

PERSONAL INFORMATION	
SURNAME	TSOUKALA
NAME	VASILIKI (Vicky)
DATE OF BIRTH	13/11/1969
PLACE OF RESIDENCE	ATHENS
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RESEARCHER IDS	<a href="#">Scopus</a> (660260713), <a href="#">ORCID</a> (0000-0001-8526-6286), <a href="#">Google Scholar</a> , <a href="#">Research Data</a> , Academia.edu, <a href="#">LinkedIn</a>

## CURRENT POSITIONS

<b>2020 - Present</b>	<b>Professor</b> Laboratory of Harbour Works, Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece
<b>2016 - Present</b>	<b>Director of the Laboratory of Harbour Works</b> Laboratory of Harbour Works, Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece
<b>2018 - 2020</b>	<b>Director of the Department of Water Resources and Environment</b> Laboratory of Harbour Works, Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece
<b>09.2018 - Present</b>	<b>Member of Dean's Office</b> School of Civil Engineering, NTUA, Greece
<b>01.2018 - Present</b>	<b>Regular Member of the Council of Public Works</b> Department of Design, General Secretariat of Transport, Hellenic Ministry of Infrastructure and Transport, Greece
<b>05.2020 - Present</b>	<b>Regular Member of the Council of Short-Sea Shipping</b> , Department of Design and Development, Directorate of Maritime Transport, Hellenic Ministry of Maritime Affairs and Insular Policy, Greece

## PREVIOUS POSITIONS

<b>2016 - 2020</b>	<b>Associate Professor</b> Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece
<b>2011 - 2016</b>	<b>Assistant Professor</b> Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece
<b>10.2007 - Present</b>	<b>Adjunct Academic Staff</b> Department of Postgraduate Studies, Hellenic Open University (HOU), Greece
<b>09.2005 - 12.2011</b>	<b>Lecturer</b> Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece
<b>09.2001 - 08.2005</b>	<b>Adjunct Associate Professor</b> Technical University of Crete, School of Environmental Engineering, Greece
<b>09.2001 - MM.2005</b>	<b>Postdoctoral Researcher</b> Laboratory of Harbour Works, Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece
<b>MM.1992 - MM.2000</b>	<b>Research Associate</b> Laboratory of Harbour Works, Department of Water Resources and Environment, School of Civil Engineering, NTUA, Greece

## EDUCATION

- 05.1993 - 02.2001** PhD Diploma, School of Civil Engineering, NTUA, Thesis: Wave induced sea water oxygenation at the coastal zone
- 09.1987 - 09.1992** Diploma in Civil Engineering, Department of Water Resources and Environment, National Technical University of Athens, Greece, Grade: 7.26/10

## PUBLICATIONS [*Indicative publications of the last ten (10) years*]

### International journals

- Chalastani, V.I., Coccossis, H., **Tsoukala, V. K.**, Duarte C.M., "A bibliometric survey", Marine Spatial Planning (submitted April 2020).
- Papadimitriou A., Panagopoulos, L., Chondros, M., **Tsoukala, V.K.**, "A wave input reduction method incorporating initiation of sediment motion", Journal of Marine Science and Engineering (submitted April 2020).
- Martzikos, N.T., Prinos, P.E., Memos, C., **Tsoukala V.K.**, "Statistical analysis of Mediterranean coastal storms", OCEANOLOGIA (submitted March 2020).
- Martzikos, N.T., Prinos, P.E., Memos, C., **Tsoukala, V.K.**, "Key research issues of coastal storm analysis", Ocean and Coastal Management (under review, February 2020).
- Papadimitriou A., Chondros M., Metallinos A., Memos C., **Tsoukala, V.K.**, 2020. "Simulating wave transmission in the lee of a breakwater in spectral models due to overtopping", Applied Mathematical Modeling Journal (under revision).
- Malliouri, D.I., Memos, C.D., Tampalis, N.D., Soukissian, T.H., **Tsoukala, V.K.**, 2020. "Assessing failure probability of coastal structures based on probabilistic representation of sea conditions at the structures", Applied Mathematical Modeling Journal (under revision)
- Makris, Ch, Androulidakis, Karambas, Th., Papadimitriou, A., Metallinos, A., Kontos, Y, Baltikas, V., Chondros, M., Krestenitis, Y., **Tsoukala, V.K.**, Memos, C., 2020. "Integrated modelling of sea-state forecasts for safe navigation and operational management in ports", Applied Mathematical Modeling Journal, (under revision)
- Chalastani V.I., Manetos, P., Al-Suwailem, A.M., Hale, J.A., Vijayan, A.P., Pagano, J., Williamson I., Henshaw, S.D., Aldaseet, R., Butt F., Coccossis, H., **Tsoukala, V.K.**, Duarte C.M., 2020. "Reconciling Ecotourism Development and Conservation Outcomes through Marine Spatial Planning for a Saudi Giga-Project in Red Sea (The Red Sea Project, Vision 2030)", Front. Mar. Sci. - Ocean Solutions, Manuscript ID: 490664, (accepted for publication, 3 March 2020), DOI: 10.3389/fmars.2020.00168.
- Malliouri, D.I., Memos, C.D., Tampalis, N.D., Soukissian, T.H., **Tsoukala, V.K.**, 2019. "Integrating short-and long-term statistics for short-crested waves in deep and intermediate waters". Applied Ocean Research, 82, 346-361, DOI: 10.1016/j.apor.2018.11.004.
- Martzikos, N., Afentoulis, V., **Tsoukala, V.**, 2018. "Storm clustering and classification for the port of Rethymno in Greece". Water Utility Journal, 20, pp. 67-79.
- Moschos, E., Manou, G., Dimitriadis, P., Afentoulis, V., Koutsoyiannis, D., **Tsoukala, V.**, 2017. "Harnessing wind and wave resources for a Hybrid Renewable Energy System in remote islands: a combined stochastic and deterministic approach", Energy Procedia 125, pp. 415-424, DOI: 10.1016/j.egypro.2017.08.084.
- Afentoulis, V., Kragiopoulou, E., Skarlatou, E., Moschos, E., Lykou, A., Makropoulos Ch., **Tsoukala, V.K.**, 2017. "Coastal Processes Assessment Under Extreme Storm Events Using Numerical Modelling Approaches", Environ. Process., 4(3), pp. 731-747, DOI: 10.1007/s40710-017-0253-8.
- Tsoukala, V.K.**, Chondros, M., Kapelonis, Z.G., Martzikos, N., Lykou, A., Belibassakis, K.A. and Ch., Makropoulos, 2016. "An integrated wave modelling framework for extreme and rare events for climate change in coastal areas – the case of Rethymno, Crete", OCEANOLOGIA, 58, pp. 71–89, DOI: 10.1016/j.oceano.2016.01.002.
- Papadopoulou, M.P., Charchousi, D., **Tsoukala, V.K.**, 2016. "Is water footprint assessment reliable in river basin scale?", European Water, Issue 56, pp. 21-32.
- Papadopoulou, M.P., Charchousi D., **Tsoukala, V.K.**, Giannakopoulos, C. and Petrakis, M., 2015. "Water footprint assessment considering climate change effects on future agricultural production in Mediterranean region", Journal Desalination and Water Treatment Journal Desalination and Water Treatment, 57(5): pp. 1-11 DOI: 10.1080/19443994.2015.1049408.
- Tsoukala, V.K.**, Katsardi, V. Hatzibiros, K. and C. I. Moutzouris, 2015. "Beach erosion due to the presence of

