikas I., **Keramaris E.**, Kanakoudis V., (2020) «A Novel Method for the Automatic Extraction of Quality Non-Planar River Cross-sections from Digital Elevation Models», *Water*, 12(12), 3553, DOI: <https://doi.org/10.3390/w12123553>
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37. 2021 **Keramaris E.**, (2021) «Velocity profiles in a random porous bed», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 12(3), 1-9. DOI: [10.1615/SpecialTopicsRevPorousMedia.2020030683](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2020030683)
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38. 2021 **Keramaris E.**, Loukas Y., Droulias G., (2021) «Study of hydraulic jump characteristics in a laboratory open channel», *Special Topics & Reviews in Porous Media: An International Journal*, Begell House 12(4), 51-58. DOI: [10.1615/SpecialTopicsRevPorousMedia.2021034245](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2021034245)
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39. 2021 Savvidis Y., **Keramaris E.**, (2021) «Study of waters' renewal and sedimentation of a Harbor in a Coastal Front with Seawalls», *Sediment Research*, Elsevier, 36(3): 373-383, DOI: <https://doi.org/10.1016/j.ijsrc.2020.11.001>.
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40. 2021 **Keramaris E.**, Thanos N., Tsintsifas L., (2021) «The Effect of Flexible Vegetation in Gravity Currents with Large Salinity in Composite Cross Section», *Experimental Techniques*, 1-8, DOI: <https://doi.org/10.1007/s40799-021-00500-1>
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41. 2022 **Keramaris E.**, Vasileiou C., Sagiannis K., (2022) «Gravity currents with Large Salinity in a Gravel Bed Valley: An Experimental Study», *Water Supply*, 22(5), 4921-4933, DOI: <https://doi.org/10.2166/ws.2022.150>
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B. National

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1. 2006 **Keramaris E.**, Prinos P., (2006) «Measurement of Discharge with Permeable Broad-Crested Weirs», *Hydrotechnika*, 16: 73-82.
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2. 2009 **Keramaris E.**, Prinos P., (2009) «Hot-Film Measurements of Turbulent Flow in an Open Channel with a Permeable Bed», *Hydrotechnika*, 18-19: 3-20.
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3. 2017 Savvidis I., **Keramaris E.**, Pechlivanidis G., Koutitas C., (2017) «Computation of Optimum WaterCourse Flow Velocity for Sustainable Operation of a Fish Reservoir Laterally to the Flow», *Hydrotechnika*, 26: 41-52.
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Editing of Scientific Publications in International Scientific Journals

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1. 2016 Kanakoudis V., Karatzas G., **Keramaris E.**, (2016) «Preface/Guest Editorial: The 2nd EWaS International Conference on Efficient and Sustainable Water Systems Toward Worth Living Development», *Procedia Engineering Journal*, Elsevier, 162: 1-2. DOI:10.1016/j.proeng.2016.11.001.
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2. 2017 **Keramaris E.**, (2017) «Preface/Guest Editorial: The 2nd EWaS International Conference on Efficient and Sustainable Water Systems Toward Worth Living Development», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): v-vi, DOI: 10.1615/SpecialTopicsRevPorousMedia.2017020499.
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3. 2020 **Keramaris E.**, (2020) «Preface/Guest Editorial: Journal of Marine Science and Engineering, Special Issue "Experiments and Numerical Analysis of Flow"».
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4. 2020 Kanakoudis V., **Keramaris E.**, (2020) « The 4th EWaS International Conference: Valuing the Water, Carbon, Ecological Footprints of Human Activities», *Environmental Sciences Proceedings*, 2 (1), 62. DOI: 10.3390/environsciproc2020002062
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Publications in Scientific Conference Proceedings (peer reviewed)

A. International

1. 1998 Prinos P., **Keramaris E.**, (1998) «Characteristics of Turbulent Flow over a Porous Bed», Proc. of 3rd International Conference on Hydrosience and Engineering (ICHE), (full paper available in CD-ROM), Cottbus/Berlin, Germany, September 1998.

2. 2003 **Keramaris E.**, Prinos P., (2003) «Measurements and Instrumentation in Hydraulic Research», Proc. of 30th International Association of Hydraulic Research Congress (IAHR), Theme E: 211-215, Thessaloniki, Greece, August 2003.

3. 2007 **Keramaris E.**, Prinos P., (2007) «Turbulent flow in an open channel with vegetation», Proc. of 32th International Association of Hydraulic Research Congress (IAHR), (Abstract pag.164), (full paper available in CD-ROM), Venice, Italia, July 2007.

4. 2008 **Keramaris E.**, Prinos P., (2008) «Gravity currents over a vegetated bed», Proc. of International Conference on Fluvial Hydraulics, RiverFlow 2008, 1: 305-310, Cesme-Izmir, Turkey, September 2008.

