

Georgios SYLAIOS

Professor at Democritus University of Thrace

60 years old

Democritus University of Thrace

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DEMOCRITUS UNIVERSITY OF THRACE (DUTH)

DUTH was founded in 1974 and is the only University in NE Greece. It is based in the seven cities of East Macedonia and Thrace (Kavala, Drama, Xanthi, Komotini, Alexandroupoli, Didimoticho, and Orestiada). DUTH educates approximately 40,000 undergraduate and 5,500 postgraduate students, as well as 1,800 PhD candidates, across 10 Faculties and 21 Departments. It employs 596 Professors of various specializations. The Department of Environmental Engineering began operations in 1996, providing academic training through an interdisciplinary, multi-level approach. Students understand, study, and solve sustainable environmental problems related to the atmosphere, surface waters and groundwater, soils, and the living areas of modern Humans, involving many technical, social, ecological, and financial factors. The Laboratory of Ecological Engineering and Technology covers all aspects of water and environmental research (inland surface and groundwater, coastal aquatic systems, integrated management of water and wastewater, etc.).

SUMMARY

Georgios Sylaios is a Professor at the Democritus University of Thrace (DUTH), Faculty of Engineering, Department of Environmental Engineering, Xanthi, Greece. He was the Department Chair from 2014 to 2016. He is the Director of the Laboratory of Ecological Engineering and Technology. Sylaios is a physical oceanographer by training, with extensive experience in coordinating European- and nationally-funded research projects. He has coordinated 41 research projects with a total budget of € 6.5 million. He coordinated the ODYSSEA Blue Growth research project, funded under Horizon 2020, with a total budget of 8.4 MEuros. His publication record includes 110 scientific papers in peer-reviewed international journals, 82 papers in peer-reviewed international proceedings, 55 papers in national proceedings, 42 technical reports, 1 e-book, 11 book chapters, and 4 special issues as a Guest Editor. His works have received more than 3,100 citations (h-index 31). He has been a member of the UN Group of Experts for the “Second Assessment of the Global Ocean – Status, Trends and Challenges” and an external advisor to the Hellenic Ministry of Environment on MSFD implementation. He is the co-founder and Chairman of the spin-off company ENVRIO, which applies precision irrigation at the farm level using satellite imagery, drone imagery, soil and moisture sensors, and simulations for water balance and management.

QUALIFICATIONS / EDUCATION

1994, PhD in Oceanography, Numerical Modeling and Management of Coastal Systems, University of Southampton, UK. **1992**, Diploma in Management Studies, University of Portsmouth, UK. **1991**, MSc in Oceanography, University of Southampton, UK. **1987**, Degree in Geology, University of Patras, Greece.

PROFESSIONAL EXPERIENCE:

2016-present, Professor at DUTH, Department of Environmental Engineering, Director of Laboratory of Ecological Engineering & Technology. **2012-2016**, Associate Professor at DUTH, Department of Environmental Engineering, Director of Laboratory of Ecological Engineering & Technology, **2007-2012**, Assistant Professor at DUTH, Department of Environmental Engineering. **2000-2007**, Researcher in the field of ‘Coastal Oceanography’, Fisheries Research Institute, National Agricultural Research Foundation. **1998-2000**, Civil Servant C-grade, Regional Authority of East Macedonia & Thrace, Division for Planning and Development, Department of Water Resources Management. **1995-1997**, Research Assistant, Fisheries Research Institute, National Agricultural Research Foundation, **1988-1989**, Trainee, Commission of the European Communities, DG XII for Science, Research and Development, Program Marine Science and Technology (M.A.S.T), **1987-1988**, Research Fellow, University of Patras.

TEACHING AND SUPERVISION:

Teaching at the undergraduate level the following subjects: “Computer Programming in R language” (1st semester), “Physical Oceanography” (2nd semester), “Management of Coastal Aquatic Systems” (7th semester), “Environmental Coastal Engineering” (9th semester), “Environmental Fluid Mechanics” (9th semester).

Teaching at the post-graduate level, the following subjects: “Coastal Engineering and Technology” MSc Program in “Environmental Science and Technology”; “Natural resources and ecosystems” MSc Program in Environmental Technologies in Environmental Legislation; Lectures at the MSc “Environment and Behavior”; Lectures at the MSc “Management and Simulation of Environmental Systems”.