- harbours in sandy beaches: Environmental and socio-economic issues”, Environ. Process, (Suppl. 1): S55- S71, DOI: 10.1007/s40710-015-0096-0.
- Charchousi, D., **Tsoukala, V.K.** and M.P. Papadopoulou, 2015. “How evapotranspiration process may affect the estimation of water footprint indicator in agriculture”, Journal Desalination and Water Treatment, doi 10.1080/19443994.2014.934118.
- Tsoukala, V.K.**, Katsardi, V. and Belibassakis, K. A., 2014. “Wave transformation through flushing culverts operating at seawater level in coastal structures”, Journal of Ocean Engineering Vol. 89, pp. 211-229, DOI: 10.1016/j.oceaneng.2014.08.009.
- Papadonikolaki, G.S., Altan, Y.C., Stamou, A.I., Otay, E.N., Christodoulou, G.C., Copty, N.K., **Tsoukala, V.K.**, Telli-Karakoc, F. and Papadopoulos, A., 2014, “Risk Assessment of oil Spill Accidents”, Global NEST: The Int. Journal, Vol. 16, No 4, pp. 743-752, DOI: 10.30955/gnj.001274.
- Belibassakis, K.A., **Tsoukala, V.K.** and Katsardi, V.Ch., 2014. “Three dimensional diffraction in the vicinity of openings in coastal structures”, Journal of Applied Ocean Research wave, Vol. 45, pp. 40-54, DOI: 10.1016/j.apor.2013.12.005.
- Stathatou, P-M.G., **Tsoukala V.K.**, Papadopoulou M.P., Stamou A., Spiliotopoulou, N., Theochari C. and Papagrighoriou S., 2012. “An environmental approach for the management and protection of heavily irrigated regions”, Global NEST: The Int. Journal, Vol.14, No 3, pp. 276-283.
- Tsoukala, V.K.**, Gaitanis, C.K., Stamou, A.I., Moutzouris, C.I., 2010. “Wave and dissolved oxygen transmission analysis in harbors using flushing culverts: An experimental approach”, Global NEST: The Int. Journal, Vol.12, No 2, pp. 152-160, DOI: 10.1016/j.apor.2013.12.005.
- Tsoukala, V.K.**, Anastasaki, E.N., Moutzouris, C.I., Iakovou, N., Zervos, S., 2010. “Beach Rehabilitation in Cyprus using Environmentally Friendly Structures”, Journal of Marine Environmental Engineering, Vol. 9, No 2, pp. 123-143.
- Tsoukala, V.K.**, Moutzouris, C.I., 2009. “Wave transmission in harbors through flushing culverts”, Journal of Ocean Engineering, 36 (6-7), pp. 434-445.
- Tsoukala, V.K.**, Moutzouris, C.I., 2008. “Gas Transfer under Breaking Waves: Experiments and an improved vorticity-based model”, Annales Geophysicae, 26, pp. 2131-2142.
- Tsoukala, V.K.**, Moutzouris, C.I., 2005. “Field Measurements of Dissolved Oxygen in the Piraeus Harbour Basin”, Journal of Marine Environmental Engineering, Vol. 7, No 4, pp. 307-316.
- Tsoukala, V.K.**, Moutzouris, C.I., 2005. “Field Measurements on the Positive Effects of Rubble Mound Structures on Water Quality”, Journal of Coastal Research, Vol. 21, No 6, pp.1203-1218.
- Stamou, A.I., Katsiris, I.K., Moutzouris, C.I., **Tsoukala, V.K.**, 2004. “Improvement of marina design technology using hydrodynamic models”, Global NEST: The Int. Journal, Vol. 6, No 1, pp.63-72.
- Daniil, E.I., **Tsoukala V.K.**, Moutzouris, C.I., 2000. “The Beneficial Role of Rubble Mound Coastal Structures on Seawater Oxygenation”, Annales Geophysicae, Vol. 18, Issue 10, pp. 1360-1371.
- Daniil, E.I., **Tsoukala, V.K.**, Moutzouris, C.I., 1998. “Harbour Basin Seawater Oxygenation through Rubble Mound Breakwater Structures”, Journal of Marine Environmental Engineering, Vol. 4, pp. 277-300.

