

PERSONAL DETAILS

Date of Birth : 20th October 1977
Place of Birth : Thessaloniki, Greece
Nationality : Greek
Marital status : Married, two children
Email : lioumbas@gmail.com

EDUCATION

Doctor of Philosophy, Chemical Engineering, Multiphase Flows – AUTH, March 2006.

Dissertation: Study of stratified co-current gas-liquid downflow in slightly inclined pipes,
Three-member committee: Prof. S.V. Paras, Prof. A.I. Karabelas, Prof. N. Andritsos.

Master of Science, Environmental Catalysis – Greek Open University, Sept. 2009.

Dissertation: Future Trends in Potable water treatment, Supervisor: Prof. P. Samaras.

Diploma in Chemical Engineering (3rd in 110) – AUTH, July 2001.

Dissertation: Local velocities inside the gas phase in counter current two-phase flow in a narrow vertical channel.
Supervisor: Prof. S.V. Paras.

CAREER

- **Thessaloniki Drinking Water and Sewerage SA (EYATH SA): 2017- present**
Research and Development Department,
Division of Strategic Planning, Hydraulic Works & Development
- **Research Fellow – Team manager: 2009 - present**
Funded by European Space Agency and supported by AUTH, School of Chemistry, Division of Chemical Technology; in co-operation with Prof. T.D. Karapantsios.
- **Management of COST Action MP1106: 2012 – 2017**
Funded by European Commission supported by AUTH, School of Chemistry, Division of Chemical Technology; in co-operation with Prof. T.D. Karapantsios.
- **Leader of Early Stage Researchers Group of COST Action MP1106: 2012 – 2016**
AUTH, School of Chemistry, Division of Chemical Technology.
- **Engineering Consultancy: 2007 - 2009**
Consultancy at the firm HYETOS (www.hyetos.gr); in matters concerning Design of Water, Wastewater and Solid waste Treatment Plants, Modeling of Hydraulic Works and Environmental Processes, Environmental Assessments, Project Inception.

GRANTS AND AWARDS

2012: Honorable grand for excellent academic performance as young researcher by the Research Committee of AUTH.

2004-2006: Research Scholarship for Basic Research, “Heracleus” General Secretariat of Research and Sciences, *Budget: 40k€*.

2002-2004: Scholarship for Ph.D. students given under successful exams in “Computational Dynamics”, Greek Institute of State Scholarships.

2004: Honorable grand for excellent young Ph.D students by the Research Committee of AUTH.

2003: “Marie Curie Fellowship”, Continuation of research in Trondheim, Norway, Norwegian University of Science and Technology (NTNU); Supervisor, Prof. O. J. Nydal.

- 2001-2002: "CYCLOP" Scholarship, Chemical Process Engineering Research Institute (CPERI).
- 1998-1999: Honorable distinction for the academic performance, by the National Technical Chamber of Greece,
- 1996-1997: Honorable distinction for the academic performance during the 1st year of studies, by the National Foundation of Scholarships.

PATENTS

1. Method of detecting formations on the surface of lakes or reservoirs, submitted to *National Patent Office*.
2. Rapid test for frying oil rejection, *National Patent Office*.
3. Rotary Planetary Fryer, submitted to *National Patent Office*.

LANGUAGES

Greek : Native speaker

English : Fluently

OTHER

Drone Licensed Professional user A1/A0/A2.