Supervision of 9 Ph.D. and 40 MSc theses.

RESEARCH INTERESTS:

Research in management and operational modeling of hydrography and biogeochemistry in coastal aquatic systems; hydrology and nutrients management of streams and rivers (mostly heavily modified); water resources management at river-sea systems; precision irrigation and water saving technologies at farm scale; numerical models nesting, coupling, and predictive operation; artificial intelligence; machine learning; neuro-fuzzy modeling.

LEADERSHIP, COORDINATION, AND PARTICIPATION IN RESEARCH PROJECTS

(43 research projects, Grants Sum: 7,082,762 euros, EU-funded: 5,609,238 euros, National-funds: 1,473,524 euros):

2024 – 2027, Project and Scientific Coordinator, “EfxINNOs: Establishing and Operating an Innovative Marine Technology Transfer Network for Enhancing the Transition to a Sustainable Blue Economy in the Black Sea Basin”, (Interreg VI-B) NEXT Black Sea Basin Program and National Funds, Budget: 470,521.80 Euros.

2024 – 2026, Partner, “SEAGUARD: Development of Advanced Technologies for Monitoring the Coastal Zone of the Region of Central Macedonia, with emphasis on predicting the occurrence of extreme phenomena in view of the Climate Crisis”, Funding Central Macedonia Regional Authority, Budget: 18,800.00 Euros.

2024 – 2027, Partner, “ECOTWIN: Emulating Complex Causal Socio-ecological Models in Digital Twins of Ocean”, Horizon Europe, Budget: 344,375.00 Euros.

2024 – 2025, “EROSION: Investigation of the morphodynamic regime of the Coasts of the Region East Macedonia – Thrace – Proposals for treating the erosion phenomena using advanced numerical techniques”, Region of East Macedonia – Thrace, 15,000.00 euros.

2024, Coordinator, “Bathymetric mapping and seabed sediments grain size analysis and coherence of the Eratino Lagoon”, Funding FRAPORT, Budget: 9,424.00 Euros.

2024 – 2029, Partner, “DesirMED: Demonstration and mainstrEaming of nature-based Solutions for climate Resilient transformation in the MEDiterranean”, Horizon Europe, Budget: 837,250.00 euros.

2023, Scientific Coordinator, “Development of a web-based information system for fishermen and broad public on the prevailing met-ocean conditions and its pilot operation”, Metrica SA and Municipality of Kavala, National Operational Framework, Budget: 27,000.00 Euros.

2022 – 2025, Partner, “OTTERS: Societal Transformation for Marine and Freshwater Stewardship through Scaling Up Citizen Science”, Horizon Green Deal, Budget: 86,625.00 euros.

2021 – 2024, Scientific Coordinator, Work-package Leader, “ILIAD: Integrated Digital Twins for Marine and Maritime data and Information Services”, Horizon Green Deal, Budget: 423,750.00 euros.

2021 – 2025, RTD Manager, Work-package Leader, “ECOSCOPE: Ecocentric management for sustainable fisheries and healthy marine ecosystems”, Horizon 2020, Budget: 452,500.00 euros.

2020 – 2023, Work-package Leader, “Eye4Water: Strengthening the water management practices (in EMT-R) through the development of innovative ICT methodologies and improvement of research infrastructures”, GSRT, Regional Excellence Program, Budget: 1,426,339.40 euros.

2017-2021, Project Coordinator of the Horizon2020 funded project “ODYSSEA: Operation of a network of integrated observatory systems in the Mediterranean Sea”. The Project has a budget of 8.4 MEuros and involves 29 partners. Budget: 407,500.00 euros.

2020 – 2022, Partner, “PONTOS: Copernicus assisted environmental monitoring across the Black Sea Basin”, Interreg Black Sea Basin, Budget: 160,432.28 euros.

2017 – 2020, Scientific Coordinator, “HERMES: Harmonized framework to Mitigate coastal Erosion promoting ICZM protocol implementation”, Interreg Balkan Med, Budget: 175,573.44 euros.

2017-2020, Partner, “DANUBIUS – PP: Preparatory phase for the Pan-European Research Infrastructure DANUBIUS–RI “The International Centre for Advanced Studies on River-Sea Systems”, Horizon2020 - INFRADEV Project, Budget: 57,350 euros.