### **International conferences**

- Tsaimou, C.N., Kagkelis, D.-G., Karantzalos, K., & **Tsoukala, V.** (2022). Remote Sensing Synergies for Port Infrastructure Monitoring and Condition Assessment, 12th International Conference on Engineering, Project, and Production Management, 12-14 October, Athens, Greece.
- Tsaimou, C.N., Chelioti, K., & **Tsoukala, V.** (2022). Unmanned Aerial Vehicles: A Survey on Monitoring Advancements for Port Infrastructure Applications, 12th International Conference on Engineering, Project, and Production Management, 12-14 October, Athens, Greece.
- Tsaimou C., Kagkelis G., Papadimitriou A., Chalastani V., Sartampakos P., Chondros M., & **Tsoukala V.** (2022). Advanced Multi-Area Approach for Coastal Vulnerability Assessment, 7th IAHR Europe Congress, 7-9 September, Athens, Greece.
- Chalastani V., Pantelidis, A., Tsaimou C., & **Tsoukala V.** (2022). Development of a Complex Vulnerability Index for Fishing Shelters – The Case of Cyprus, 7th IAHR Europe Congress, 7-9 September, Athens, Greece.
- Tsaimou, C.N., Sartampakos, P., & **Tsoukala, V.K.** (2022). UAV-based Remote Sensing practices for assessing coastal vulnerability, Proceedings of the 39th IAHR World Congress, pp. 5988-5996, 19-24 June, Granada, Spain, DOI: 10.3850/IAHR-39WC2521716X20221300.
- Tsaimou, C.N., Chalastani, V.I., Sartampakos, P., & **Tsoukala, V.K.** (2021). Integrating seaport infrastructure monitoring approaches to improve smartness and climate adaptive capacity, 17th International

- Conference on Environmental Science and Technology (CEST2021), Athens, Greece, 1-4 September.
- Tsaimou, C.N., Chalastani, V.I., & **Tsoukala, V.K.** (2021). Life-cycle-oriented framework for seaport infrastructure maintenance and climate change adaptation, 17th International Conference on Environmental Science and Technology (CEST2021), Athens, Greece, 1-4 September.
- Spiliopoulos, G., Bereta, K., Zissis, D., Memos, C., Makris, Ch., Metallinos, A., Karambas., Th., Chondros, M., Emmanouilidou, M., Papadimitriou, A., Baltikas, V., Kontos, Y., Klonaris, G., Androulidakis, Y., **Tsoukala, V.**, 2020. "A Big Data framework for Modelling and Simulating high-resolution hydrodynamic models in sea harbours ", OCEANS 2020, 11-14 August 2020 Singapore (accepted for presentation).
- Papadimitriou, A., Memos, C., Atzampou, P., Chondros, M., Metallinos, A., **Tsoukala, V.K.**, 2020. "Impact of coastal currents on spectral wave operational models: An application in Accu-Waves", 6th IAHR Europe Congress, 14-17 September 2020, Warsaw, Poland (accepted for presentation).
- Makris, Ch., Karambas, Th., Baltikas, V., Androulidakis, Y., Kontos Y., Memos C, Metallinos, A., Chondros, M., Papadimitriou, A., **Tsoukala V.**, 2020. "Integrated modeling of sea-state forecasts for safe navigation around and inside ports: The Accu Waves Platform", ICCE 2020, 37th International Conference on Coastal Engineering, 13-18 September 2020, Sydney Australia (accepted for presentation).
- Tsokos, A., **Tsoukala, V.K.**, Petropoulos, Ch., Sartampakos, P., Vasilakis, Em., 2019. "Combination of very high resolution satellite imagery and side scan data for low cost seagrass mapping", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May, 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Skourti, O.-M. A., Papadakis, M.I., Martzikos, N.T., Chondros, M. K., **Tsoukala, V.K.**, 2019. "Adapting ports to climate change – the case of Evdilos port, Ikaria island, Greece", 2nd International Conference ADAPTtoCLIMATE, 24-25 June 2019, Crete, Greece (LINK).
- Memos, C., Makris, C., Metallinos, A., Karambas, Th., Zissis, D., Chondros, M., Spiliopoulos, G., Emmanouilidou, M., Papadimitriou, A., Baltikas, V., Kontos, Y., Klonaris, G., Androulidakis, Y., **Tsoukala, V.K.**, 2019. "Accu - Waves: A decision support tool for navigation safety in ports", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May, 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Martzikos, N., Prinou, P., Memos, C., **Tsoukala, V.K.**, 2019. "Mediterranean coastal storms in a changing climate", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Malliouri, D., Memos, C., Soukissian, T., **Tsoukala, V.K.**, 2019. "Reliability analysis of rubble mound breakwaters", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May, 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Makris, C. , Karambas, Th., Baltikas, V., Kontos, Y., Metallinos, A., Chondros, M., Papadimitriou, A., **Tsoukala, V.K.**, Memos, C., 2019. "WAVE - L: An integrated numerical model for wave propagation forecasting in harbor areas", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May, 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Koromilas, A., Kotidou, G., Athanasopoulou, A., **Tsoukala, V.K.**, 2019. "Development of a combined physical and anthropogenic activities vulnerability index for coastal infrastructures: a GIS - based approach for Central Greece", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings)
- Katsardi, V., Santic, I., Chatziionnou, I.K., Koukouselis, A., Mistakidis, E., **Tsoukala, V.K.**, Chatjigeorgiou, I.K., 2019. "Experimental investigation of the oscillating properties response of a three - legged jacket tower", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Katsardi, V., Koukouselis, K., Chatziioannou, K., Mistakidis, E., Santic, I., **Tsoukala, V.K.**, Chatjigeorgiou, I.K., 2019. "Oscillating properties of jacket support structures to extreme wave events", 2nd International Conference on Natural Hazards & Infrastructure, ICONHIC 2019, Chania, Greece.
- Chondros, M., Metallinos, A., Memos, C., **Tsoukala, V.K.**, 2019. "A smart data selection tool (SDST) for estimating design wave height", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Charchousi, D., Papadopoulou, M.P., **Tsoukala, V.K.**, 2019. "Multi - criteria ranking and assessment of alternative coastal defense schemes", 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Chalastani, V.I., **Tsoukala, V.K.**, Melissas D., 2019. "Design, construction and legal framework of an artificial