5. 2008 **Keramaris E.**, (2008) «Study of distribution time of rainfalls in Greece», Proc. of 8th International Hydrogeological Congress, 2: 525-534, Athens, Greece, October 2008.

6. 2009 **Keramaris E.**, Prinos P., (2009) «Lock-Exchange Experiments: Effect of Vegetation Drag on Gravity Currents», Proc. of 33th International Association of Hydraulic Research Congress (IAHR), 1491-1496, Vancouver, Canada, August 2009.

7. 2010 **Keramaris E.**, Prinos P., (2010) «Gravity Currents in a Valley of Trapezoidal Shape», Proc. of International Conference on Fluvial Hydraulics, RiverFlow 2010, 599-604, Braunschweig, Germany, September 2010.

8. 2012 Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., Samaras G., (2012) «Measuring the Vorticity Above Vegetated Bed Using PIV Technique», Proc. of International Conference Protection and Restoration of the Environment XI, (Abstract pag.125), (full paper available in CD-ROM), Thessaloniki, July 2012.

9. 2013 Pechlivanidis G., **Keramaris E.**, Samaras G., (2013) «Estimating of the Shear Stress in Turbulent Boundary Layers in an Open Channel», (full paper available in CD-ROM, paper EMC_p152), 1stEWaS-MED international Conference, Thessaloniki, Greece, April 2013.

10. 2013 **Keramaris E.**, Pechlivanidis G., (2013) «Comparison Between Permeable and Impermeable Bed in Inclined Open Channels», (full paper available in CD-ROM), ERCOFTAC Symposium on Unsteady Separation in Fluid-Structure Interaction, Mykonos, Greece, June 2013.

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11. 2013 **Keramaris E.**, Pechlivanidis G., Pechlivanidis I., Samaras G.,(2013) «The Impact of Lateral Walls on the Velocity Profile in an Open Channel using the PIV Method»,(full paper available in CD-ROM), 13th International Conference on Environmental Science and Technology (CEST 2013), Athens, Greece, September 2013.
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12. 2014 **Keramaris E.**, Pechlivanidis G., Pechlivanidis I., (2014) «Effects of a half-separated (impermeable and permeable) bed on the velocity distribution in open channels», (Abstract pag.211), (full paper available in CD-ROM), Protection and Restoration of the Environment XII International Conference, Skiahtos, Greece, June–July 2014.
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13. 2014 Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., (2014) «Transition from permeable to impermeable beds and vice versa in open channels: Effects on the velocity distribution of turbulent flow», Proc. of the International Conference on Fluvial Hydraulics, RiverFlow 2014, 81-87, Lausanne, Switzerland, September 2014.
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14. 2015 **Keramaris E.**, Pechlivanidis G., (2015) «The different impact of rods bundle in an inclined open channel in comparison with other permeable beds», Proc. of 13th International Conference on Fluid Mechanics and Aerodynamics (FMA 2015), 119-125, Salerno, Italy, June 2015.
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15. 2015 Pechlivanidis G., **Keramaris E.**, Yannopoulos P., Pechlivanidis I., (2015) «Experimental study of the flow field of a turbulent buoyant jet in a confined denser fluid», Proc. of 14th International Conference on Environmental Science and Technology, CEST 2015, 1-5, Rhodes, Greece,September 2015.
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16. 2019 **Keramaris E.**, (2019) «Gravity currents with salt water in valleys», Proc. of International Conference on Architectural and Environmental Engineering, (ICAEE 2019), (Abstract page 6), 2-3 January 2019, New York, USA.
-
17. 2020 **Keramaris E.**, Kanakoudis V. (2020) «Techniques of measurements and instruments in hydraulic research: A review of published studies», Proc. of ICFMHTME 2020: 22nd International Conference on Fluid Mechanics and Heat Transfer in Mechanical Engineering, 1793-1798, 27-28 February, Buenos Aires, Argentina.
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18. 2020 **Keramaris E.**, Kanakoudis V. (2020) «Experimental study of discharge with sharp-crested weirs», Proc. of ICFMHTME 2020: 22nd International Conference on Fluid Mechanics and Heat Transfer in Mechanical Engineering, 1799-1802, 27-28 February, Buenos Aires, Argentina.
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19. 2020 Kanakoudis V., Tsitsifli S., Papadopoulou A., **Keramaris E.**, (2020) «WATenERgy CYCLE: Assessing water use efficiency in the Balkan-Mediterranean area», Proc. of ICFMH 2020: 22nd International Conference on Fluid Mechanics and Hydraulics,1896-1900, 2-3 March, Rio de Janeiro, Brazil.
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20. 2020 Kanakoudis V., Tsitsifli S., **Keramaris E.**, (2020) «Socially fair domestic water pricing: benchmarking of two Greek cities», Proc. of ICFMH 2020: 22nd International Conference on Fluid Mechanics and Hydraulics, 1901-1905, 2-3 March, Rio de Janeiro, Brazil.
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21. 2022 Leousidis A., Pechlivanidis G., **Keramaris E.**, Savvidis Y., (2022) «Experimental Study of the effects of Heating or Cooling on the Water Surface in Open Channel», accepted for presentation for 5th EWaS International Conference, 12-15 July, 2022 – Naples, Italy.
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B. National