2014-2015, Project Coordinator, “KALLIPOS Project for E-book entitled: ‘Environmental Computational Fluid Mechanics”, KALLIPOS, Ministry of Education, Budget: 10,000 Euros.

2014-2015, Project Coordinator, “Specialized services for data collection, hydraulic models application, scenario analysis and supply of scientific instrumentation”, Municipality of Thessaloniki, Budget: 38,000 Euros.

2014-2018, Greek National Representative, Cost Action EOS 1402 “Evaluation of Ocean Syntheses”. Participant in the WG4 “Downscaling issues from global to regional syntheses”, COST Action Program, Budget: 10,000 Euros.

2013-2015, Scientific Coordinator, “WASTEnet – A Black Sea Network Promoting Natural Systems for the Integrated Water and Wastewater Management at Drainage Basin Scale”, Black Sea Basin CBC Program, Budget: 75,000 Euros.

2013-2015, Work-Package Leader, “MARE NOSTRUM: Bridging the Implementation Gap – Facilitating Cross-border ICZM implementation by lowering legal – institutional barriers in the MSB”, ENPI CBC-MED Program, Budget: 256,000 Euros.

2012-2016, Partner, “FIGARO: Flexible and Precision Irrigation Platform to Improve Farm Scale Water Productivity” (www.figaro-irrigation.net/), EU FP7 R&D Program, Budget: 280,000 Euros.

2011-2015, Project Coordinator, “Vocational Training of Department Environmental Engineering Students”, Ministry of Education, Budget: 121,000 Euros.

2011-2012, Expert External Participant, “**KUNSHEN**: Barrier island hydro-morphodynamics driven by typhoon events”, Taiwan-France Bilateral Science Collaboration Program, Budget: 26,000 Euros.

2010-2011, Work-Package Leader, “**ULYSSES**: Using Applied research results from ESPON as a yardstick for cross-border spatial development planning”, ESPON Project, Budget: 39,200 Euros.

2009, Project Coordinator, “Development of scientific software and environmental database for the Nestos River National Park”, Management Body of Nestos River and Vistonis-Ismaris Lagoons Natural Protected Area, Budget: 10,000 Euros.

2009, Project Coordinator, “Collection and assessment of existing environmental studies and research results for the Nestos River National Park”, Management Body of Nestos River and Vistonis-Ismaris Lagoons Natural Protected Area, Budget: 10,000 Euros.

2009, Project Coordinator, “Oceanographic, wave and coastal engineering study for the modernization of the Old Harbor of Kavala City”, Kavala Port Authority, Budget: 23,000 Euros.

2009-2010, Project Leader, “Healthy Rivers and the Implementation of Sustainable Water Resources Management in China”, EU-China Forum project, Budget: 25,000 Euros.

2008, Participant, “UNESCO Ecohydrology Student Exchange Program”, UNESCO Ecohydrology Grants, Budget: 10,000 Euros.

2007-2009, Project Coordinator, “Scientific management and implementation of EPPER Project”, Management Body of Nestos River and Vistonis-Ismaris Lagoons Natural Protected Area, Budget: 30,000 Euros.

2007-2009, Work-Package Leader, “**Nestos WFD**: Implementation of environmental monitoring of surface and underground water resources in Nestos River drainage basin”, Ministry of Environment, Pilot study under the requirements of Water Framework Directive, Budget: 800,000 Euros.

2007, Project Coordinator, “**ManageMED** - Collection of physical, chemical and environmental data from Nestos River Lagoons”, Technical University of Kavala, Budget: 10,000 Euros.

2006, Participant, “Technical and Environmental Study for the deployment of an artificial reef in the marine area of Kitros, Pieria”, Ministry of Agriculture, Budget: 130,000 Euros.

2006-2007, Project Coordinator, “Development and improvement of infrastructure at the Fisheries Research Institute”, Regional Authority of East Macedonia – Thrace, Budget: 870,000 Euros.

2006-2008, Work-Package Leader, Interreg IVC Med Project “**BEACHMED-E / NAUSICAA**: Wave and hydrodynamic climate monitoring and modelling”, Interreg IVC CBC-Med Project, Budget: 76,630 Euros.

2006-2008, Project leader, “**Interplume**: Monitoring and modelling of water quantity and quality of Nestos River plume – Implications of River Damming, Interreg IIIA Greece-Bulgaria, Budget: 80,000 Euros.