- surfing reef (ASR) in Marathon bay, Attica”, 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Chalastani, V.I., Manetos, P., **Tsoukala, V.K.**, Coccossis, H., Duarte, C.M., 2019. “Marine spatial planning to address conservation challenges: The case study of Crete”, 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings.)
- Afentoulis, V., Papadimitriou, A., Benoit M., **Tsoukala, V.K.**, 2019. “Numerical approaches for the evaluation of sediment transport mechanisms on a shallow sloping sea bottom”, 1st International Conference Design and Management of Port, Coastal, and Offshore Works, 8-11 May, 2019, Eugenides Foundation, Athens, Greece. (e- Proceedings).
- Papadopoulou, M.P., Kalabaliki, Z., **Tsoukala, V.K.**, 2018. “Stress-weighted water footprint assessment of agricultural policies in a water scarce region”, 6th International Conference of Solid Waste Management, 13-16 June 2018, Naxos Greece. (e- Proceedings).
- 2018 Memos, C.D., Malliouri, D., Kazakidou, E., **Tsoukala, V.K.**, 2018. “Impact of wavelength on the stability of rubble mound breakwaters”, 7th International Conference of Physical Modeling in Coastal and Port Engineering and Science (Coastlab18), Santander, Spain.
- Tsoukala, V.K.**, Papadopoulou, M.P., 2017. “Evaluation and prioritization of erosion protection measures along the coast of Avida”, E-proceedings, 15th International Conference on Environmental Science and Technology, 31 August - 2 September 2017, Rhodes, Greece (e- Proceedings)
- Moschos, E., Manou, G., Georg anta, X., Dimitriadis, P., Iliopoulou, Th., Trails, H., Koutsoyiannis, D., **Tsoukala, V.K.**, 2017. “Investigation of the stochastic nature of wave processes for renewable resources management: a pilot application in a remote island in the Aegean Sea”, EGU European Geoscience Union, General Assembly, 23-28 April 2017, Vienna, Austria, [EGU2017-10225 & Poster].
- Martzikos, N., Lykou, A., Makropoulos, Ch., **Tsoukala, V.K.**, 2017. “Cluster analysis and classification of storm events at Rethymno”, 10th World Congress on Water Resources and Environment “Panta Rhei” At: Athens, Greece Volume: European Water, Special Issue: "10th Word Congress on Water Resources and Environment" (EWRA2017 - Issue I).
- Malliouri, D., Afentoulis, V., Bonaros, V., **Tsoukala, V.K.**, 2017. “Integrated Design of Coastal Structures and Adaptation to Climate Change Hazards”, 15th International Conference on Environmental Science and Technology, Rhodes.
- Afentoulis, V., Mohammadi, B., **Tsoukala, V.K.**, 2017. “The investigation of form and processes in the coastal zone under extreme storm events-the case study of Rethymno, Greece”, EGU European Geoscience Union, General Assembly, 23-28 April 2017, Vienna, Austria, [EGU2017-7077 & Presentation]
- Afentoulis, V., **Tsoukala, V.K.**, Mohammadi, B., 2016. “Experimental and numerical modeling of fluid-seabed interaction in shallow water”, Proceedings of the ICCE 2016 35th International Conference Coastal Engineering, Volume 35, ICCE 2016, 17-20 November 2016; Antalya; Turkey; Code 129950.
- Poustourli, A., Kousoulidou, M., **Tsoukala, V.K.**, 2015. “Security in Urban Critical Infrastructures: Contribution of Standards for a Holistic Approach of Protection and Resilience”, Proceedings of the 14th International Conference on Environmental Science and Technology, 3-5 September 2015, Rhodes, Greece.
- Marini, E., Papadopoulou, M.P., **Tsoukala, V.K.**, 2015. “Water footprint assessment in river basin scale using GIS Technology”, E-proceedings, 9th World Congress of EWRA, Water Resources Management in Changing World: Challenges and Opportunities, 10-13 June 2015, Istanbul, Turkey.
- Makropoulos, Ch., **Tsoukala, V.K.**, Belibassakis, K. Lykoy, A. Chondros, M. Gougoura, P., 2015. “Managing flood risk in coast cities through an integrated modelling framework supporting stakeholders’ involvement: The Case study of Rethymno”, 36th IAHR World Congress, 28 June – 3 July 2015, The Hague, the Netherlands.
- Kragiopolou, E., Papadonikolaki, G.S. and A.I. Stamou, **Tsoukala V.K.**, 2015. “GIS- based Risk Assessment of Oil Spill Accidents at Saronikos Gulf Greece”. Proceedings of the 14th International Conference on Environmental Science and Technology, 3-5 September 2015, Rhodes, Greece, [e-proceedings Paper ID: cest2015\_01369, Session 25.2: Marine environment and coastal management].
- Papadopoulou, M.P., Charchousi, D., **Tsoukala, V.K.**, Giannakopoulos, C. and Petrakis, M., 2014. “Water footprint assessment of applied agricultural policies based on climate change scenarios”, International