International Journals

- A1** Lioumbas, J.S., Mouza, A.A. & Paras, S.V. 2002, "Local velocities inside the gas phase during counter-current two-phase flow in a narrow vertical channel", Chemical Engineering Research and Design, vol. 80, no. 6, pp. 667-673.
- A2** Lioumbas, J.S., Paras, S.V. & Karabelas, A.J. 2005, "Co-current stratified gas-liquid downflow-Influence of the liquid flow field on interfacial structure", International Journal of Multiphase Flow, vol. 31, no. 8, pp. 869-896.
- A3** Lioumbas, J.S., Mouza, A.A. & Paras, S.V. 2006, "Effect of surfactant additives on co-current gas-liquid downflow", Chemical Engineering Science, vol. 61, no. 14, pp. 4605-4616.
- A4** Lioumbas, J.S., Mouza, A.A., Paras, S.V. & Karabelas, A.J. 2007, "Liquid layer characteristics in stratified gas-liquid downflow: A study of transition to wavy flow", Heat Transfer Engineering, vol. 28, no. 7, pp. 625-632.
- A5** Lioumbas, J.S., Kolimenos, C. & Paras, S.V. 2009, "Liquid layer characteristics in gas-liquid flow in slightly inclined pipes: Effect of non-ionic surfactant additives", Chemical Engineering Science, vol. 64, no. 24, pp. 5162-5172.
- A6** Kakosimos, K., Assael, M.J., Lioumbas, J.S. & Spyridis A.S. 2011, "Atmospheric dispersion modelling of the fugitive particulate matter from overburden dumps with Numerical and Integral Models", Atmospheric Pollution Research, 2, 24-33.
- A7** Lioumbas, J.S., Kostoglou, M. & Karapantsios, T.D. 2012, "Surface water evaporation and energy components analysis during potato deep fat frying", Food Research International, vol. 48, no. 1, pp. 307-315.
- A8** Lioumbas, J.S., Kostoglou, M. & Karapantsios, T.D. 2012, "On the capacity of a crust-core model to describe potato deep-fat frying", Food Research International, vol. 46, no. 1, pp. 185-193.
- A9** Lioumbas, J.S. & Karapantsios, T.D. 2012, "Evaporation front compared with crust thickness in potato deep-fat frying", Journal of Food Science, vol. 77, no. 1, pp. E17-E25.
- A10** Lioumbas, J.S. & Karapantsios, T.D. 2012, "Effect of Potato Orientation on Evaporation Front Propagation and Crust Thickness Evolution during Deep-Fat Frying", Journal of Food Science, vol. 77, no. 10, pp. E297-E305.
- A11** Lioumbas, J.S., Ampatzidis, C. & Karapantsios, T.D. 2012, "Effect of potato deep-fat frying conditions on temperature dependence of olive oil and palm oil viscosity", Journal of Food Engineering, vol. 113, no. 2, pp. 217-225.
- A12** Lioumbas, J.S., Krause, J. & Karapantsios, T.D. 2013, "Hypergravity to explore the role of buoyancy in boiling in porous media", Microgravity Science and Technology, vol. 25, no. 1, pp. 17-25.
- A13** Lioumbas, J.S., Zamanis, A. & Karapantsios, T.D. 2013, "Towards a wicking rapid test for rejection assessment of reused fried oils: Results and analysis for extra virgin olive oil", Journal of Food Engineering, 119, pp. 260-270.
- A14** Lioumbas, J.S. & Karapantsios, T.D. 2014, "Effect of Increased Gravitational Acceleration in Potato Deep-Fat Frying", Food Research International, Vol. 55, pp. 110-118. (Score in Scopus Altmetric in 1/10/2014: 204)
- A15** Lioumbas, J.S., Chatzidafni, A. & Karapantsios, T.D. 2014 "Spatial Considerations on Electrical Resistance Tomography Measurements", Measurement Science and Technology, 25 (5), 055303.
- A16** Kostoglou, M., Lioumbas, J.S. and Karapantsios, T.D. 2015 "A population balance treatment of bubble size evolution in free draining foams", Colloids and Surfaces A: Physicochemical and Engineering Aspects, 473, 75-84.
- A17** Lioumbas, J.S. & Karapantsios, T.D. 2015 "Bubble dynamics and substrate thermalization during boiling in water saturated porous matrix", Experimental Thermal and Fluid Science, 67, 75-80.
- A18** Lioumbas, J.S., Georgiou, E. & Karapantsios, T.D. 2015 "Foam free drainage and bubbles size for surfactant concentrations below the CMC" Colloids and Surfaces A: Physicochemical and Engineering Aspects, 487, 92-103.
- A19** M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, 2016 "Heat transfer enhancement in boiling over modified surfaces: A critical review", Interfacial Phenomena and Heat Transfer, DOI: 10.1615/InterfacPhenomHeatTransfer.2016014133, Volume 3, pages 341-367
- A20** Lioumbas, J.S., Kostoglou, M. & Karapantsios, T.D., 2017. Thermal analysis of pre-boiling regime in frying experiments at several sample orientations and gravity levels. Food and Bioproducts Processing, 102, pp. 350-361.
- A21** M.C Vlachou, J.S Lioumbas, K. David, D. Chasapis, T. Karapantsios, 2017 "Effect of channel height and mass flux on highly subcooled horizontal flow boiling", Experimental Thermal and Fluid Science, Volume 83, May 2017, Pages 157–168.
- A22** Vlachou, M. C., Lioumbas, J. S., Kostoglou, M., David, K., Chasapis, D., Schwarz, C., Loon, J., & Karapantsios, T. (2019). Subcooled flow boiling in horizontal and vertical macro-channel under Earth-gravity and hyper-gravity conditions.