2006-2008, Project Coordinator, “**INTERFISH**: Management Actions for the Protection and Sustainability of Nestos River Fish Fauna”, Interreg IIIA Greece-Bulgaria Project, Budget: 163,532 Euros.

2005, Partner, “**HERMES**: Science and Technology Promotion Week”, General Secretariat for Research and Technology, Budget: 10,000 Euros.

2005-2006, Work-Package Leader, “Biological sampling with experimental purse seine in the marine area of the Republic of Cyprus”, Ministry of Fisheries, Cyprus, Budget: 25,000 Euros.

2003-2006, Work-Package Leader, “**ANREC** - Association of Physical and Biological processes acting on Recruitment and Post-Recruitment stages of Anchovy”, FP6 R&D Project, Budget: 82,000 Euros.

2002-2005, Scientific Coordinator, “Habitat Management and Raptor Conservation in Nestos Delta and Gorge”, LIFE-Nature Project, Budget: 58,000 Euros.

2002-2004, Project Coordinator, “Assessment of the environmental quality of the coastal marine environment of Kavala Gulf, N. Greece”, Prefectural Authority of Kavala, Budget: 67,150 Euros.

2002-2003, Project Coordinator, “Institution Building for the Maltese Department of Fisheries and Aquaculture”, PHARE Twining Project, budget: 77,000 euros.

2001, Project Coordinator, “Assessment of Environmental Impacts from the construction and operation of the Burgas - Alexandroupolis oil pipeline”, Ministry of Environment, budget: 6,000 euros.

PUBLICATIONS:

The publication list includes >300 scientific publications: 109 in peer-reviewed international journals, 90 in peer-reviewed international proceedings, 53 in national proceedings, 42 technical reports, one e-book, 11 book chapters, and six special issues as Guest Editor. His work has received more than 3,500 citations, with an H-index of 34.

Peer-Reviewed Papers

Myrintzou, V., Kokkos, N., Edelist, D., Kazanjian, G., Sylaios, G., 2026. The Role of Citizen Science Data Standardization for the Marine Strategy Framework Directive Implementation. *Oceans*, 7, 36, <https://doi.org/10.3390/oceans7030036>.

Zachopoulos, K., Kokkos, N., Elmasides, C., Melidis, P., Sylaios, G., 2026. A Coupled Hydrodynamic–Energy Production Model for Optimal Salinity Gradient Energy Plant Siting in the Strymon River Estuary, Greece. *Applied Sciences*, 16, 1332, <https://doi.org/10.3390/app16031332>.