- Conference ADAPT to CLIMATE, 27\_28 March, Nicosia, Cyprus, 2014 (e-proceedings: LINK)
- Makropoulos, Ch., **Tsoukala, V.K.**, Lykou, A., Chondros, M., Manojlovic, N., and Vojinovic, Z., 2014. "Improving Resilience against Extreme and Rare Events in Coastal Regions: An initial methodological proposal – the case study of the city of Rethymno", International Conference ADAPT to CLIMATE, 27-28 March 2014, Nicosia, Cyprus (e-proceedings: LINK).
- Koufali, M. Giantsi, Th., **Tsoukala, V.K.**, and Moutzouris, C.I., 2014. "Experimental investigation of the influence of protruding structures on wave action downstream of harbours", Proceedings of Protection and Restoration of the Environment XII, June 29-3 July, Skiathos, Greece, p. 1228-1233.
- Katsardi, V., **Tsoukala, V.K.** and Moutzouris, C.I., 2014. "Beach erosion due to the presence of harbours in sandy beaches: the case of Greece in comparison with international observations", Proceedings of Protection and Restoration of the Environment XII, June 29-3 July, Skiathos, Greece pp. 1221-1227.
- Chondros, M., Katsardi, V., **Tsoukala, V.K.** and Belibassakis, K.A., 2014. "Experimental verification of a new 3D numerical model involving wave transformation through flushing culverts", 3rd IAHR Europe Congress, 14-16 April 2014, Porto, Portugal.
- Stamou, A.I., Otay, E.N., **Tsoukala, V.K.**, Copty, N., Karakoc, F.T., Christodoulou, G., Papadopoulos, A., Papadonikolaki, G., Altan, Y.C., 2013. "Risk assessment of oil spill accidents. Part 1: presentation of the methodology", Proceedings of the 13th International Conference on Environmental Science and Technology, 5-7 September 2013, Athens, Greece. (e-proceedings paper No: 700).
- Otay, E.N., Stamou, A.I., Altan, Y.C., Papadonikolaki, G., Copty, N., Christodoulou, G., Karakoc, F.T., **Tsoukala, V.K.**, Koutsoyiannis, D., Papadopoulos, A., 2013. "Risk assessment of oil spill accidents. Part 2: Application to Saronikos gulf and Izmir bay", Proceedings of the 13th International Conference on Environmental Science and Technology, 5-7 September 2013, Athens, Greece. (e-proceedings paper No: 827).
- Monemvasioti, K., **Tsoukala V.K.**, 2013. "A sustainable management of Zakynthos Marine National Park, using environmental indicators analysis" Proceedings of the 13th International Conference on Environmental Science and Technology, 5-7 September 2013, Athens, Greece. (e-proceedings paper No:520).
- Katsardi, V., **Tsoukala, V.K.**, Belibassakis, K.A., 2013. "Estimation of Wave Transmission Through Flushing Culverts in Breakwaters", ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2013; 9 - 14 June 2013, Nantes, France. Article number V005T06A050.
- Katsardi, V., **Tsoukala, V.K.**, Belibassakis, K.A., 2013. "3D Wave Transformation Through Openings in Coastal Structures", ASME 32nd International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2013; 9 - 14 June 2013, Nantes, France. Article number V005T06A048.
- Charchousi, D., **Tsoukala, V.K.**, M.P. Papadopoulou, 2013. "Benchmarking Methodologies for Water Footprint Calculation in Agriculture", International Conference Win4life, 19-21 September 2013, Tinos, Greece. (e- Proceedings).
- Koufali, M., **Tsoukala, V.K.**, Giantsi, Th., Moutzouris, C.I., 2012. "Experimental study of the influence of breakwater in wave action downstream of harbours". Proceedings Coastlab12 - 4th International Conference on the Application of Physical Modelling to Port and Coastal Protection, 17-20 September, Gent, Belgium.
- Katsardi, V., Boundris, G., **Tsoukala, V.K.**, Belibassakis, K.A., 2012. "Study of wave transformation due to flushing culverts in coastal structures", Proceedings of the Twenty-second International Offshore and Polar Engineering Conference, 17-22 June 2012, Rhodes, Greece, pp. 1356-1363.
- Antonopoulou, M., **Tsoukala, V.K.**, 2012. "Application of Multi-Criteria Decision Analysis for the offshore wind farms". Proceedings of Protection and Restoration of the Environment XI, 3-7 July 2012, Thessaloniki, Greece, pp. 1439-1438.
- Tsoukala, V.K.**, Stathatou, P.G., Papadopoulou, M.P., Stamou, A.I., Spiliotopoulou, N., Theoxari, C., and Papagrigoriou, S., 2011. "Water footprint: an environmental friendly concept to address water crisis", Proceedings of the 12th International Conference on Environmental Science and Technology, 8-10 September 2011, Rhodes, Greece, A-1920-1925.
- Papadopoulou, M.P., **Tsoukala, V.K.**, 2011. "Deciding and evaluating interventions on coastal zones using environmental indicators", Proceedings of the 12th International Conference on Environmental Science and Technology, 8-10 September 2011, Rhodes, Greece, A-1432-1437.
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- Physical Modelling to Port and Coastal Protection, 28th-30th September & October 1st, 2010, Barcelona, Spain, pp. 323-332.
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- Daniil, E.I., **Tsoukala, V.K.** and Moutzouris, C.I., 2002. "Research Activities of the Laboratory of Harbour Works, NTUA on the Positive Effects of Coastal Structures on Water Quality", Proceedings of Protection and Restoration of the Environment VI, 1-5 July 2002, Skiathos, Greece, pp. 379-386.
- Tsoukala V.K.**, Daniil, E.I., Moutzouris, C.I., 2001. "Positive effects of Coastal Structures on Water Quality", Proceedings of XXIX IAHR Congress, Theme B Environmental Hydraulics and Eco-Hydraulics, Tsinghua Univ. Press, 16-21 September 2001, Beijing, China, pp. 163-168.
- Tsoukala, V.K.**, Tofa, E.Chr., Moutzouris, C.I., 2000. "A large-scale laboratory study of water oxygenation due to the presence of a rubble mound breakwater", Proceedings of ICCE 2000 27th International Conference on Coastal Engineering, ASCE, 31 16-21 July 2008, Sydney, Australia.
- Daniil, E.I., **Tsoukala, V.K.**, Moutzouris, C.I., 2000. "Dissolved Oxygen Measurements for Water Quality in a