International Journal of Heat and Mass Transfer, 133, 36-51.

- A23** Lioumbas, J. S., Evgenidis, S., Kostoglou, M., and Tsilipiras, T. (2023). Is frying possible in space? Food Research International, 164, 112249.
- A24** Lioumbas, J. S., Anastasopoulou, D., Vlachou, M., Kostoglou, M., & Karapantsios, T. (2023). Low temperature and high-heat-flux frying exploiting increased acceleration values in a planetary motion fryer, submitted in Food and Bioproducts Processing, (under review).
- A25** Lioumbas, J., Christodoulou, A., Katsiapi, M., Xanthopoulou, N., Stournara, P., Spahos, T., Seretoudi, G., Mentas, A. and Theodoridou, N. (2023) 'Satellite remote sensing to improve source water quality monitoring: A water utility's perspective', Remote Sensing Applications: Society and Environment, 32, 101042.
- A26** Kita, A., Manakos, I., Papadopoulou, S., Lioumbas, I., Alagialoglou, L., Katsiapi, M., and Christodoulou, A. (2023) 'Land–Water Transition Zone Monitoring in Support of Drinking Water Production', Water, 15(14), 2596.
- A27** Lioumbas, J. S., Christodoulou, A., Papageorgiou and M., Papastergiou (Forthcoming). Critical review in procedures and standardization in Microplastics Sampling at Wastewater treatment plants.
- A28** Katsiapi, M., Bauer, P., Lioumbas, J. S., Christodoulou, A., Schenk, K., Alexiadou, D., Filippidis, N., Konstantoula, T., Karantoumanis, T. and Manakos, I. (Forthcoming). 'Sensing lake water quality from space. How water utilities can strengthen their performance using satellites'.
- A29** Petromelidou, S., Anagnostopoulou, K., Koronaïou, L.-A., Kalaronis, D., Ainali, N. M., Evgenidou, E., Papageorgiou, M., Christodoulou, A., Lioumbas, I., Kyzas, G. Z., Mitropoulos, A., Bikiaris, D. N., & Lambropoulou, D. A. (In Press, Journal Pre-proof, 6 January 2024). Exploring patterns of antibiotics during and after COVID-19 pandemic in wastewaters of northern Greece: Potential adverse effects on aquatic environment. Science of The Total Environment, 169832. Available online.

Conference Proceedings - Presentations (Talks & Posters)