- Keramea, P., Zodiatis, G., Sylaios, G., 2026. Analysis of Major Global Oil Spill Incidents: Part 1 - Environmental and Ecological Impacts. *J. Mar. Sci. Engin.*, 14(2), 153. <https://doi.org/10.3390/jmse14020153>.
- Nordam, T., Abascal, A.J., Aragón, G., Babaei, H., Barker, C.H., Chang, K.-H., Dagestad, K.F., Duran, R., French-McCay, D., Gloekler, M., Hospital, A., Keramea, P., Legrand, S., Lemos, A.T., Lin, Y., Mashayekhi, R., McGrath, G., Mostaani, A., Mueller, R.D., Pettit, D.J., Skancke, J., Song, Y., Liubartseva, S., Sylaios, G., Zacharias, D.C., Zodiatis, G., 2026. Future directions in oil spill modeling. *Marine Pollution Bulletin*, In Press.
- Daskalov, G.M., de la Puente, S., Scotti, M., Klayn, S., Briguglio, M., Coro, G., Gal, G., Heymans, J.J., Rodriguez-Perez, A., Steenbeek, J.G., Sylaios, G., Tsikliras, A.C., 2025. Managing fisheries and ecosystems: current good practices and the EcoScope project experience. *Front. Mar. Sci.* 12:1640487. doi: 10.3389/fmars.2025.1640487.
- Keramidas, I., Dimarchopoulou, D., Kokkos, N., Islam, T., Halouani, G., Sylaios, G., Tsikliras, A.C., 2025. Integrating marine protected areas and spatial fisheries restrictions in ecosystem models of the Aegean Sea. *Ecological Modelling*, 510, 111278, <https://doi.org/10.1016/j.ecolmodel.2025.111278>.
- Zachopoulos, K., Kokkos, N., Dal Barco, M.K., Furlan, E., Pham, H.V., Torresan, S., Critto, A., Sylaios, G. 2025. A harmonized framework to assess coastal erosion blending Copernicus marine data products and satellite imagery along Greek and Italian shorelines. *Front. Environ. Sci.* 13:1602740. doi: 10.3389/fenvs.2025.1602740.
- Keramidas, I., Dimarchopoulou, D., Kokkos, N., Sylaios, G., Tsikliras, A.C., 2024. Temporal ecotrophic impacts of fisheries and climate change in the Aegean Sea. *Marine Ecology Progress Series*, 749, 19-45, <https://doi.org/10.3354/meps14724>.
- Dal Barco, M.K., Furlan, E., Vuong Pham, H., Torresan, S., Zachopoulos, K., Kokkos, N., Sylaios, G., Critto, A., 2024. Multi-scenario analysis in the Apulia shoreline: a multi-tiers analytical framework for the combined evaluation and management of coastal erosion and water quality risks. *Environmental Science and Policy*, 153, 103665, <https://doi.org/10.1016/j.envsci.2023.103665>.
- Zacharias, D.C., Lemos, A.T., Keramea, P., Dantas, R.C., da Rocha, R.P., Crespo, N.M., Sylaios, G., Jovane, L., da Silva Santos, I.G., Montone, R.C., de Oliveira Soares, M., Lourenço Zacharias, R.A., 2024. Offshore oil spills in Brazil: An extensive review and further development. *Marine Pollution Bulletin*, 205, 116663, <https://doi.org/10.1016/j.marpolbul.2024.116663>.
- Effrosynidis, D., Sylaios, G., Arampatzis, A., 2024. The Effect of Training Data Size on Disaster Classification from Twitter. *Information*, 15, 393. <https://doi.org/10.3390/info15070393>.
- Papaevangelou, V., Bakalakou, K.A., Ntislidou, C., Latinopoulos, D., Kokkos, N., Zachopoulos, K., Zoidou, M., Makri, A., Azis, K., Ioannidou, N., et al., 2024. The Spring to Coast Approach in Small-Scale Catchments and Adjacent Coastal Zone. *Water*, 16, 259. <https://doi.org/10.3390/w16020259>.