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1. 1997 Prinos P., **Keramaris E.**, (1997) «Turbulent flow in an open channel with a porous bed», Proc. of 7th National Conference of Hellenic Hydrotechnical Association, 318-325, Patra, October 1997.
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2. 2006 **Keramaris E.**, Prinos P., (2006) «Stream Restoration : Practical Approach and Best Design», Proc. of 10th National Conference of Hellenic Hydrotechnical Association, 531-538, Xanthi, December 2006.
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3. 2006 **Keramaris E.**, Prinos P., (2006) «Two-Dimensional Gravity Currents with High Density Difference», Proc. of 10th National Conference of Hellenic Hydrotechnical Association, 695-702, Xanthi, December 2006.
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4. 2007 Thanasis G., **Keramaris E.**, Zagas T. (2007) «Forest Species for urban and periurban greening establishment according to climatic data», Proc. of 13th National Forestry Conference, 246-255, Kastoria, October 2007.
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5. 2007 **Keramaris E.**, Prinos P., (2007) «Numerical Simulation of Floodway Determination», Proc. of 13th National Forestry Conference, 533-542, Kastoria, October 2007.
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6. 2009 **Keramaris E.**, Prinos P., Galanidou A., Katogianni M., (2009) «Gravity Currents in a Bed with Vegetation of Rods Bundle», Proc. of 11th National Conference of Hellenic Hydrotechnical Association, 603-610, Volos, May 2009.
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7. 2010 **Keramaris E.**, Prinos P.,(2010) «Gravity Currents : Effect of Flexible and Inflexible Vegetation», Proc. of 7th National Conference «FLOW 2010, Phenomenon of Fluid flows», 233-241, Thessaloniki, November 2010.
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8. 2011 **Keramaris E.**, Petikas I., (2011) «Movement of Gravity Currents in Mountainous Areas with Presence of Plants Species», Proc. of 15th National Forestry, (Abstract pag.81), (full paper available in CD-ROM), Karditsa, October 2011.
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9. 2012 Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., (2012) «Influence of Turbulent Characteristics of the Flow in Permeable and Impermeable Bed», Proc. of 12th National Conference of Hellenic Hydrotechnical Association, (Abstract pag.125), (full paper available in CD-ROM), Patra, October 2012.
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10. 2012 **Keramaris E.**, Pechlivanidis G., (2012) «Modern Techniques of Measuring Flow Fluid (Particle Image Velocimetry Method)», Proc. of 8th National Conference «FLOW 2012, Phenomenon of Fluid flows», (Abstract pag.33-34), (full paper available in CD-ROM), Volos, November 2012.
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11. 2014 **Keramaris E.**, Pechlivanidis G., Liakopoulos A., (2014) «Research Activities of the Department of Civil Engineering T.E. of Alexander Educational Institute of Thessaloniki and of the Department of Civil Engineering of University of Thessaly», Proc. of the 9th National Conference «FLOW 2014, Phenomenon of Fluid flows, 596-606, Athens, December 2014.
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12. 2015 G.I. Pechlivanidis, **E. Keramaris**, Y. Savvidis, C. Koutitas, (2015) «Hydraulic Study of a Reservoir or Harbor Laterally to a Main Flow», Proc. of 3th joint Conference: 13th of Hellenic Hydrotechnical Association, 9th Hellenic Committee on Water Resources Management and 1st Hellenic Water Association «Integrated Management of Water Resources in new era», 411-418, Athens, December 2015.
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13. 2015 N. Michalolias, D. Kasiteropoulou, **E. Keramaris**, A. Liakopoulos, (2015) «Computational Simulation of the Flow in an Open Channel With Natural Vegetation», Proc. of 3th joint Conference: 13th of Hellenic Hydrotechnical Association, 9th Hellenic Committee on Water Resources Management and 1st Hellenic Water Association «Integrated Management of Water Resources in new era», 385-394, Athens, December 2015.
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14. 2015 I. Karanis, I. Thanopoulos, **E. Keramaris**, A. Liakopoulos, (2015) «Design of a Small Hydroelectric Project in Pineios River», Proc. of 3th joint Conference: 13th of Hellenic Hydrotechnical Association, 9th Hellenic Committee on Water Resources Management and 1st Hellenic Water Association «Integrated Management of Water Resources in new era», 427-434, Athens, December 2015.
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15. 2016 **Keramaris E.**, Liakopoulos A., Pechlivanidis G., D. Kasiteropoulou, N. Michalolias (2016) «Study of Turbulent Flow in an Open Channel With Artificial Vegetation», Proc. of the 10th National Conference «FLOW 2016, Phenomenon of Fluid flows, POH2016-125: 1-9, Patra, December 2016.
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16. 2019 Spyridis A., Koutalou V., Geka I., Zacharopoulos I., **Keramaris E.**, Psilovikos A., Petikas I., Karamoutsou L. (2019) «Calculation of IDF Curves for the Area of Amyntaio», Proc. of the 14th Conference of Hellenic Hydrotechnical Association, 827-836, May, Volos, 2019.
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17. 2019 Spyridis A., Koutalou V., Geka I., Zacharopoulos I., Psilovikos A., **Keramaris E.**, Petikas I., Karamoutsou L. (2019) «Calculation of IDF Curves for the Area of Amyntaio», Proc. of the 14th Conference of Hellenic Hydrotechnical Association, 827-836, May, Volos, 2019.
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18. 2022 Leousidis A., Pechlivanidis G., **Keramaris E.**, Savvidis Y., (2022) «Thermal Wedge Study Due to Temperature Field Changes in an Open Channel», was presented in 15th Conference of Hellenic Hydrotechnical Association, Thessaloniki, June 2022.
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Course Books/Scientific Books