- B1** Lioumbas, J., Nydal, O.J., Paras, S.V. 2004 Study of free-falling liquid layer in inclined pipes: effect of diameter and inclination angle. 3rd Inter. Symposium on Two-Phase Flow Modeling and Experimentation, Pisa, Italy, pp. IV-2177.
- B2** Lioumbas, J.S., Mouza, A.A., Paras, S.V., Karabelas, A.J. 2005 Liquid layer characteristics in stratified gas-liquid downflow: A study of transition to wavy flow. 4th International Conference on Heat Transfer, Fluid Mechanics & Thermodynamics, Cairo, Egypt.
- B3** Lioumbas, J.S., Paras, S.V. 2005 Effect of surfactant additives on liquid flow-field interaction with the interfacial structure in co-current stratified gas-liquid downflow. 3rd Intern. Workshop on Transport Phenomena with Moving Boundaries, Berlin, Germany.
- B4** Lioumbas, J.S. & Paras, S.V. 2006, "Effect of physical properties on co-current gas-liquid stratified downflow", CHISA 2006 - 17th International Congress of Chemical and Process Engineering.
- B5** Lioumbas, J.S., Chatzidafni, A. & Paras, S.V. 2006, "Liquid layer characteristics in gas-liquid upflow in slightly inclined pipes: Effect of surfactant additives", CHISA 2006 - 17th International Congress of Chemical and Process Engineering.
- B6** Ι.Σ. Λιούμπας, Χ. Κολημένος, Σ.Β. Παράς, 2007, ΕΠΙΔΡΑΣΗ ΕΠΙΦΑΝΕΙΟΔΡΑΣΤΙΚΩΝ ΟΥΣΙΩΝ ΚΑΤΑ ΤΗΝ ΟΜΟΡΡΟΗ ΑΕΡΙΟΥ-ΥΓΡΟΥ ΣΕ ΕΛΑΦΡΑ ΚΕΚΛΙΜΕΝΟΥΣ ΑΓΩΓΟΥΣ, 6ο Πανελλήνιο Συνέδριο Χημικής Μηχανικής- Αθήνα -31 Μαΐου -2 Ιουνίου 2007.
- B7** Kakosimos, E.K, Assael, M.J., Lioumbas, J.S. and Spiridis, A.S. 2008 Atmospheric dispersion modeling of particulate matter from overburden dumps: the case of Amyntaion's mines, 6th GRACM International Congress on Computational Mechanics, Thessaloniki, Greece.
- B8** Hatzidafni A., Evgenidis S., Lioumbas I., Karapantsios T.D., "Electrical resistance tomography in upward co-current bubbly flow", 4th International Workshop Bubble and Drop Interfaces, B&D2009, jointly organized with COST P21 8th Management Committee and Working Groups, September 23-25, 2009, Thessaloniki, Greece.
- B9** Lioumbas, J.S. and Karapantsios, T. 2011 Potato deep-fat frying. The role of buoyancy on heat and mass transfer phenomena, 11th International Congress on Engineering and Food, Athens, Greece.
- B10** Lioumbas, J.S., Kostoglou, M. and Karapantsios, T., 2011. Transient mass and heat transfer during potato deep fat frying – The effect of the oil type, frying load and initial frying temperature. In: Proceedings of the 11th International Congress on Engineering and Food, Athens, Greece, 22-26 May. Vol. 3, pp.1927-1928. ISBN: 978-960-89789-5-9.
- B11** Lioumbas, J.S., Krause, J. and Karapantsios, T. 2011 Hypergravity to explore the role of buoyancy in boiling in porous media, ELGRA Biennial Symposium, Antwerp, Belgium.