- Nezhad, M.M., Neshat, M., Sylaios, G., Astiaso Garcia, D., 2024. Marine energy digitalization digital twin's approaches. *Renewable and Sustainable Energy Reviews*, 191, 114065. <https://doi.org/10.1016/j.rser.2023.114065>.
- Tsikliras, A.C., Coro, G., Daskalov, G., Grémillet, D., Scotti, M., Sylaios, G., 2023. Editorial: Ecocentric fisheries management in European seas: Data gaps, base models and initial assessments, volume I. *Front. Mar. Sci.* 10:1295733. Doi: 10.3389/fmars.2023.1295733.
- Keramea, P., Kokkos, N., Zodiatis, G., Sylaios, G., Coppini, G., Peña, J., Benjumeda, P., Sepp Neves, A.A., Lardner, R., Liubartseva, S., Soloviev, D., Scuro, M., Nikolaidis, A., Viola, F., 2023. Satellite imagery in evaluating oil spill modelling scenarios for the Syrian oil spill crisis, summer 2021. *Front. Mar. Sci.* 10:1264261. doi: 10.3389/fmars.2023.1264261.
- Farhat, L., Manakos, I., Sylaios, G., Kalaitzidis, C. A., 2023. Modified Version of the Direct Sampling Method for Filling Gaps in Landsat 7 and Sentinel 2 Satellite Imagery in the Coastal Area of Rhone River. *Remote Sens.* 2023, 15, 5122. <https://doi.org/10.3390/rs15215122>.
- Keramea, P., Kokkos, N., Zodiatis, G., Sylaios, G., 2023. Modes of Operation and Forcing in Oil Spill Modeling: State-of-Art, Deficiencies and Challenges. *Journal of Marine Science and Engineering*, 11, 1165. <https://doi.org/10.3390/jmse11061165>.
- Kokkos, N., Papadopoulou, A., Zachopoulos, K., Zoidou, M., Beguery, L., Margirier, F., Sylaios, G., 2023. Hydrography and deep chlorophyll maximum patterns of the Athos Basin and the Thracian Sea continental shelf (North Aegean Sea) combining glider and satellite observations. *Continental Shelf Research*, 105029, <https://doi.org/10.1016/j.csr.2023.105029>.
- Markou, D., Gikas, G.D., Margaritou, I.-E., Sylaios, G., Tsihrintzis, V.A., 2023. Design and construction cost of two constructed wetlands treating municipal wastewater. *Water Utility Journal*, 30-31, 59-68.
- Amini, E., Nasiri, M., Pargoo, N.S., Mozhgani, Z., Golbaz, D., Baniesmaeil, M., Nezhad, M.M., Neshat, M., Astiaso Garcia, D., Sylaios, G., 2023. Design Optimization of Ocean Renewable Energy Converter Using a Combined Bi-level Metaheuristic Approach. *Energy Conversion and Management: X*, 19, 100371, <https://doi.org/10.1016/j.ecmx.2023.100371>.
- Arslan, N., Majidi Nezhad, M., Heydari, A., Astiaso Garcia, D., Sylaios, G., 2023. A Principal Component Analysis Methodology of Oil Spill Detection and Monitoring Using Satellite Remote Sensing Sensors. *Remote Sens.*, 15, 1460. <https://doi.org/10.3390/rs15051460>.
- Effrosynidis, D., Spiliotis, E., Sylaios, G., Arampatzis, A., 2023. Time Series and Regression Methods for Univariate Environmental Forecasting: An Empirical Evaluation. *Science of the Total Environment*, 875, 162580, <https://doi.org/10.1016/j.scitotenv.2023.162580>.
- Effrosynidis, D., Sylaios, G., Arampatzis, A., 2022. Exploring climate change on Twitter using seven aspects: Stance, sentiment, aggressiveness, temperature, gender, topics, and disasters. *PLoS ONE* 17(9), e0274213. <https://doi.org/10.1371/journal.pone.0274213>.
- Effrosynidis, D., Karasakalidis, A.I., Sylaios, G., Arampatzis, A., 2022. The Climate Change Twitter Dataset. *Expert Systems with Applications*, <https://doi.org/10.1016/j.eswa.2022.117541>.