- Harbour Area near Athens, Greece”, E-Proceedings of Joint Conference on Water Resources Engineering and Water Resources Planning and Management, July 30 - 2 August 2000, Minneapolis, USA.
- Daniil, E.I., **Tsoukala, V.K.**, Moutzouris, C.I., 2000. “Field Measurements of Dissolved Oxygen in a Harbour Basin in Attica”, Proceedings of Protection and Restoration of the Environment VI, 2-6 July 2000, Thasos, Greece, Vol. 1, pp. 465-472.
- Labropoulos, N., Saros, M., Tsalas, T., **Tsoukala, V.K.**, 1999. “An Integrated System for the Supervision and Management of the Stream Network of Greater Athens Areas”, E-Proceedings of XXVIII IAHR Congress, 22-27 August 1999, Graz, Austria.
- Daniil, E.I., **Tsoukala, V.K.**, Moutzouris, C.I., 1998. “The beneficial role of breaking waves on seawater oxygenation in coastal zones”, Proceedings of Protection and Restoration of the Environment IV, 1-4 July 1998 Sani, Chalkidiki, Greece, Vol. 1, pp. 299-306.
- Tsoukala, V.K.**, Moutzouris, C.I., 1997. “Scale Effects in Oxygenation in the Breaker Zone of Coastal Structures”, Proceedings of ICCE 1996, 25th International Conference on Coastal Engineering, ASCE, 2-6 September 1996, Orlando, Florida, United States, Vol. III, pp. 403-414.
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- Tsoukala, V.K.**, Moutzouris, C.I., 1995. “Scale effects in the oxygenation of water under breaking waves”. Proceedings of European Geophysical Society, XXI General Assembly, 3-7 April 1995, Hamburg, Germany, Annales Geophysicae, Supplement II, Vol. 13, pp. C262.

### ***Special issues***

- Journal of Applied Mathematical Modelling 2019, Special Issue of Applied Mathematical Modelling in Port Coastal and Offshore engineering, (view at AMM\_DMPCO2019), Guest Editors: Chatjigeorgiou, Y., Markatos, N., **Tsoukala, V.**
- Journal of Marine Environmental Engineering, 2005. Vol. 8 No 2, pp. 113-171, Special Issue of Protection and Restoration of the Environment VII (Μέρος Ι), Editor in Chief M.S. Bruno, Guest Editor: **V.K. Tsoukala.**
- Journal of Marine Environmental Engineering, 2005. Vol. 7 No 4, pp. 231-307, Special Issue of Protection and Restoration of the Environment VII (Μέρος Ι), Editor in Chief M.S. Bruno, Guest Editor: **V.K. Tsoukala.**

## **SUMMARY OF PUBLICATIONS**

<b>Category</b>	<b>Last 5 years</b>	<b>As Associate Professor</b>	<b>Total</b>
<b>A. PhD Thesis</b>			1
<b>B. Scientific journals (peer-reviewed)</b>	11+3*+3**	7+3*+3	25+3*+3**
<b>C. Special issues</b>	2	2	4
<b>D. Proceedings of Conferences (full paper peer-review)</b>			
<b>International</b>	7	4	39
<b>National</b>	3	2	16
<b>E. Proceedings of Conferences (abstract review)</b>			
<b>International</b>	15	14	17
<b>National</b>	1	-	15
<b>F. Proceedings of Conferences (abstract review and publication)</b>			1



<b>International</b>	5	5	10
<b>National</b>	2	2	2
<b>G. Workshops – Technical journals – Technical reports</b>	3	3	13
<b>J. Journal books</b>	1	1	3
<b>I. Books – Tutoring notes</b>			2
<b>J. Invited presentations</b>	2	2	2

\* under revision

\*\* submitted for publication

#### INVITED PRESENTATIONS TO INTERNATIONAL CONFERENCES AND/OR ADVANCED SCHOOLS

- 2019** “Resilience” as design parameter for urban space, Scientific Workshop, 5 June 2019, Athens, Greece.
- 2016** “Understating coastal stressors resulting in wave overtopping discharge and wave run-up starting from offshore wave processes until shallower water regions”, ASTARTE - PEARL – TANDEM, Joint Summer School, 3-7 June 2016, Technical University of Crete, Chania, Greece.
- 2015** “European Research Program PEARL (Preparing for Extreme And Rare events in coastal regions) Preparing coastal regions for the early reaction to the extreme hydro-meteorological events –Methodology and initial results for the case study of Rethymno of Crete”, Final Workshop, THALIS CCSEAWAVS, 13th November, Thessaloniki, Greece.
- 2014** “Implementation of Water Framework Directive 2000/60 in GREECE”, Beijing Association for Science and Technology, BAST – TCG Workshop, Beijing September 2014.
- 2011** “Wastewater Reuse & Climate Change”, Beijing Association for Science and Technology, BAST – TCG Workshop, Beijing, September 2011.