- B12** Lioumbas, J.S. and Karapantsios, T.D. 2012 Triggering buoyancy in boiling over porous media, 5th International Workshop on Bubble and Drop Interfaces 2012, 20- 24 May Krakow, Poland.
- B13** Lioumbas, J.S. and Karapantsios, T.D. 2012 Effect of gravity on heat and mass transfer phenomena during the immersion of a water saturated porous matrix in hot oil, ECI-8TH Lausanne, 3-7 June, 2012.
- B14** Lioumbas, J.S. Krause, J., Toth, B., and Karapantsios, T.D. 2012 Boiling over water saturated porous matrix submerged in hot oil – Influence of hypergravity, ECI-8TH Lausanne, 3-7 June, 2012.
- B15** Lioumbas, J.S., Lestos, N. and Karapantsios, T.D. 2013 Effect of thermal gradients on heat and mass transfer phenomena during the immersion of a water saturated porous matrix in hot oil, Smart and Green Interfaces Workshop, Prague, Czech Republic.
- B16** Lioumbas, J.S. and Karapantsios, T.D. 2013 Effect of gravity on heat and mass transfer phenomena during immersion of a water saturated porous matrix in hot oil, Smart and Green Interfaces Workshop, Prague, Czech Republic.
- B17** Lioumbas, J.S., Zamanis, A., & Karapantsios, Th. (2013). Capillary rise in porous media to set rejection criteria for reused fried oils. Paper presented at the 5th Panhellenic Conference GLF: Contemporary Trends in the Lipids Sector, Greek Lipid Forum, Harokopio University, Athens, March 29.
- B18** John S. Lioumbas, Evanthia Georgiou, Thodoris D. Karapantsios, “Surface shear viscosity in foam free drainage: Global vs local measurements”, 10th European Conference on Foams, Emulsions and Applications (EUFOAM2014), Thessaloniki, Greece, 7-10 July 2014.
- B19** John S. Lioumbas, Thodoris D. Karapantsios, “Influence of gravity level to oil/vapour foam stability during frying”, 10th European Conference on Foams, Emulsions and Applications (EUFOAM2014), Thessaloniki, Greece, 7-10 July 2014.
- B20** Kostoglou, M., Lioumbas, J.S. and Karapantsios, T.D. 2014 INVERSE POPULATION BALANCE TREATMENT OF BUBBLE COALESCENCE IN FOAMS, EUFOAM, 7-10 July, Thessaloniki, Greece.
- B21** Vlachou, M., Lioumbas, J.S. and Karapantsios, T.D. 2014 Device for the study of highly efficient flow boiling heat transfer in a macro-channel, Smart and Green Interfaces Conference – COST MP1106, Marseille – April 22nd to 24th.
- B22** Lioumbas, J.S., Zamanis, A. and Karapantsios, T.D. 2014 Capillary rise in porous media to set rejection criteria for reused fried oils, Smart and Green Interfaces Conference – COST MP1106, Marseille – April 22nd to 24th.
- B23** Lioumbas, J.S. and Karapantsios, T.D. 2014 Bubble dynamics and substrate thermalization during boiling in water saturated porous medium, Heat Transfer and Fluid Flow in Microscale V, 22-26 April, Marseilles, France.
- B24** A. Plomaritis, M. Kostoglou, J. Lioumbas, T.D. Karapantsios, P. Xidas, K. Triantafyllidis, D. Bikiaris “Innovative device for measuring the thermal conductivity of polymeric materials of high heterogeneity and uneven surface”, 10th Hellenic Polymer Society Conference, Patras (Greece), December 4-6, 2014.
- B25** M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, “Flow boiling inside an horizontal and inclined macro-channel”, 12o Συνέδριο Χημείας Ελλάδος-Κύπρου, Θεσσαλονίκη, 8-10 Μαΐου, 2015. POSTER.
- B26** A. Plomaritis, M. Gannoum, M. Kostoglou, J. S. Lioumbas, T. D. Karapantsios, P. Xidas, K. Triantafyllidis, D. Bikiaris, “Development of a new technique for measuring thermal conductivity of polymeric materials”, 12o Συνέδριο Χημείας Ελλάδος-Κύπρου, Θεσσαλονίκη, 8-10 Μαΐου, 2015. POSTER.
- B27** J. S. Lioumbas, A. Zamanis, G. Loywick, B. Brut-Cottan and T.D. Karapantsios, “Effect of substrate topology on capillary rise in porous media. Application to evaluation of porous sheets for rapid quality test of used oils”, 12o Συνέδριο Χημείας Ελλάδος-Κύπρου, Θεσσαλονίκη, 8-10 Μαΐου, 2015. POSTER.
- B28** Vlachou M. C., Lioumbas J. S., David C. N., Chasapis D., Karapantsios T. D., Heat Transfer Characteristics During Subcooled Flow Boiling: Influence of Channel Inclination Angle, 6th Bubble and drop interfaces 6-10 July 2015, Potsdam-Golm Germany.
- B29** M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, Flow boiling heat transfer as means of cooling in a rectangular macrochannel, Smart and Green Interfaces Conference, 30. March-01. April 2015, Belgrade, Serbia.
- B30** Lioumbas, J. S., Zamanis, A., Loywick, G., Brut-Cottan, B., & Karapantsios, T. D. (2015). Effect of substrate topology on capillary rise in porous media: Application to evaluation of porous sheets for rapid quality test of used oils. Paper presented at the Smart and Green Interfaces Conference, Belgrade, Serbia, 30 March - 01 April.
- B31** Kostoglou, M., Lioumbas, J.S & Karapantsios, T. 2015, Inverse population balance treatment of bubble size evolution in free draining foams', presented at Smart and Green Interfaces Conference, Belgrade, Serbia, 30 March - 01 April.
- B32** M. Kostoglou, J. Lioumbas, T.D. Karapantsios “Analysis of bubble size evolution in free draining foams” International Workshop in Flowing Matters (COST MP1305), Sofia, Bulgaria, 27-28 April, 2015.
- B33** Lioumbas, J.S., Zamanis, A., Loywick, G., Brut-Cottan, B. and Karapantsios, T.D., 2015. Effect of substrate topology on