- Zachopoulos, K., Kokkos, N., Elmasides, C., Sylaios, G., 2022. Coupling Hydrodynamic and Energy Production Models for Salinity Gradient Energy Assessment in a Salt-Wedge Estuary (Strymon River, Northern Greece). *Energies* 15, 2970. <https://doi.org/10.3390/en15092970>.
- Pérez Gómez, B., Vilibić, I., Šepić, J., Međugorac, I., Ličer, M., Testut, L., Fraboul, C., Marcos, M., Abdellaoui, H., Barbalić, D., Castaño, A., Čupić, S., Drago, A., Fraile, M.A., Galliano, D.A., Gauci, A., Gloginja, B., Martín Guijarro, V., Jeromel, M., Larrad Revuelto, M., Lazar, A., Haktan Keskin, I., Medvedev, I., Menassri, A., Meslem, M.A., Mihanović, H., Morucci, S., Niculescu, D., Manuel Quijano de Benito, J., Pascual, J., Palazov, A., Picone, M., Raicich, F., Said, M., Salat, J., Sezen, E., Simav, M., Sylaios, G., Tel, E., Zaimi, K., Zodiatis, G., 2022. Coastal Sea Level Monitoring in the Mediterranean and Black Seas. *Ocean Science, Special Issue: Advances in interdisciplinary studies at multiple scales in the Mediterranean Sea*: <https://doi.org/10.5194/os-18-997-2022>.
- Keramea, P., Kokkos, N., Gikas, G.D., Sylaios, G., 2022. Operational modeling of North Aegean oil spills forced by real-time met-ocean forecasts. *Journal of Marine Science and Engineering* 10, 411. <https://doi.org/10.3390/jmse10030411>.
- Zoidou, M., Kokkos, N., Sylaios, G., 2022. Dynamics of water, salt and nutrients exchange at the inlets of three coastal lagoons. *Journal of Marine Science and Engineering* 10, 205. <https://doi.org/10.3390/jmse10020205>.
- Majidi Nezhad, M., Neshat, M., Piras, G., Astiaso Garcia, D., Sylaios, G., 2022. Marine Online Platforms of Services to Public End-Users—The Innovation of the ODYSSEA Project. *Remote Sensing*, 14, 572. <https://doi.org/10.3390/rs14030572>
- Dimarchopoulou, D., Tsagarakis, K., Sylaios, G., Tsikliras, A., 2022. Ecosystem trophic structure and fishing effort simulations of a major fishing ground in the northeastern Mediterranean Sea (Thermaikos Gulf). *Estuarine, Coastal & Shelf Science* 264, 107667, <https://doi.org/10.1016/j.ecss.2021.107667>.
- Navrozidou, E., Remmas, N., Melidis, P., Sylaios, G., & S. Ntougias, 2021. Biotreatment efficiency, degradation mechanism and bacterial community structure in an immobilized cell bioreactor treating triclosan-rich wastewater. *Environmental Technology*. <https://doi.org/10.1080/09593330.2021.2007287>.
- Zerva, I., Remmas, N., Melidis, P., Sylaios, G., Stathopoulou, P., Tsiamis, G., Ntougias, S., 2021. Biotreatment, microbial community structure and valorization potential of pepper processing wastewater in an immobilized cell bioreactor. *Waste and Biomass Valorization*, <https://doi.org/10.1007/s12649-021-01568-x>.
- Kamidis, N., Koutrakis, E., Sapounidis, A., Sylaios, G., 2021. Impact of River Damming on Downstream Hydrology and Hydrochemistry : The Case of Lower Nestos River Catchment (NE. Greece). *Water* 13, 2832. <https://doi.org/10.3390/w13202832>.
- Zoidou, M. & G. Sylaios (2021). Ecological risk assessment of heavy metals in the sediments of a Mediterranean lagoon complex. *Journal of Environmental Health Science and Engineering*, 19, 1835-1849. <https://doi.org/10.1007/s40201-021-00739-1>.
- Kokkos, N., Zoidou, M., Zachopoulos, K., Majidi Nezhad, M., Astiaso Garcia, D., Sylaios, G., 2021. Wind climate and wind power resource assessment based on gridded scatterometer data: A Thracian Sea case study. *Energies*, 14(12), 3448. <https://doi.org/10.3390/en14123448>.
- Tsakmakis, I., Gikas, G., Sylaios, G., 2020. Integration of Sentinel-derived NDVI to reduce uncertainties in the operational field monitoring of maize. *Agricultural Water Management* 225, 106998, <https://doi.org/10.1016/j.agwat.2021.106998>.
- Majidi Nezhad, M., Neshat, M., Groppi, D., Marzioletti, P., Heydari, A., Sylaios, G., Astiaso Garcia, D., 2021. A primary wind farm site assessment using reanalysis data: A case study for Samothraki Island. *Renewable Energy* 172, 667-679. <https://doi.org/10.1016/j.renene.2021.03.045>
- Dimarchopoulou, D., Keramidas, I., Sylaios, G. & A. Tsikliras (2021). Ecotrophic effects of fishing across the Mediterranean Sea. *Water* 13, 482. <https://doi.org/10.3390/w13040482>.
- Keramea, P., Spanoudaki, K., Zodiatis, G., Gikas, G., & G. Sylaios (2021). Oil Spill Modeling: A Critical Review on Current Trends, Perspectives and Challenges. *Journal of Marine Engineering and Science* 9, 181. <https://doi.org/10.3390/jmse9020181>.
- Zerva, I., Remmas, N., Kagkalou, I., Melidis, P., Ariantsi, M., Sylaios G. & S. Ntougias (2021). Effect of chlorination on the microbiological effluent quality of a full-scale wastewater treatment plant through assessment of bacterial communities by high-throughput amplicon sequencing. *Life* 11(1), 68. <https://doi.org/10.3390/life11010068>.
- Effrosynidis, D., Tsikliras, A., Arampatzis, A. & G. Sylaios (2020). Species Distribution Modelling via Feature Engineering and Machine Learning for Pelagic Fishes in the Mediterranean Sea. *Applied Sciences* 10, 8900. <https://doi.org/10.3390/app10248900>.
- Papaki, D., Kokkos, N. & G. Sylaios (2020). A Fuzzy Inference System for Seagrass Distribution Modeling in the Mediterranean Sea: A First Approach. *Water* 12, 2949. <https://doi.org/10.3390/w12102949>.
- Zachopoulos, K., Kokkos, N. & G. Sylaios (2020). Salt wedge intrusion modeling along a Mediterranean river mouth. *Regional Studies in Marine Science* 39, 101467. <https://doi.org/10.1016/j.risma.2020.101467>.
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