ATEI-TH

1. 2007 **Keramaris E.**, (2007). «River Mechanics» (Laboratory Notes), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, January 2007.
 2. 2008 **Keramaris E.**, (2008). «Hydraulics II» (Theory Notes), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, March 2008.
 3. 2008 **Keramaris E.**, (2008). «Hydraulics II» (Laboratory Notes), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, March 2008.
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Acknowledgement of Scientific Expertise

A. Awards - Distinctions – Scholarships- Patents

B. Citations/ h-index

Citations : 384 (Google Scholar)
h-index: 10 (Google Scholar)

C. Reviewer in Scientific Journals

1. Journal of Porous Media, Begell House, from 2007.
 2. International Journal of Heat and Fluid Flow, Elsevier, from 2009.
 3. Global Nest Journal, GlobalNest, from 2012.
 4. Fresenius Environmental Bulletin, Parlar Scientific Publications, from 2015.
 5. Environmental Processes, Springer, from 2015.
 6. Desalination and Water Treatment, Taylor and Francis, from 2015.
 7. Environmental Earth Sciences, Springer, from 2015.
 8. Journal of Hydraulic Engineering, Taylor and Francis, from 2015.
 9. Environmental Engineering Science, Mary Ann Liebert Inc., from 2015.
 10. Flow Measurement and Instrumentation, Elsevier, from 2017.
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11. Water Science and Technology: Water Supply, IWA Publishing, from 2017.
 12. Water, IWA Publishing, from 2017.
 13. Sensors, IWA Publishing, from 2018.
 14. Fluids, IWA Publishing, from 2018.
 15. Hydrology IWA Publishing, from 2019.
 16. Physics of Fluids from 2021.
-

D. Member of Conference Scientific and Organizing Committees

- **Member** of the organizing committee of the Conference «Protection and Restoration of the Environment XII International Conference», June 29–July 4 2014, Skiahtos, Greece. (Co-organization: Department of Civil engineering University of Thessaly, Department of Planning and Regional Development University of Thessaly, Stevens Institute of Technology, USA).
 - **Vice Chairman** of the Conference «2nd EWaS International Conference: “Efficient & Sustainable Water Systems Management toward Worth Living Development”», June 1–4 2016, Chania, Greece. (Co-organization: Department of Civil engineering University of Thessaly & School of Environmental Engineering, Technical University of Crete).
 - **Vice Chairman** of the Conference «3rd EWaS International Conference: “Insights on Water-Energy-Food Nexus”», June 27–30 2018, Lefkada Island, Greece. (Organization: Department of Civil engineering University of Thessaly).
 - **Vice Chairman** of the Conference «4th EWaS International Conference: “Valuing the Water, Carbon, Ecological Footprints of Human Activities”», 24-27 June 2020, Volos, Greece. (Organization: Department of Civil engineering University of Thessaly).
 - **Vice Chairman** of the Conference «5th EWaS International Conference: «Water Security and Safety Management: emerging threats or new challenges? Moving from Therapy and Restoration to Prognosis and Prevention», 12-15 July 2022, Naples, Italy (Co-organization: Department of Civil Engineering University of Thessaly & University of Naples Federico II, Civil, Architectural and Environmental Engineering Dept.).
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E. Member of other Scientific Committees or Professional Associations

1995 - Member of Technical Chamber of Greece
today

2007 - Member of Hellenic Hydrotechnical Association
today

Thessaloniki, September 2023