- capillary rise in porous media. In: Proceedings of the International Workshop in Flowing Matters (COST MP1305), Sofia, Bulgaria, 27-28 April.
- B34** J. S. Lioumbas, T. D. Karapantsios, "Buoyancy during boiling over porous media: scaling gravitational acceleration from 0 to 9g", 22nd ELGRA Symposium, Corfu, Greece / September 29th – October 1st, 2015. POSTER.
- B35** M. C. Vlachou, J. S. Lioumbas, C. David, T. D. Karapantsios, "Subcooled flow boiling in a rectangular macro-channel at high mass flow rates: Performance of horizontal and vertical orientation", poster & short oral, International Symposium and School for Young Scientists Interfacial Phenomena and Heat Transfer, Novosibirsk, Russia, March 2-4 (2016).
- B36** M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, "Highly subcooled flow boiling in macro-channels: Effect of channel's height and orientation" poster, Smart and Green Interfaces Conference & COST MP1106 Annual meeting, Athens, Greece, May 4-6 (2016).
- B37** Lioumbas, J.S. and Karapantsios, T.D., 2016. A Prototype Carousel-Type Device For Studying Boiling In Porous Matrix At Microgravity Conditions. Presented at: Smart and Green Interfaces Conference & COST MP1106 Annual Meeting, 4-6 May. Athens, Greece.
- B38** Vlachou, M.C., Lioumbas, J.S. and Karapantsios, T.D., 2016. Flow boiling incipience in macro-channels: Working conditions that maximize heat removal. Presented at: Smart and Green Interfaces Conference & COST MP1106 Annual Meeting, 4-6 May. Athens, Greece.
- B39** M. C. Vlachou, J. S. Lioumbas, C. David, D. Chassapis, T. D. Karapantsios, "The effect of increased gravitational acceleration on flow boiling incipience" oral, 11th International Conference on Two-phase Systems for Ground and Space Applications, Marseille, France, September 26-29 (2016).
- B40** Lioumbas J.S., Vlachou M.C., Oikonomidou O., Karapantsios T.D., "LDC as a tool to explore the role of buoyancy in bubbles related applications", Hypergravity Workshop, ESA-ESTEC, Noordwijk, The Netherlands, January 25 –26, 2018.
- B41** Lioumbas, J. S., Evgenidis, S. P., Tsilipiras, T., Kostoglou, M., & Karapantsios, T. D. (2019). Effect of micro-gravity on boiling during the immersion of a water-saturated porous matrix in hot oil. Poster presented at the 26th European Low Gravity Research Association Biennial Symposium and General Assembly, 14th International Conference on "Two-Phase Systems for Space and Ground Applications," European Space Agency Topical Teams meetings, Granada, Spain, September 24-27.
- B42** Lioumbas, J. S., Kostoglou, M., & Karapantsios, T. D. (2019). Estimation of heat transfer coefficient during pre-boiling period in frying experiments at several sample orientations and gravity levels. Poster presented at the 26th European Low Gravity Research Association Biennial Symposium and General Assembly, 14th International Conference on "Two-Phase Systems for Space and Ground Applications," European Space Agency Topical Teams meetings, Granada, Spain, September 24-27, 2019. (Poster 041).
- B43** Christodoulou, A., Lioumbas, J., Zambetoglou, K., & Xanthopoulou, N. (2021). Combined innovative technologies for ensuring water safety in utilities: The city of Thessaloniki case study. In Proceedings of the International ISCRAM Conference, 2021 (pp. 929–934).
- B44** Lioumbas, I., Christodoulou, A., Katsiapi, M., Spahos, T. (2021). Exploring the advantages of satellite-based tools in a Wastewater and Water Utility: Challenges and opportunities (Paper Number 98, Submitted). Poster presentation. In 4th Hydrospace-GEOGloWS 2021 Conference Proceedings.
- B45** Lioumbas, J., Traganos, D., & Christodoulou, A. (2021). Oil spill model in a reservoir: a parametric study based on satellite data. In AQUA≈360: Water for All Emerging Issues & Innovations, 31st August 2021 to 2 September 2021.
- B46** Lioumbas, J., Christodoulou, A., Papageorgiou, M., Papastergiou, F., Kalaronis, D., Ainali, N.M., Kyzas, G.Z., Bikiaris, D.N., Lambropoulou, D. (2022). Microplastics presence at WWTP effluent: Sampling and preliminary findings in the case of Thessaloniki. Paper presented at the 6th International Congress: Water, Waste and Energy Management, Rome, Italy.
- B47** Lioumbas, I., Christodoulou, A., Papageorgiou, M., Papastergiou, F. (2022). Designing a microplastics sampling procedure in Thessaloniki Wastewater Treatment Plant. Paper presented at the European Wastewater Management Conference & Exhibition, Birmingham, UK, 12-13 July 2022.
- B48** Anagnostopoulou, K., Nannou, C., Ainali, N.-M., Kalaronis, D., Evgenidou, E., Christodoulou, A., Lioumbas, I., Kyzas, G.Z., Bikiaris, D.N., Lambropoulou, D.A. (2022). Development and application of a multiresidue method for the identification and quantitation of pharmaceutically active substances in wastewaters by means of high-resolution mass spectrometry. Paper presented at the 8th National Conference of Metrology (Metrology 2022), Thessaloniki,