#### CONFERENCES/WORKSHOPS/etc. [Indicative conferences/workshops]

- 2019** 1<sup>st</sup> International Scientific Conference on Design and Management of Harbor, Coastal and Offshore Works, Athens, Greece, Chairwoman of the Organizing Committee
- 2016 - 2019** 14<sup>th</sup> -16<sup>th</sup> International Conference on Environmental Science and Technology, Member of the Scientific Committee
- 2015** 1<sup>st</sup> Hellenic Conference on Tourist Ports and Marinas, Athens, Greece, Member of the Organizing Committee, Member of the Scientific Committee
- 2015** 1st International Transport Conference & 15th Special Conference of the Hellenic Operational Research Society , Member of the Scientific Committee
- 2015** The 3<sup>rd</sup> Common Conference of the Hellenic Hydrotechnical Association (HHA), the Hellenic Committee for the Water Resources Management (HCWRM) and the Hellenic Water Association (HWA), Member of the Scientific Committee
- 2013** 32<sup>nd</sup> International Conference on Ocean, Offshore and Arctic Engineering (OMA E 2013), Nantes, France, Session Chairwoman
- 2012** Environment and Development, Technical Chamber of Greece (TCG), Athens, Greece, , Member of the Organizing Committee, Session Chairwoman, Member of the Scientific Committee
- 2012** Water footprint: a tool for the rational management of water, Technical Chamber of Greece (TCG), Athens, Greece, Member of the Organizing Committee, Session Chairwoman
- 2012** The Twenty-second (2012) International Offshore and Polar Engineering Conference, Rhodes, Greece, Session Chairwoman
- 2004** Protection and Restoration of the Environment VII, Session 6: “Coastal and Open Sea Water I”, Mykonos, Member of the Organizing Committee, Session Chairwoman
- 1999 - 2014** Hellenic Conference on Management and Improvement of Coastal Zones, Athens, Greece, Member of the Organizing Committee, Member of the Scientific Committee
- 1997 - 2017** Hellenic Conference on Harbor Works, Athens, Greece (every 3 years), Member of the Organizing Committee, Member of the Scientific Committee

## MEMBERSHIPS & REVIEWING ACTIVITIES

<b>2013 - Present</b>	<i>Reviewer in Journals:</i> Journal of Ocean Engineering, Journal of Waterway, Port, Coastal, and Ocean Engineering, Desalination and Water Treatment, Journal of Applied Mathematics, Global Nest Journal
<b>2004 - Present</b>	<i>Reviewer in Conferences:</i> 32 <sup>nd</sup> International Conference on Ocean, Offshore and Arctic Engineering (2012), International Offshore and Polar Engineering Conference (2011), Protection and Restoration of the Environment XI (2011), 5 <sup>th</sup> Hellenic Conference on Harbor Works (2010), Common Conference: 11 <sup>th</sup> Conference of the Hellenic Hydrotechnical Association (HHA) and 7 <sup>th</sup> Conference of the Hellenic Committee for the Water Resources Management (HCWRM) (2009), 4 <sup>th</sup> Hellenic Conference on Management and Improvement of Coastal Zone (2008), 4 <sup>th</sup> Hellenic Conference on Harbour Works (2006), 3 <sup>rd</sup> Hellenic Conference on Management and Improvement of Coastal Zones (2005), Protection and Restoration of the Environment VII (2006), Protection and Restoration of the Environment VII (2004)
<b>1992 - Present</b>	<i>Participation in scientific associations and committees:</i> Hellenic ASCE Group, IAESTE, Hellenic Hydrotechnical Association, Coastal and Maritime Hydraulics of IAHR, EUCC-The Coastal Union, American Geophysical Union (AGU), Hellenic Association of Water Resources Management, COPRI, The Coast, Oceans Ports and River Institute of ASCE, American Society of Civil Engineers (ASCE), European Geophysical Society (EGS), International Association of Hydraulic Researchers (IAHR)

## TEACHING ACTIVITIES

<b>2005 - Present</b>	<i>Undergraduate studies, NTUA, Greece:</i> Advanced Topics in Port Engineering Maritime Hydraulics and Harbour Engineering, Coastal Engineering, Analysis of Water Resources and Environment Systems, Environmental Impacts, Experimental Hydraulics, Environmental Technology
<b>20016 - Present</b>	<i>Postgraduate studies, NTUA, Greece:</i> Environment and Development, Integrated Coastal Zone Management, Harbour and Coastal Works, Protection Works of Coastal Environment (abolished), Environmental Impacts by Hydraulic Works, Coastal Processes and Management
<b>2007 – Present</b>	<i>Postgraduate studies, HOU, Greece:</i> Infrastructure Design and Environmental Protection - Environmental Design, Design, Environmental Impacts and Estimation Methods - Environmental Design, Construction Law and Construction Safety - Project Management
<b>2012 - Present</b>	<i>Technical School of Army Civil Engineering, Greece:</i> Maritime Hydraulics and Harbour Engineering
<b>2001 - 2005</b>	<i>Technical University of Crete, Greece:</i> Coastal Engineering,
<b>2003 2004</b>	<i>Postgraduate studies, Technical University of Crete, Greece:</i> Coastal Hydrodynamics

## SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

<b>2020 - Present</b>	2 Post-Doctoral Researchers, NTUA, Greece
<b>2015 - Present</b>	8 PhD Candidates (4 with PhD scholarship and 2 that are due to complete their PhD thesis within 2020), NTUA, Greece
<b>2012 - 2019</b>	11 Master Students, NTUA, Greece
<b>2007 - 2017</b>	17 Master students, HOU, Greece

## FELLOWSHIPS and AWARDS

<b>2019</b>	3rd Architectural Award for the participation at a Public architectural competition for the regeneration of Koum Kapi at Chania. "Changing urban landscape at the city-sea border. Koum Kapi Chania". Project Team: Mavrommati, S., Gkoumopoulou, G., Stavridi, E., Papathanasiou, G. Tsoukala, V., Adamopoulos, G., Moraitou, A., Maravelaki, N., Mataliotaki, V.
<b>2014</b>	Oikopolis Award for the Diploma Thesis: "Comparative evaluation of methodologies for the calculation of water footprint – Case study of Chania plain", Charchousi, D., School of Civil Engineering, NTUA, Laboratory of Harbour Works, Greece.

**1993** PhD Scholarship by the Special Account for Research Funding of NTUA (duration 6 years), Greece.

## 5. MAJOR CONTRIBUTIONS TO THE EARLY CAREERS OF EXCELLENT RESEARCHERS

- 2020-2022** *Basic Research Support Program, NTUA*  
 Probabilistic representation of coastal storms, Acronym: STORMS2COAST, Duration: 8/12/2020-8/12/2022. Researchers involved: Malliouri D. (Postdoctoral researcher) and Martzikos N. (PhD candidate).
- 2019 - 2021** *Support of researchers with emphasis on young researchers, Call B*  
 Coastflood: Coastal Flooding Warning System by means of Artificial Intelligence (2019-2021). Operational Program “Development of Human Resources, Education and Lifelong Learning”, Ministry of Finance, National Strategic Reference Framework (NSRF) 2014-2020. Researchers involved: Chondros M. (Postdoctoral researcher) and Metallinos A. (Postdoctoral researcher).
- 2016 - 2017** *Excellence Program of State Scholarships Foundation (SSF) / SIEMENS*  
 Sustainable design of coastal structures and adaptation to climate change hazards (2016-2017). Researchers involved: Afentoulis V. (PhD candidate) and Malliouri D. (PhD candidate).
- 2010 - 2012** *Basic Research Support Program, NTUA*  
 Investigation of wave propagation at coastal structures through renewal pipelines (2010-2012). Researchers involved: Katsardi V. (Postdoctoral researcher) and Chondros M. (PhD candidate).

## RESEARCH GRANTS [Indicative funding research projects]

Project Title	Funding source	Period	Role
Research and scientific support of the Technical Chamber of Greece (TCG) during the preparation of the PSE of the EPS of the fire-affected area in Mati, Attica	Technical Chamber of Greece	2022	Research Team Member
ARSINOE Climate Resilient Regions through systematic solutions and innovations	HORIZON 2020	2021 - Present	Research Team Member
Sustainable Development Plan and Integrated Coastal Zone Management for the Municipality of Thiva through consideration of coastal vulnerability and potential effects of climate change	Municipality of Thiva	2021 - 2022	PI
Coastflood: Coastal Flooding Warning System by means of Artificial Intelligence.	Operational Program “Development of Human Resources, Education and Lifelong Learning”, Ministry of Finance, National Strategic Reference Framework (NSRF) 2014-2020.	2019 - 2021	PI
Accu-Waves: A Decision Support Tool for Navigation Management in Ports.	Operational Programme "Competitiveness, Entrepreneurship and Innovation" (EPAnEK)	2018 - 2021	PI
Investigation of damage origins in the Port of Evidilos, Ikaria	Ministry of Infrastructure, and Transport	2018 - 2019	PI
Studies on the protection and improvement of Avlida coast at Chalkida Municipality	Ministry of Infrastructure, and Transport	2017 - 2018	PI

Sustainable design of coastal structures and adaptation to climate change hazards	Excellence Program of State Scholarships Foundation (SSF) / SIEMENS	2016 - 2017	PI
Investigation of wave propagation at coastal structures through renewal pipelines	Basic Research Support Program, NTUA	2010 - 2012	PI
VIHYDRO II, Hydroelastic response of jacket foundations of offshore wind turbines subjected to hydrodynamic impulsive loading, VIHYDRO II, Marine Renewables Infrastructure Network for Emerging Energy Technologies II (MaRINET2)	European Commission	2018	Research Team Member
Preparing for extreme and rare events in Coastal Regions	PEARL Project, FP7- Collaborative Project, PA, Dr. Joran Vojinovic.	2014 - 2017	Research Team Member
CYPADAPT: Development of a national strategy for adaptation to climate change adverse impacts in Cyprus	EU through LIFE+	2011 - 2014	Research Team Member
Scoping study of coastal/marine renewable energy structures assessment	European, Topic Centre (ETC) on Water European Environmental Agency (EEA)	2010 - 2015	Research Team Member
Wave overtopping on a Berm-breakwater	Basic Research Support, (PEVE) Karatheodoris, NTUA.	2007 - 2009	Research Team Member