Greece, 01-02 July 2022.

- B49** N.-M. Ainali, A. Kontogiannis, D. Kalaronis, E. Evgenidou, M. Papageorgiou, K. Christodoulou, I. Lioumbas, G.Z. Kyzas, A.C. Mitropoulos, D.N. Bikiaris, D.A. Lambropoulou, "Microplastics determination in treated wastewaters with the techniques of microscopy and pyrolysis-GC/MS", 1st Virtual Conference of Young Researchers "Mineral Resources - Environment-Chemical Engineering", Kozani, Greece, 26-28 February 2021.
- B50** D. Kalaronis, N.-M. Ainali, D.A. Lambropoulou, E. Evgenidou, D.N. Bikiaris, G.Z. Kyzas, M. Papageorgiou, A. Christodoulou, I. Lioumbas, "Occurrence of microplastics in wastewater treatment plant in the city of Thessaloniki", 12th International Conference on "Instrumental Methods of Analysis", Thessaloniki, Greece, 20-23 September 2021.
- B51** Bakratsas, M., Moumtzidou, A., Gialampoukidis, I., Lioumbas, I., Iliadis, D., Christodoulou, C., Katsiapi, M., Vourvachis, I., Vrochidis, S., Kompatsiaris, I. (2022). Assisting First Responders in Water-Borne Hazards in Northern Greece through Pathocert Solutions. Paper presented at Safe Thessaloniki 2022, Thessaloniki, Greece.
- B52** Kalaronis, D., Ainali, N.M., Papageorgiou, M., Evgenidou, E., Christodoulou, A., Lioumbas, I. (2022). Identification and quantification of microplastics in wastewater samples collected from Wastewater Treatment Plant of Thessaloniki. Paper presented at the 11th European Conference on Pesticides and Relevant Organic Micropollutants in the Environment, Thessaloniki, Greece.
- B53** Kita, A., Sismanis, M., Manakos, I., Kalogeropoulos, C., Christodoulou, C., Lioumbas, J.S. (2022). Fusion of Sentinel-1 and Sentinel-2 data for inundation mapping in service of the water utilities. Paper presented at the Living Planet Symposium 2022.
- B54** Katsouras, G., Konstantinopoulos, Sp., De Keukelaere, L., Moelans, R., Christodoulou, C., Bauer, Ph., Tsalas, N., Hatzikonstantinou, P., Lioumbas, I., Katsiapi, M., Samios, S., Sachinis, G., Bomans, B., Manakos, I. (2022). Unmanned vehicles combined with satellite observations as a complement tool for water quality of Lake Marathon. Paper presented at Towards an integrated and convergent EuroGEO 2022, Athens, Greece, 07-09 December 2022.
- B55** Katsiapi, M., Lioumbas, J., Christodoulou, A., Bauer, P., Schenk, K., Alexiadou, D., Filippidis, N., Konstantoula, T. and Karantoumanis, T. (2023). 'Sensing' harmful blooms from space: How water utilities can strengthen their performance using satellites. Paper presented at the Water Innovation and Circularity Conference (WICC), 7-9 June, Athens, Greece.
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